

Institute of Transportation Engineers



May 28–30, 2014

Austin, Texas



SCHEDULE AT A GLANCE

WEDNESDAY, MAY 28		
8:30 a.m. – 7:00 p.m.	Registration Desk Open	Ballroom Pre-function Area
9:00 a.m. – 12:00 p.m.	Audible Pedestrian Signal Technical Training	Capitol Ballroom A-D
9:00 a.m. – 12:00 p.m.	City of Austin Bike Tour	Off-Site (<i>meet outside hotel</i>)
9:00 a.m. – 12:00 p.m.	Inaugural TexITE Shoot-Out	Off-Site (<i>transportation on your own to Capital City Clays</i>)
10:00 a.m. – 5:00 p.m.	Highway Products Group Setup	Capitol Ballroom E-H
1:00 p.m. – 4:00 p.m.	Blind and Visually Impaired Technical Training	Capitol Ballroom A-D
1:00 p.m. – 4:00 p.m.	Boardwalk Trail at Lady Bird Lake Technical Tour	Off-Site (<i>meet in lobby; shuttle leaves at 1:00 p.m.</i>)
1:30 p.m. – 4:30 p.m.	District Board Meeting	Bickler Room (4th Floor)
5:00 p.m. – 6:00 p.m.	Professional Ethics Seminar	Capitol Ballroom A-D
6:00 p.m. – 8:00 p.m.	Highway Products Group Exhibits/Reception	Capitol Ballroom E-H
8:00 p.m. – 12:00 a.m.	TexITE Texas Hold 'Em Card Tournament	Capitol Ballroom A-D
THURSDAY, MAY 29		
7:30 a.m. – 5:00 p.m.	Registration Desk Open	Ballroom Pre-function Area
8:30 a.m. – 12:00 p.m.	Highway Products Group Exhibits	Capitol Ballroom E-H
8:00 a.m. – 9:30 a.m.	Board Meeting (if needed)	Bickler Room (4th Floor)
8:00 a.m. – 9:30 a.m.	Committee Meetings	Tannehill Room
9:30 a.m. – 11:30 a.m.	PLENARY SESSION 1: Interacting with Policy Makers	Capitol View Terrace North and South
12:00 p.m. – 1:15 p.m.	Kickoff Luncheon	Capitol Ballroom A-D
1:30 p.m. – 3:00 p.m.	PLENARY SESSION 2: Traffic Bowl	Capitol Ballroom A-D
3:00 p.m. – 3:30 p.m.	Student Poster Session & Break	Ballroom Pre-function Area
3:30 p.m. – 5:00 p.m.	SESSION 3A: What the Tech!	Capitol View Terrace North and South
3:30 p.m. – 5:00 p.m.	SESSION 3B: Round and Round We Go	Creekside I and II (2nd Floor)
6:00 p.m. – 10:00 p.m.	TexITE 60th Anniversary Celebration Thursday Night Social	Meet at Stubb's (8th St. and Red River)
10:00 p.m. – 1:00 a.m.	Thursday Late-Night Social	Location TBD. Will gather and leave from Stubb's.
FRIDAY, MAY 30		
8:00 a.m. – 12:00 p.m.	Registration Desk Open	Ballroom Pre-function Area
7:00 a.m. – 8:30 a.m.	Consultant's Council Business Meeting	Bickler Room (4th Floor)
8:00 a.m. – 8:30 a.m.	Breakfast	Ballroom Pre-function Area
8:30 a.m. – 10:00 a.m.	SESSION 4A: Our State, Our Region — Regional Planning	Capitol View Terrace North and South
8:30 a.m. – 10:00 a.m.	SESSION 4B: The Future in Transportation	Creekside I and II (2nd Floor)
10:00 a.m. – 10:30 a.m.	Student Poster Session & Break	Ballroom Pre-function Area
10:30 a.m. – 12:00 p.m.	SESSION 5A: DMS, ATMS, ITS, Oh My!	Capitol View Terrace North and South
10:30 a.m. – 12:00 p.m.	SESSION 5B: Letgo My NACTO!	Creekside I and II (2nd Floor)
12:00 p.m. – 1:30 p.m.	Business Luncheon	Capitol Ballroom A-D

TECHNICAL PROGRAM

THURSDAY, MAY 29

9:30 a.m. – 11:30 a.m.

PLENARY SESSION 1

Interacting with Policy Makers

Moderated by Robert Wunderlich, Texas A&M Transportation Institute

- **Will Conley**, Hays County
- **Bob Daigh**, Williamson County
- **Robert Spillar**, City of Austin
- **Richard Suttle**, Armbrust & Brown, PLLC
- **Jody Short**, City of Colleyville/Lee Engineering
- **Beverly Silas**, CapMetro/Beverly Silas and Associates

1:30 p.m. – 3:00 p.m.

PLENARY SESSION 2

Traffic Bowl

Your host with the most: Gary Thomas, Texas A&M Transportation Institute

3:00 p.m. – 3:30 p.m.

STUDENT POSTER SESSION

- ▲ **Empirical Measurements of Travelers' Value of Travel Time Reliability**
Santosh Rao, Texas A&M University
- ▲ **Safety Assessment of Interstate 35 in Austin, Texas (Travis County)**
Yanfen Zhou, Texas A&M University
- ▲ **Effect of Driving Behaviors on Emissions in Eco-driving at Intersections**
Peijia Tang, Texas Southern University
- ▲ **Application of the City of Houston's Transit Corridor Development Ordinance along METRO's Light-Rail Corridors**
Walter Council, Texas Southern University
- ▲ **Impacts of V2I Communication System on Brake Response and the Change of Vehicle's Kinetic Energy**
Qing Li, Texas Southern University
- ▲ **A Transit Route Choice Model for Application in Dynamic Transit Assignment**
Tyler Beduhn, University of Texas at Austin
- ▲ **An Empirical Delay Model for Dynamic Traffic Assignment Applications**
Jake Gutekunst, University of Texas at Austin

TECHNICAL PROGRAM

THURSDAY, MAY 29 (continued)

3:30 p.m. – 5:00 p.m.

CONCURRENT SESSIONS: 3A AND 3B

3A: What the Tech!

Moderated by Linc Wright, EHRC

▲ PLM Technology: The Elimination of Pulling Power/Coax Cables for VIVDS Intersections

Mike Hutchison, ITS Plus

▲ High-Density Cabinet — 337 HDC/ATC with HD Components

Arnold McLaughlin, Texas Highway Products

▲ Hybrid Crosswalk (HAWK) and Emergency Vehicle Hybrid Systems

Bill Marshall, Eltec

▲ Emerson (aka EDC) Continues to "Surge" Ahead

Gary Nesbitt, Emerson Network Power

3B: Round and Round We Go

Moderated by Norman Hogue, Dunaway

▲ A Review of Speeds at Roundabouts in North Texas

John Denholm, Lee Engineering

▲ Fort Worth Roundabout Program

Alonzo Linan, City of Fort Worth, and Chris Bosco, Freese and Nichols

▲ Roundabout Design Heuristics

Mark Lenters, GHD, Inc.

▲ Roundabout Planning Along I-35 in Austin

Steve Miller, HNTB

TECHNICAL PROGRAM

FRIDAY, MAY 30

8:30 a.m. – 10:00 a.m.

CONCURRENT SESSIONS: 4A AND 4B

4A: Our State, Our Region – A Look at Regional Planning Across the State

Moderated by Matt Johnson, Johnson Traffic Design

▲ Boom, Bust or Somewhere in Between?

Cameron Walker, Midland Odessa Transportation Organization

▲ Our Great Region 2040 Plan

Jeff Taebel, Houston-Galveston Area Council

▲ Use of Dynamic Traffic Assignment for Planning in Williamson County

Jennifer Duthie, Center for Transportation Research, and Cynthia Long, Williamson County

▲ Regional Planning for Operations in Dallas-Fort Worth

Natalie Bettger, North Central Texas Council of Governments

4B: The Future in Transportation

Moderated by James Kratz, Jacobs

▲ Automated Vehicles: The Future Is Near

Jason Wagner, Texas A&M Transportation Institute

▲ Gazing at Rapid Flashing Beacons: Preliminary Findings from FHWA Studies

Kay Fitzpatrick, Texas A&M Transportation Institute

▲ Variable Speed Limit Pilot Project

Darren McDaniel, Derryk Blasig/Dustin Wiggins, Texas Department of Transportation

▲ SwRI Connected Vehicle Affiliated Test Bed

Mike Brown, Southwest Research Institute

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: DMS, ATMS, ITS, Oh My!

Moderated by Brian Moen, City of Frisco

▲ An Innovative Approach to Proactively Evaluate Safety Performance of Future Transportation Projects

Koushik Arunachalam, Arcadis US

▲ Automated Traffic Signal Performance Measures

Jamie Mackey, Utah Department of Transportation

▲ 2014 Survey Results of DFW Area Incident Management

Jory Dille, North Central Texas Council of Governments

▲ Flower Mound ATMS

Matthew Hotteling, Town of Flower Mound

5B: Letgo My NACTO!

Moderated by Gary Schatz, City of Austin

▲ Introduction to Complete Streets

Jeffrey Riegner, Whitman, Requardt and Associates

▲ Applying NACTO's Urban Bikeway Design Guide

Nathan Wilkes, City of Austin

▲ Applying NACTO's Urban Street Design Guide

Jim Robertson, City of Austin

PROGRAM HIGHLIGHTS

Audible Pedestrian Signal Technical Training (sold out)

Wednesday, 9:00 a.m. – 12:00 p.m.

The session on accessible pedestrian signals (APSs) will begin with a classroom presentation followed by a trip to a signalized intersection for a demonstration of the installation of an APS system. The classroom portion will include information on the equipment needed and steps required to install an APS at an existing signal. It will also include a discussion of the considerations for programming the operation of an APS. The field visit will allow participants to see the steps involved in the installation and programming of an APS system at an existing signal.

City of Austin Bike Tour (sold out)

Wednesday, 9:00 a.m. – 12:00 p.m.

The tour will include the city's first demonstration rain garden at the One Texas Center, multiple cycletracks (physically separated bicycle lanes), and traffic calming structures. Participants on the tour will experience lessons learned from City of Austin staff who work to implement a complete street network.



Blind and Visually Impaired Technical Training (sold out)

Wednesday, 1:00 p.m. – 4:00 p.m.

As engineers, we all have an obligation to better understand the needs and issues of the blind and visually impaired community. The Texas School for the Blind and Visually Impaired will provide orientation and mobility awareness training. The training will include classroom instruction as well in in-field orientation and mobility exercises.

Boardwalk Trail at Lady Bird Lake Technical Tour

Wednesday, 1:00 p.m. – 4:00 p.m.

The Boardwalk Trail at Lady Bird Lake will connect the current end of the trail by the Austin American Statesman Building to Lakeshore Park, closing the southeastern gap of the hike and bike trail. The boardwalk surface will span 1.2 miles and will typically be 5 to 6 feet above the normal lake elevation, with the underside of the structural spans at least 3½ feet above the water.

Inaugural TextITE Shoot-Out (pre-registration required)

Wednesday, 9:00 a.m. – 12:00 p.m.

Join members and vendors for the morning at Capitol City Trap and Skeet Club, which has two 12-station walk-through sporting clay courses — each shooting station simulates different hunting situations. You will enjoy shooting an overhead crow flight, driven pheasant, double rabbits racing across the field, springing teal, sporty dove, crazy quail and many other exciting challenges.

Included in the registration fee are 50 targets, breakfast tacos from Rudy's, a tournament hat, door prizes and trophies. Not included are the shotgun and 50 shells (minimum — more if practice/warm-up shooting is desired). Transportation is not provided.

Location: Capitol City Trap and Skeet Club, 8707 Lindell Lane, Austin, TX 78714

Professional Ethics Seminar

Steven D. Hofener, P.E.,
PTOE, Principal,
Traffic Engineering
Consultants, Inc.
Wednesday,
5:00 p.m. – 6:00 p.m.

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

PROGRAM HIGHLIGHTS

Keynote Speaker

Senator Kirk Watson

Thursday, 12:00 p.m. – 1:15 p.m.

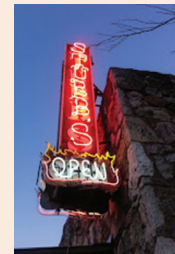
Sen. Kirk Watson is a former Austin mayor first elected to represent District 14 in 2006. He is vice chairman of the Senate Committee on Higher Education and serves on the Business and Commerce, Nominations, Transportation, and Economic Development Committees.

Sen. Watson is a past chair of the Capital Area Metropolitan Planning Organization, the primary transportation planning agency for Central Texas. He has given a voice to transportation funding challenges and opportunities for the state of Texas.



TextITE 60th Anniversary Celebration Thursday Night Social

Thursday, 6:00 p.m. – 10:00 p.m.



Our Thursday night social will be held at Stubb's BBQ. Stubb's is the legendary live music venue and eatery located in the city that many consider the live music capital of the world.

The story started with the opening of the first restaurant and live music venue back in the late 1960s in Lubbock. Word about the delicious food and top-quality live entertainment spread like wildfire and thus the legend was born. TextITE will take over Stubb's for one night only with cold beer, great food and live music on the stage by the Roosevelts. You won't want to miss this 60th anniversary celebration.

Location: Stubb's BBQ, 801 Red River St., Austin, TX 78701



Thursday Late-Night Social

Thursday, 10:00 p.m. – 1:00 a.m.

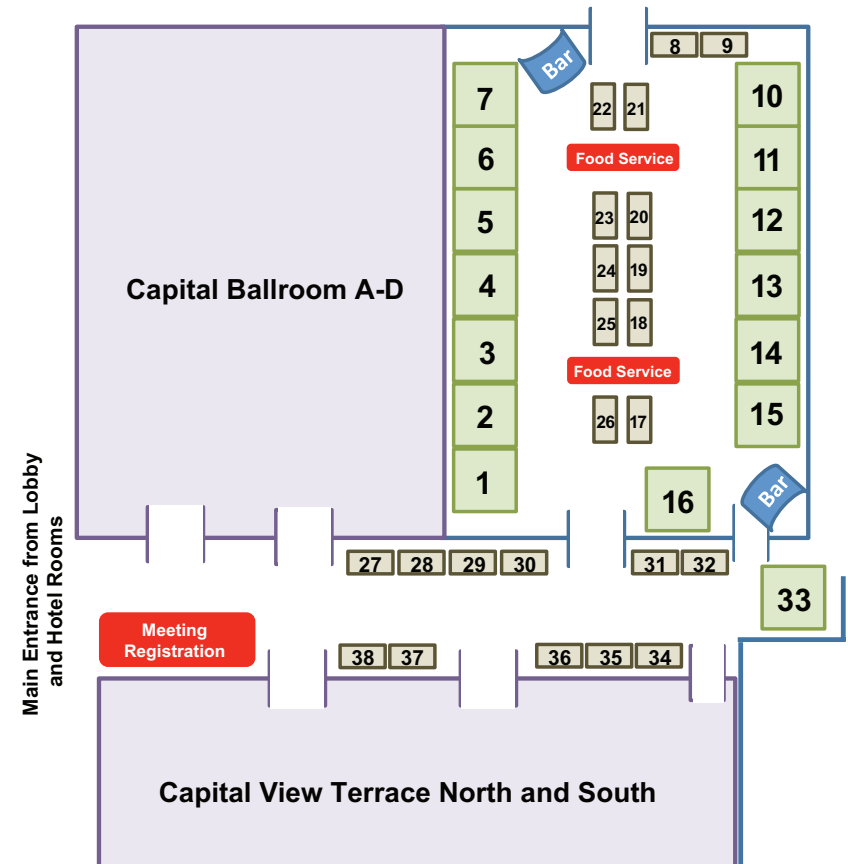
For this meeting, the Younger Members Committee will host a photo scavenger hunt for all meeting attendees.

Participants will team up into groups of four and have 60 minutes to photograph as many items on the scavenger hunt list as possible. Afterwards, the winning team will be handsomely rewarded with gift cards at the designated home-base bar (TBA).

All activities will take place within walking distance of the hotel and the evening social event.

NOTES

HIGHWAY PRODUCTS GROUP EXHIBITORS AND MAIN FLOOR



COMPANY	BOOTH	COMPANY	BOOTH
C J Hensch & Associates, Inc.	16	Pexco & Davidson Traffic Control Products	3
Centerline Supply	6	Polara	10
Consolidated Traffic Controls, Inc.	12	PTV Group	24
Control Technologies, Inc.	7	Proxim Wireless	28
Core Tec Communications, LLC	19	Quality Counts	20
Dialight Inc.	38	RTC Manufacturing, Inc.	11
Dynamic Vision Co., Inc.	31	Siemens Industry, Inc./RUGGEDCOM	18
ELTEC	23	Sky Bracket	21
Emerson Network Power Surge Protection	5	SW Section IMSA	9
EtherWAN Systems, Inc.	36	Texas Highway Products, Ltd.	1 and 2
INQ-Energy, Inc.	33	TKH Security Solutions	30
Iteris	13	Trafficware Group, Inc.	14
ITS Plus, Inc.	15	TransCore	4
Leotek Electronics	32	TraStar, Inc.	34
McCain, Inc.	29	Twincrest Technologies	25
Nikkalite Reflective Division	22	Valmont Structures	8
Paradigm Traffic Systems	17 and 26	Wildcat Electric Supply	37

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 the activity include technical, ethical or managerial content?

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

1. Certify on the renewal statement that you have completed the Continuing Education Program (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.



NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

TexITE WOULD LIKE TO THANK OUR THURSDAY NIGHT SOCIAL SPONSORS:

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The University of Texas at Austin

Walter P. Moore



The 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.



TexITE is now on **Twitter @TexasITE**. If you are tweeting from the meeting, please include our handle or hashtag **#TexITEconf**.



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