

CONNECTING TEXANS

90th ANNUAL TRANSPORTATION SHORT COURSE

* * * * * * * *

October 10–12, 2016 TEXAS A&M UNIVERSITY

OPENING SESSION

TUESDAY

OCTOBER 11

RUDDER AUDITORIUM 8:30 A.M. – NOON

Posting	of	the	Col	ors
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Invocation

Video Presentation

Campus Welcome

Remarks on Behalf of the Texas A&M Transportation Institute

Presentation of Awards

Remarks on Behalf

of Transportation

Remarks from the

Extra Mile Awards

Commission

Texas Transportation

of the Texas Department

Dennis L. Christiansen, P.E., Ph.D. • Dewitt C. Greer Award

Texas A&M Transportation

Texas A&M University Corps of Cadets Color Guard

Texas Department of Transportation Video

Michael K. Young, J.D.

Texas A&M University

Agency Director

Institute

Dennis L. Christiansen, P.E., Ph.D.

Corps Chaplain

President

- Gibb Gilchrist Award
- Luther DeBerry Award
- Russell H. Perry Award
- Raymond E. Stotzer, Jr., Award

BREAK

James Bass Executive Director Texas Department of Transportation

Laura Ryan Commissioner Texas Transportation Commission

Texas Department of Transportation

In Memoríam

Farland Bundy Retired 1984 Internal Review and Audit Division Director

William C. "Bill" Garbade *Retired 2003 Austin District Engineer*

Tommie Howell Retired 1993 Automation Division Director

Bill Lancaster Retired 1993 Design Division Director

Zane Webb Retired 2009 Maintenance Division Director

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MONDAY	OCTOBER 10

ETHICS FOR TRANSPORTATION PROFESSIONALS

ROOM: BRAZOS COUNTY EXPO COMPLEX TEXAS BALLROOMS

3:30 - 4:30 p.m. SESSION 1: TxDOT Only Ethics for the Practicing Engineer– Second-Order Responsibilities for Designers of Tomorrow's Engineered Systems* Ray W. James, P.E., Ph.D., Texas A&M University

5:00 - 6:00 p.m. SESSION 2: Open to All Ethics for the Practicing Engineer– Second-Order Responsibilities for Designers of Tomorrow's Engineered Systems* Ray W. James, P.E., Ph.D., Texas A&M University

*This course was designed to satisfy the Texas SBPE requirements.

ALTERNATIVE PROJECT DELIVERY

ROOM: RUDDER THEATRE

OCTOBER 11

UESDAY

1:30

1:50

2:20

3:00

3:30

4:00

Program and Session Co-Chairs:
Kristi Flagg, P.E.,
Project Finance,
Debt and Strategic Contracts Division, TxDOT

Jason Crawford, P.E., TTI

	Moderator: Randall Grones, P.E., Project Finance, Debt and Strategic Contracts Division, TxDOT
- 1:50 p.m.	Harbor Bridge Sustainability Carol Luschen, P.E., Project Finance, Debt and Strategic Contracts Division, TxDOT
	Linda Figg, FIGG Bridge Group
- 2:20 p.m.	Houston: The Past, Present and Future Eliza Paul, P.E., Houston District, TxDOT
- 3:00 p.m.	What Are They Doing in Florida? Larry Ritchie, P.E., Strategic Initiatives, Florida Department of Transportation
	Phil Schwab, P.E., P3 Initiatives, RS&H
	Mike Spain, The Lane Construction Corporation
- 3:30 p.m.	BREAK
	Moderator: Matt McCarter, Project Finance, Debt and Strategic Contracts Division, TxDOT
- 4:00 p.m.	Successful Solutions for Project Implementation: Submittal Reviews in SharePoint Jeannie Arellano, Project Finance, Debt and Strategic Contracts Division, TxDOT
- 4:30 p.m.	Capital Maintenance Agreements: The Good, the Bad and the Ugly Beau Buchanan, P.E., Project Finance, Debt and Strategic Contracts Division, TxDOT
	Mike Midkiff, P.E., Project Finance, Debt and Strategic Contracts Division, TxDOT
	Mark Taylor, P.E., Ramos Consulting, LLC
- 5:00 p.m.	What You Didn't Know to Ask About Project Financing Jennifer Wright,

Project Finance, Debt and Strategic Contracts

Division, TxDOT

TUESDAY OCTOBER 11

CONSTRUCTION I

R00M: MSC 2300 C

Program and Session Co-Chairs:

Gina Gallegos, P.E., San Antonio District, TxDOT Stephen Sebesta, TTI Jon Epps, P.E., Ph.D., TTI

Moderator: Stephen Sebesta, TTI

1:30 - 2:00 p.m.Use of Pre-cast Concrete Panels for
Rural Intersections
Greg Biediger, P.E.,
San Antonio District, TxDOT

2:00 - 2:30 p.m. New Binder Specification for Seal Coats Amy Epps Martin, P.E., Ph.D., TTI

2:30 – 3:00 p.m. Arc of Innovation Documentary Creating the West 7th Street Bridge in Fort Worth Jodi Hodges, Fort Worth District, TxDOT

3:00 – 3:30 p.m. BREAK

3:30 – 4:00 p.m. Full-Depth Recycling Richard Izzo, P.E., Construction Division, TxDOT

Tom Scullion, P.E., TTI

4:00 - 4:30 p.m. Inspection with Thermal Imaging Camera Gisel Carrasco, P.E., Construction Division, TxDOT

> Ryan Barborak, P.E., Construction Division, TxDOT

4:30 – 5:00 p.m. Jacking Reinforced Concrete Pipe Art Daniel, AR Daniel Construction Services, Inc.

TUESDAY OCTOBER 11

1:30 - 1:50 p.m.

1:50 - 2:20 p.m.

2:20 - 3:00 p.m.

3:00 - 3:30 p.m.

3:30 - 4:00 p.m.

4:00 - 4:30 p.m.

4:30 - 5:00 p.m.

DESIGN

ROOM: RUDDER AUDITORIUM

Program and Session Co-Chairs:

Bill Brudnick, P.E., Houston District, TxDOT Marcus Brewer, P.E., TTI

USE OF TECHNOLOGY IN DESIGN

Moderator: Max Proctor, Jr., P.E., CFM, Design Division, TxDOT

TxDOT's ProjectWise Implementation Peter Sissons, Information Management Division, TxDOT

Drone Activities at TxDOT Jonathan Martin, CP, Design Division, TxDOT

Exploring Efficiencies with 3D Design in Construction: Panel Discussion Eduardo "Eddie" Acosta, Jr., P.E., Design Division, TxDOT

Brent Hillebrenner, P.E., Design Division, TxDOT

Robert Nava, Williams Brothers Construction Co., Inc.

BREAK

PAST, PRESENT AND FUTURE

Moderator: Andy Mao, P.E., Houston District, TxDOT

History of Texas Highway Design Roger Polson, TxDOT (Retiree)

Findings from Research on Access Management Related to Raised Medians Bill Frawley, TTI

Current Trends in Automated Vehicles and Potential Effects on Future Design Jason Wagner, TTI

ENVIRONMENTAL

ROOM: RUDDER FORUM

Program and Session Co-Chairs:

Dan Perge, P.E., Dallas District, TxDOT Joe Zietsman, P.E., Ph.D., TTI

Moderator: Carlos Swonke, P.G., Environmental Affairs Division, TxDOT

1:30 – 2:00 p.m. Harbor Bridge Project and Civil Rights Lessons Learned Rich O'Connell, General Counsel Division, TxDOT

> Christopher Amy, Corpus Christi District, TxDOT

2:00 - 2:30 p.m. Early Environmental Clearance for ROW Acquisition/Changes in Environmental Rules Patrick Lee, Environmental Affairs Division, TxDOT

> **Sue Theiss,** Environmental Affairs Division, TxDOT

2:30 - 3:00 p.m. NEPA Assignment Update Carlos Swonke, Environmental Affairs Division, TxDOT

> **Sue Theiss,** Environmental Affairs Division, TxDOT

3:00 – 3:30 p.m. BREAK

3:30 - 4:00 p.m. Noise Walls and HB 790: Assessing Noise Mitigation Ray Umscheid, Environmental Affairs Division, TxDOT

Jason Crawford, P.E., TTI

4:00 - 4:30 p.m. Migratory Birds and Construction/ Bats and Bridges Stirling Robertson, Ph.D., Environmental Affairs Division, TxDOT

> John Young, Jr., Environmental Affairs Division, TxDOT

4:30 – 5:00 p.m. History of Transportation and the Environment at TxDOT Bruce Jensen, Environmental Affairs Division, TxDOT

> Laura Cruzada, Environmental Affairs Division, TxDOT

MAINTENANCE & PAVEMENT MANAGEMENT

ROOM: MSC 2406 A&B

Program and Session Co-Chairs:

Miguel Arellano, P.E., Austin District, TxDOT Tom Freeman, TTI Jon Epps, P.E., Ph.D., TTI

Moderator: Michael Lee, Maintenance Division, TxDOT

Panel: Best Practices for Preparation and Resurfacing for Preventative Maintenance David Morren, P.E., Dallas District, TxDOT

Tomas Trevino, P.E., Corpus Christi District, TxDOT

Carl Johnson, P.E., Brownwood District, TxDOT

Predicting & Managing Energy-Sector Development for Maintenance Purposes Miguel Arellano, P.E., Austin District, TxDOT

Updates with Developments in Pavement Management Magdy Mikhail, P.E., Maintenance Division, TxDOT

BREAK

Moderator: Ricardo Gonzales, P.E., Maintenance Division, TxDOT

3:30 – 4:00 p.m. Best Practices for Permit Management Jeff Parker.

Wichita Falls District, TxDOT

Henry "Jay" Fojtik, P.E., San Antonio District, TxDOT

Rex Costley, P.E., Pharr District, TxDOT

Emerging Technologies and Techniques for Routine and Preventative Maintenance Tom Scullion, P.E., TTI

4:15 - 5:00 p.m.

4:00 - 4:15 p.m.

TUESDAY OCTOBER 11

1:30 - 2:15 p.m.

2:15 - 2:30 p.m.

2:30 - 3:00 p.m.

3:00 - 3:30 p.m.

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Lessons Learned from 2016 Emergency Events – Ice, Snow and Floods Blair Johnson, P.E., Amarillo District, TxDOT

Chad Windham, P.E., Odessa District, TxDOT

Mark Shafer, P.E., Bryan District, TxDOT

Mark Wooldridge, P.E., Houston District, TxDOT

Walter Hambrick, Houston District, TxDOT

TUESDAY OCTOBER 11

MATERIALS I

S S	R00M: MSC 2300 A&B	5	R00M: MSC 2300 D&E
	Program and Session Co-Chairs:		Program and Session Co-Chairs:
	Mike Bostic, P.E., Fort Worth District, TxDOT		Rebecca Wells, P.E.,
	David Newcomb, P.E., Ph.D., TTI		Atlanta District, TxDOT
	Andrew Wimsatt, P.E., Ph.D., TTI		Scott Cooner, P.E., TTI
	Edith Arambula, P.E., ⊺⊺l		Ed Seymour, P.E., Ph.D., TTI
	Moderator: Greg Cedillo, P.E., Fort Worth District, TxDOT	1:30 – 2:00 p.m.	Moderator: Ugonna Ughanze, P.E., Houston District, TxDOT Pavement Markings – Past, Present and Future
1:30 - 2:00 p.m.	Historical Perspectives of TxDOT Materials David Bass, P.E.,		Paul Carlson, P.E., Ph.D., TTI
	TxDOT (Retiree) Darren Hazlett, P.E., Construction Division, TxDOT	2:00 - 2:30 p.m.	Structure Pavement Markings Herbert Bickley, P.E., Stripe-A-Zone
2:00 - 2:30 p.m.	Historical Industry Perspectives Harold Mullen,	2:30 - 3:00 p.m.	Work Zone End of Queue Warning, Waco District Robert Brydia, TTI
	Texas Asphalt Pavement Association		Jacob Chau, P.E., TxDOT
	Lisa Lukefahr, P.E., Executive Director, Texas Concrete Pavement Association	3:00 - 3:30 p.m.	BREAK
2:30 - 3:00 p.m.	The Use of Rejuvenators in Asphalt Mixtures	3:30 - 4:00 p.m.	Kyle Field Transportation Plan Tim Lomax, P.E., Ph.D., TTI
	with High Recycled Materials Content Amy Epps Martin, P.E., Ph.D., TTI	4:00 - 4:30 p.m.	Texas Connected Automated Vehicle Activities Jianming Ma, P.E., TxDOT
3:00 - 3:30 p.m.	BREAK	4:30 - 5:00 p.m.	Truck Platooning in Texas
3:30 - 4:00 p.m.	Seal Coat Binder Specification Jerry Peterson, P.E., Construction Division, TxDOT		Beverly Kuhn, P.E., Ph.D., TTI
	Darren Hazlett, P.E., Construction Division, TxDOT		
4:00 - 4:30 p.m.	Prediction of Clay Swelling and PVR Using Centrifuge Testing Jorge Zornberg, P.E., Ph.D., University of Texas		
4:30 - 5:00 p.m.	Changing Asphalt Supply Bob McGennis, Holly Asphalt		

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TUESDAY OBER 11 TRAFFIC OPERATIONS I

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VED	CT	R00M: MSC 2300 C
~	0	Program and Session Co-Chairs:
		Gina Gallegos, P.E., San Antonio District, TxDOT
		Stephen Sebesta, TTI
		Jon Epps, P.E., Ph.D., TTI
		Moderator: Gina Gallegos, P.E., San Antonio District, TxDOT
8:30 -	9:00 a.m.	Accelerated Construction
		Randy Hopmann, Administration, TxDOT
9:00 -	10:00 a.m.	Blending Consultants, Contractors and TxDOT Workforce for Efficient/Timely Inspection and Response Mike Coward, P.E., San Antonio District, TxDOT
		John Wagner, PE., Lochner
		Paul Kieke, Lochner
		Abel Ortiz-Monasterio, Sundt Construction
10:00 -	- 10:30 a.m.	BREAK
10:30 -	- 11:00 a.m.	Overweight/Oversize Corridors in the Pharr District Daniel Garcia, P.E., Pharr District, TxDOT
11:00 -	· 11:30 a.m.	Use of Geospatial Tools (LIDAR, Photogrammetry and Laser Profile) in Construction Operations Arturo Perez, Construction Division, TxDOT
		Paul Carlson, P.E., Ph.D., TTI
11:30 a	a.m Noon	Keeping Projects Moving Juan Bosquez, P.E., Pharr District, TXDOT

MATERIALS II

ROOM: MSC 2300 A&B

Program and Session Co-Chairs:

Michael Bostic, P.E., Fort Worth District, TxDOT David Newcomb, P.E., Ph.D., TTI Andrew Wimsatt, P.E., Ph.D., TTI

Edith Arambula, P.E., TTI

Moderator:

Edrean Cheng, P.E., Fort Worth District, TxDOT

8:30 - 9:00 a.m.	Next-Generation Concrete Pavement Surface Shane Cossey, Houston District, TxDOT	8:30 - 9
9:00 - 9:30 a.m.	Concrete Overlays Moon Won, Ph.D., Texas Tech University	
9:30 - 10:00 a.m.	Forensic Investigation Tom Scullion, P.E., TTI	9:00 - 9
10:00 - 10:30 a.m.	BREAK	
10:30 - 11:00 a.m.	American Association of State Highway and Transportation Officials — National Transportation Product Evaluation Program Jerry Peterson, P.E., Construction Division, TxDOT	9:30 - 1
11:00 - 11:30 a.m.	Overview of Cracking Tests	10:00 -
	Robert Lee, P.E., Construction Division, TxDOT	10:30 -
11:30 a.m. – Noon	Energy-Sector Materials Topics Brett Haggarty, San Antonio District, TxDOT	
	Jessica Castiglione, P.E., San Antonio District, TxDOT	11:00 -

PLANNING

ROOM: RUDDER THEATRE

Program and Session Co-Chairs:

James W. Koch, P.E., Transportation Planning and Programming Division, TxDOT

Katie Turnbull, Ph.D., TTI

Ed Hard, TTI

WEDNESDAY OCTOBER 12

Moderator:

Jessica Butler, Transportation Planning and Programming Division, TxDOT

Planning to Achieve Our Goals – The Strategic Plan Stacey Strittmatter, Strategic Planning, TxDOT

> **Tonia Norman,** Government Affairs Division, TxDOT

Planning for Our Future – The Long-Range Plan Michelle Conkle, Transportation Planning and Programming Division, TxDOT

- 10:00 a.m. Planning for Our Economic Growth – Freight and Border Plans Caroline Mays,

Transportation Planning and Programming Division, TxDOT

0 - 10:30 a.m. BREAK

:00 a.m.

:30 a.m.

11:00 a.m. Planning for Our Statewide System – Corridor Planning Susan Chavez,

Transportation Planning and Programming Division, TxDOT

11:30 a.m. Aligning Our Resources to Develop an Effective Program – Unified Transportation Program Robert Ramierez, Transportation Planning and Programming Division, TXDOT

11:30 a.m. - Noon Planning with Our Partners – Statewide Transportation Improvement Program Lori Morel, Transportation Planning and Programming Division, TxDOT

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11:00 - Noon

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PROJECT MANAGEMENT **ROOM: RUDDER AUDITORIUM Program and Session Co-Chairs:** Christopher D. Caron, P.E., Corpus Christi District, TxDOT Curtis Beaty, P.E., TTI John A. Habermann, P.E., TTI **Moderator:** Rodney Svec, P.E., Yoakum District, TxDOT 8:30 - 8:40 a.m. 8:30 - 9:15 a.m. Managing Corridor Project Development Roger Beall, P.E., Transportation Planning and Programming Division, TxDOT 9:15 - 10:00 a.m. Design-Build/Design-Bid-Build Project Selection Tool 8:40 - 9:15 a.m. Nabeel Khwaja, P.E., Center for Transportation Research Kristi Flagg, P.E., Project Finance, Debt and Strategic **Contracts Division** 10:00 - 10:30 a.m. BREAK **Moderator:** Kenneth Wiemers, P.E., Beaumont District, TxDOT 10:30 - 11:00 a.m. **Design-Build Project Management** Duane Milligan, P.E., Dallas District, TxDOT Successfully Prioritizing, Developing and Delivering the TxDOT Project Portfolio Colt Amberg, P.E., Transportation Planning and Programming Division, TxDOT **District Development and Execution** Lynn Isaak, P.E., PMP, Transportation Planning and Programming Division. TxDOT Jonathan Bean, P.E., San Antonio District, TxDOT

John DeWitt, P.E., San Angelo District, TxDOT

12 *NEDNESDAY* OCTOBER

RIGHT OF WAY

ROOM: RUDDER FORUM

Program and Session Co-Chairs:

Kyle Madsen, J.D., Right of Way Division, TxDOT

John Overman, AICP, P.G., TTI

Cesar Ouiroga. P.E., Ph.D., TTI

Moderator: Kyle Madsen, J.D., Right of Way Division, TxDOT

Introduction

Gus Cannon. CTCM. Right of Way Division, TxDOT

Kyle Madsen, J.D., Right of Way Division, TxDOT

Strategies for Getting Right of Way Started Early: How Is the New Normal Being implemented? Bill Buckner, Esq., Right of Way Division, TxDOT

David Harrah, SRWA, Austin District, TxDOT

Albrina Coleman. San Antonio District, TxDOT

9:15 - 9:50 a.m. Legal Pitfalls of Right of Way - How to Keep Your Project from Being Delaved Darby Venza, Right of Way Division, TxDOT

> Melinda Skillern, Right of Way Division, TxDOT

> Ashlea Hewlett. Right of Way Division, TxDOT

9:50 - 10:00 a.m. Introduction of New Utility Portfolio Director -The Path Moving Forward Charon Williams, E.I.T., CTCM, Right of Way Division, TxDOT

10:00 - 10:30 a.m. BREAK

11:05 - 11:40 a.m.

11:40 a.m. - Noon

Local Government Roles in Right of Way 10:30 - 11:05 a.m. James Kirk. General Council Division, TxDOT

> Stephen Lund. Right of Way Division, TxDOT

Utilities and Design – Design Transportation Projects with Utilities in Mind Lora Gunter, J.D., SRWA, Fort Worth District, TxDOT

Paul Fierro, Right of Way Division, TxDOT

UCM Training and 3D Mapping Cesar Quiroga, P.E., Ph.D., TTI

> Harsh Doshy, P.E., Austin District, TxDOT

STRUCTURES AND **HYDRAULICS**

ROOM: GATES BALLROOM-MSC 2400

Program and Session Co-Chairs:

Bonnie Longley, P.E., San Antonio District, TxDOT

Mary Beth Hueste, P.E., Ph.D., Texas A&M University and TTI

Moderator: Maurice Ferguson, Amarillo District, TxDOT

8:30 - 9:00 a.m.	History of Concrete Bridges in Texas Gregg Freeby, P.E., Bridge Division, TxDOT	8:30 - 9:00 a.m.
9:00 - 9:20 a.m.	Flood Forecasting and Emergency Response David Maidment, P.E., NAE, Ph.D., University of Texas	9:00 – 9:30 a.m.
9:20 - 9:40 a.m.	Extending the Life of Our Bridges Christen Longoria, P.E., San Antonio District, TxDOT Gabriel Villarreal, P.E., HDR, Inc.	9:30 - 10:00 a.m.
9:40 - 10:00 a.m.	Deep Foundations for Transportation Facilities: A Historic Perspective John Delphia, P.E., Bridge Division, TxDOT	10:00 - 10:30 a.m 10:30 - 11:00 a.m
10:00 - 10:30 a.m.	BREAK	
	Moderator:	44.00 44.00

Nancy Smith, P.E., Lufkin District, TxDOT

- 10:30 10:50 a.m. **Pre-Cast Deck Overhangs** Kevin Moyer, P.E., Bridge Division, TxDOT
- 10:50 11:10 a.m. **Slope Failures: Repair Options** Sean Yoon, P.E., Bridge Division, TxDOT

Hydraulic Design Manual Updates 11:10 - 11:40 a.m. Stan Hopfe, P.E., CFM, Design Division, TxDOT

11:40 a.m. - Noon Framework for Historic Bridge Preservation Mary Beth Hueste, P.E., Ph.D., Texas A&M University and TTI

WEDNESDAY **OCTOBER 12**

TRAFFIC **OPERATIONS II**

ROOM: MSC 2300 D&E

Program and Session Co-Chairs:

Rebecca Wells, P.E., Atlanta District, TxDOT Scott Cooner, P.E., TTI

Ed Seymour, P.E., Ph.D., TTI

Moderator: America Garza, P.E., Corpus Christi District, TxDOT

Effectiveness of Raised Median Projects Bill Frawley, TTI

Conversion of Two-Way Frontage Roads to One Wav Deanne Simmons, P.E., Atlanta District, TxDOT

Jason Dupree, P.E., Atlanta District, TxDOT

SH 161 Peak Period Bottleneck Project Jason Crawford, P.E., TTI

Jory Dille, North Central Texas Council of Governments

00 - 10:30 a.m. BREAK

30 - 11:00 a.m. El Paso Metropia Data Collection Program Thelma Ramirez, El Paso District, TxDOT

11:00 - 11:30 a.m. **Video Analytics for Incident Detection** in Houston Mike Pietrzyk, P.E., Houston District, TxDOT

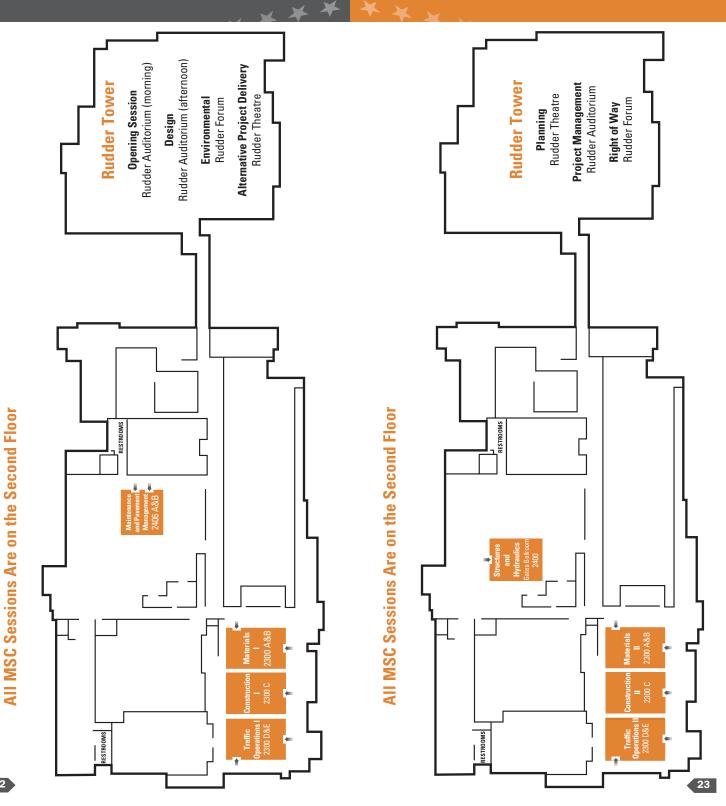
11:30 a.m. - Noon **Railroad Preemption Forms** Mark Johnson, P.E., Traffic Operations Division, TxDOT





TUESDAY SESSIONS

WEDNESDAY SESSIONS



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.)
- 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:

- 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.

For additional information:

TxDOT Employees should contact Chris Young at (512) 486-5475.

Non-TxDOT Employees should access the TBPE website: http://engineers.texas.gov/cep_faq.htm.

PROFESSIONAL DEVELOPMENT HOURS LOG

October 10–12, 2016 ★ Texas A&M University ★ College Station, TX

Name

Employee ID

Division/District/Company Name

Mailing Address

MONDAY, OCTOBER 10			
INITIAL	INITIAL SESSION TOPIC		
	Ethics for Transportation Professionals		

TUESDAY, OCTOBER 11				
INITIAL	INITIAL SESSION TOPIC			
	Alternative Project Delivery			
Construction I				
Design				
	Environmental			
	Maintenance and Pavement Managment			
	Materials I			
Traffic Operations I				

WEDNESDAY, OCTOBER 12			
INITIAL	INITIAL SESSION TOPIC		
	Construction II		
	Materials II		
Planning			
Project Management			
	Right of Way		
	Structures and Hydraulics		
	Traffic Operations II		

Signature (Your signature certifies your attendance at the sessions indicated.)

2016 SHORT COURSE AT A GLANCE

MONDAY, OCTOBER 10

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3:30 p.m. – 4:30 p.m. or 5:00 p.m. – 6:00 p.m.

Ethics for the Practicing Engineer – Second-Order Responsibilities for Designers of Tomorrow's Engineered Systems Location: Brazos County Expo Complex Texas Ballrooms

(This course satisfies the TBPE requirement for 1.0 hour of continuing education in ethics.)

	TUESDAY, OCTOBER 11			
	8:30 a.m. – Noon	1:30 p.m. – 5:00 p.m.		
			SESSION	LOCATION
			Alternative Project Delivery	Rudder Theatre
	No mn	Lunch on your own	Construction I	MSC 2300 C
	ESS itori		Design	Rudder Auditorium
	Mai And Charles And Charles An		Environmental	Rudder Forum
			Maintenance and Pavement Management	MSC 2406 A&B
			Materials I	MSC 2300 A&B
			Traffic Operations I	MSC 2300 D&E

WEDNESDAY, OCTOBER 12	
SESSION	LOCATION
Construction II	MSC 2300 C
Materials II	MSC 2300 A&B
Planning	Rudder Theatre
Project Management	Rudder Auditorium
Right of Way	Rudder Forum
Structures and Hydraulics	Gates Ballroom-MSC 2400
Traffic Operations II	MSC 2300 D&E

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91st ANNUAL **TRANSPORTATION SHORT COURSE October 9–11, 2017** TEXAS A&M UNIVERSITY | College Station, TX