



**VIRTUAL  
TRANSPORTATION  
SHORT COURSE**  
NINETY FOURTH ANNUAL

**OCTOBER 12–14, 2020**



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**MONDAY, OCTOBER 12 – AFTERNOON**

## **TxDOT EXECUTIVE ROUNDTABLE**

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2:30 p.m. – 3:30 p.m.

**MODERATOR:**

Marc D. Williams, P.E., Deputy Executive Director

**PANELISTS:**

James M. Bass, Executive Director,  
Anh Sellisen, Chief Information Officer;  
Mo Bur, P.E., Dallas District Engineer;  
Jessica Butler, P.E., Transportation Planning & Programming Division Director

## **ETHICS SESSION**

4:00 p.m. – 5:00 p.m.

**PRESENTER:**

William D. Lawson,  
Murdough Center for Engineering Professionalism  
Texas Tech University

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**TUESDAY, OCTOBER 13 – MORNING**

## **OPENING SESSION**

9:15 a.m.

**Final Countdown to the Ninety Fourth Annual Transportation Short Course**

Hosted by Marc Williams

## **GENERAL SESSION**

9:30 a.m. – 11:40 a.m.

11:45 a.m. – 12:15 p.m.

**30 Minutes with TTI**

12:15 p.m.

**TechDOT Preview**

**TxDOTConnect**



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**TUESDAY, OCTOBER 13** – Evening

## Special Events

5:30 p.m.

**Networking Event: Presented by Dannenbaum Engineering**



Dannenbaum Engineering is proud to present an evening of elegant deceptions featuring Ben Jackson's virtual one-man show, Digital Dexterity! Ben's program is a non-stop rollercoaster of excitement that mixes comedy, international award winning sleight-of-hand, and feats of the mind. His act has been featured at the world famous Magic Castle in Hollywood, CA, countless corporate functions across the country, and now, from the comfort of your own office/home. Coins dance across his fingertips, signed playing cards travel to impossible locations, and cell phones... well... you'll just have to see it to believe it. This is an interactive, clean, and mind-blowing show where guests will experience wonder right through the screen.

Join Zoom Meeting

<https://us02web.zoom.us/j/84141298784?pwd=VOpPS0hsNzdsM2tnYkdMVkV5VmF0Zz09>

Meeting ID: 841 4129 8784

Passcode: 887590

One tap mobile

+13462487799,,84141298784#,,,,,0#,,887590# US (Houston)

Michel Maksoud. Cell 2817445360. [Michel.maksoud@dannenbaum.com](mailto:Michel.maksoud@dannenbaum.com)

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**TUESDAY, OCTOBER 13** – Afternoon

**BRIDGES**

**TxDOT Co-Chair: Graham Bettis**

**TTI Co-Chair: Anna Birely**

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1:30 p.m. – 3:00 p.m.

***Bridge Design for Construction Safety***

**Robert Owens**, Bridge Division, TxDOT

**MODERATOR:**

**Curtis Rokicki**,  
Bridge Division, TxDOT

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***Pier Protection Guidance***

**Edgar Cuellar**, Bridge Division, TxDOT

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***UHPC for Steel Bridge Repair and Houston Ship Channel***

***Bridge Case Study***

**Tom Fan**, Houston District, TxDOT

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3:00 p.m. – 3:30 p.m.

**BREAK**

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3:30 p.m. – 5:00 p.m.

***Expanding In-House Bridge Repair Work***

**David Barrera**, Lubbock District, TxDOT

**Zilthai Soto**, El Paso District, TxDOT

**MODERATOR:**

**Steven Austin**,  
Bridge Division, TxDOT

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***Bridge Scour Policy and Updates***

**Trenton Ellis**, Bridge Division, TxDOT

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***Bridge Working Drawings, Bridge Tips, and a Highlight Reel***

**Doug Beer**, Bridge Division, TxDOT

**Leon Flourney**, San Antonio District, TxDOT

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**TUESDAY, OCTOBER 13** – Afternoon

## CONSTRUCTION I

**TxDOT Co-Chair: Duane Milligan**

**TTI Co-Chairs: Darlene Goehl, Victor Liu, and Jon Epps**

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1:30 p.m. – 3:00 p.m.

***Houston District FM 1093 (Westheimer Rd.)***

**Frank Leong**, Houston District, TxDOT

**Stacy Hilbrich**, Angel Brothers

**MODERATOR:**

**Ed Goebel,**

Lubbock District, TxDOT

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***IH-35, “The way we always did it, to how we do it now.”***

**Bill Compton**, Waco District, TxDOT

**Clayton Zacha**, Waco District, TxDOT

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***Odessa District Construction Changes, US 285 Corridor***

**Rick Betancourt**, Odessa District, TxDOT

**Caitlin Swick**, Odessa District, TxDOT

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3:00 p.m. – 3:30 p.m.

**BREAK**

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3:30 p.m. – 5:00 p.m.

***Safety Edge Treatment and MASH Compliant Devices***

**Alberto Guevara**, Design Division, TxDOT

**MODERATOR:**

**Ed Goebel,**

Lubbock District, TxDOT

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**Ken Mora**, Design Division, TxDOT

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***Construction Operations – Dealing with Covid-19, Contractor’s Perspective***

**Jimmy Whited Jr.**, Austin Materials

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***E-tickets for Materials in Construction***

**Jim Warren**, TxAPA

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**TUESDAY, OCTOBER 13** – Afternoon

**DESIGN**

**TxDOT Co-Chair: Jason Pike**

**TTI Co-Chair: Marcus Brewer**

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1:30 p.m. – 3:00 p.m.

***Construction Perspective on Designs – Common Issues and Suggestions for Improvement***

**Joseph Muck**, Austin District, TxDOT

**MODERATOR:**

**Jason Pike,**

Design Division, TxDOT

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***Evaluating Quality of Designs in SiteManager***

**Jason Duncan**, Construction Division, TxDOT

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***Super 2 Capacity and Cost Benefits***

**Marcus Brewer**, TTI

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3:00 p.m. – 3:30 p.m.

**BREAK**

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3:30 p.m. – 5:00 p.m.

***Access Management***

**Charlotte Teague**, Design Division, TxDOT

**MODERATOR:**

**Jason Pike,**

Design Division, TxDOT

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***Traffic and Safety Analysis Program Overview***

**Khalid Jamil**, Design Division, TxDOT

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***ADA Inventory Outreach***

**Becky Byford**, Design Division, TxDOT

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**TUESDAY, OCTOBER 13** – Afternoon

## ENVIRONMENT

**TxDOT Co-Chair: Bryan Ellis**

**TTI Co-Chair: Jolanda Prozzi**

1:30 p.m. – 3:00 p.m.

**MODERATOR:**  
**Carlos Swonke,**  
Environmental Affairs,  
TxDOT

***Community Impact Mitigation: Thinking Out of the Box on the NHHIP Project***

**Sue Theiss,** Houston District, TxDOT

***No-Mow, Modified Mow, Natural Area Data Discovery and Inventory***

**Jett McFalls,** TTI

***Beyond the Road: Helping with Public Meetings and Environmental Engagement***

**Rebekah Dobrasko,** Environmental Affairs, TxDOT

3:00 p.m. – 3:30 p.m.

**BREAK**

3:30 p.m. – 5:00 p.m.

**MODERATOR:**  
**Carlos Swonke,**  
Environmental Affairs,  
TxDOT

***USACE Permittee Responsible Mitigation: New Database Matching Permit Applicants with Landowners***

**Kate Zielke,** North Central Texas Council of Governments

***US 377, Cresson Relief Route – A Case Study in Section 404 Compliance and Mitigation***

**David Fowler,** Fort Worth District, TxDOT

**Marc Jansing,** Fort Worth District, TxDOT

**Sarah Horner,** Fort Worth District, TxDOT

***Delivering Projects by Building Meaningful Relationships: Bridging the Gap with Tribes and other Consulting Parties***

**Laura Cruzada,** Environmental Affairs, TxDOT

**Alabama-Coushatta Tribe of Texas**





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**TUESDAY, OCTOBER 13** – Afternoon

**MAINTENANCE & PAVEMENT MANAGEMENT**

**TxDOT Co-Chair: Glenn Allbritton**

**TTI Co-Chairs: Charles Gurganus and Sheng Hu**

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1:30 p.m. – 3:00 p.m.

***Update on Material Contracts and District Best Practices***

**MODERATOR:**  
**Tommy Henderson,**  
Paris District, TxDOT

**Alanna Bettis,** Maintenance Division, TxDOT

**Ryan Carrigan,** Abilene District, TxDOT

**Stuart Withington,** Tyler District, TxDOT

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***Implementation of CARS***

**Casey Rowe,** Financial Management Division, TxDOT

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***PMIS Scores and the Impact of Maintenance Actions***

**Marlon McGhee,** Maintenance Division, TxDOT

**Cody Bates,** Wichita Falls District, TxDOT

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3:00 p.m. – 3:30 p.m.

**BREAK**

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3:30 p.m. – 5:00 p.m.

***Ride Quality and Ride Quality Verification***

**Emmanuel Fernando,** TTI

**MODERATOR:**  
**Ryan Jackson,**  
Bryan District, TxDOT

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***The Use of LiDAR to Assist with Ditch Cleaning***

**Caitlin Swick,** Odessa District, TxDOT

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***Seal Coat Design Advancements***

**Darlene Goehl,** TTI

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***Winter Weather Responsive Management Strategies:***

***Wyoming I-80 Case Study***

**Jiaqi Ma,** UCLA

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**TUESDAY, OCTOBER 13** – Afternoon

**MATERIALS**

**TxDOT Co-Chair: Ryan Barborak**

**TTI Co-Chairs: David Newcomb and Fujie Zhou**

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1:30 p.m. – 3:00 p.m.

**MODERATOR:**  
**Johnnie Miller,**  
Materials and Tests  
Division, TxDOT

***Ultra-High Performance Concrete (UHPC)***

**Daniel Nigussie,** Houston District, TxDOT,

**Andy Naranjo,** Materials and Tests Division, TxDOT

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***Fibers in Concrete Bridge Decks***

**Rachel Cano,** Materials and Tests Division, TxDOT

**Doug Beer,** Bridge Division, TxDOT

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***Retroreflectivity Requirements and Verification Program***

**Adam Pike,** TTI

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***Revisions of Sampling Procedures for Aggregates  
and Flexible Base Materials***

**Michael Dawidczik,** Materials and Tests Division, TxDOT

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3:00 p.m. – 3:30 p.m.

**BREAK**

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3:30 p.m. – 5:00 p.m.

**MODERATOR:**  
**Jon Epps,** TTI

***Measuring Microtexture of Aggregates Using the Dynamic  
Friction Tester (DFT)***

**Richard Izzo,** Materials and Tests Division, TxDOT

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***Rejuvenators – Past, Present, and Future***

**Fujie Zhou,** TTI

**Amy Epps Martin,** TTI

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***Balanced Mix Design – Nationwide and Texas Perspective***

**Buzz Powell,** Auburn University

**Fan Yin,** Auburn University

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**TRAFFIC OPERATIONS I**

**TxDOT Co-Chairs: Jeremy Dearing and George Villarreal**

**TTI Co-Chairs: Scott Cooner and Ed Seymour**

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1:30 p.m. – 3:00 p.m.

**MODERATOR:**

**Dale Picha,**  
San Antonio District,  
TxDOT

***Pedestrian Hybrid Beacons: Operations and Safety Findings  
from Large-Scale Arizona DOT Study***

**Kay Fitzpatrick,** TTI

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***Data Driven Safety Plan for the Austin District***

**Mike Arellano,** Austin District, TxDOT

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***Best Practices for Systemic Safety Planning***

**Hillary Isebrands,** FHWA

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3:00 p.m. – 3:30 p.m.

**BREAK**

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3:30 p.m. – 5:00 p.m.

**MODERATOR:**

**Dale Picha,**  
San Antonio District,  
TxDOT

***Managing Minutes When Every Second Counts***

**Anthony White,** Fort Worth District, TxDOT

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***Community Safety Challenges with Traffic Impact Analysis***

**Michael Olivo,** Houston District, TxDOT

**Megan Siercks,** BGE, Inc.

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***Enhanced Safety with Dynamic Ramp Metering***

**Magdy Kozman,** Houston District, TxDOT

**Tracy Zhou,** TTI

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**WEDNESDAY, OCTOBER 14 – MORNING**

**ALTERNATIVE PROJECT DELIVERY**

**TxDOT Co-Chair: Scott Spradlin**

**TTI Co-Chair: Jason Crawford**

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8:30 a.m. – 10:00 a.m.

**MODERATOR:**  
**Mark Weaver,**  
Project Finance,  
Debt and Strategic  
Contracts, TxDOT

***Opening Remarks***

**William L. Hale,** Administration, TxDOT

**Brian R. Barth,** Project Planning and Development, TxDOT

**Benjamin H. Asher,** Project Finance, Debt and Strategic Contracts,  
TxDOT

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***Design-Build Programmatic Updates***

**Joe Adams,** Project Finance, Debt and Strategic Contracts, TxDOT

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***Capital Maintenance Programmatic Updates***

**Sachin Kunagalli,** Project Finance, Debt and Strategic Contracts, TxDOT

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10:00 a.m. – 10:30 a.m.

**BREAK**

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10:30 a.m. – Noon

**MODERATOR:**  
**Beth Ortego,**  
Project Finance,  
Debt and Strategic  
Contracts, TxDOT

***TxDOT's Focus on Pre-Procurement Activities***

**Randall C. Grones,** Project Finance, Debt and Strategic Contracts, TxDOT

**Adam Ramirez,** Project Finance, Debt and Strategic Contracts, TxDOT

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***District Project Updates***

**Christiana Astarita,** Austin District, TxDOT

**Grace Lo,** Dallas District, TxDOT

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***Design-Build Utility Agreements***

**Greg Faber,** Project Finance, Debt and Strategic Contracts, TxDOT

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***State Infrastructure Bank***

**Dallas Teston,** Project Finance, Debt and Strategic Contracts, TxDOT

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**WEDNESDAY, OCTOBER 14 – MORNING**

**CONSTRUCTION II**

**TxDOT Co-Chair: Duane Milligan**

**TTI Co-Chairs: Darlene Goehl, Victor Liu and Jon Epps**

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8:30 a.m. – 10:00 a.m.

***Dispute Resolution***

**Juan Urrutia**, Construction Division, TxDOT

**MODERATOR:**

**Chad Ingram**,  
Paris District, TxDOT

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***Bridging the Gap – Design and Material innovations to  
Construction Inspection***

**Travis Patton**, Materials and Test Division, TxDOT

**Chuck Fuller**, TxAPA

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***E-Contracting***

**Michael Smith**, Construction Division, TxDOT

**Osva Perez**, Williams Brothers

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10:00 a.m. – 10:30 a.m.

**BREAK**

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10:30 a.m. – Noon

***Accelerated Construction Research***

**Darlene Goehl**, TTI

**MODERATORS:**

**Chad Ingram**,  
Paris District, TxDOT

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***I-20 Rubblization Project***

**Lane Selman**, Dallas District, TxDOT

**Nic Wadlington**, Dallas District, TxDOT

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***FM 652***

**Sheetal Patel**, El Paso District, TxDOT

**Kevin Stafford**, Stephen F. Austin University

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**WEDNESDAY, OCTOBER 14 – MORNING**

**CONSULTANT MANAGEMENT**

**TxDOT Co-Chair: Vernon Webb**

**TTI Co-Chair: Melisa Finley**

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8:30 a.m. – 10:00 a.m.

**MODERATOR:**  
**Jeffrey Harmon,**  
Tyler District, TxDOT

***Lesson Learned from COVID-19***

**Martin L. Rodin,** Professional Engineering Procurement Services Division,  
TxDOT

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***Annual Rate Negotiation Pilot Update***

**Norma Glasscock,** Professional Engineering Procurement Services  
Division, TxDOT

**Doug Dillon,** BGE, Inc.

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***Electronic Submittal Platform***

**Dan Neal II,** Professional Engineering Procurement Services Division,  
TxDOT

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10:00 a.m. – 10:30 a.m.

**BREAK**

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10:30 a.m. – Noon

**MODERATOR:**  
**Bill Hicks,**  
Halff Associates, Inc.

***Bryan District's Program Management Contract***

**Patrick Owens,** Jacobs

**Carlos Neveu,** Bryan District, TxDOT

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***Accelerated Project Delivery: NASA Causeway Bridge  
Replacement – Study, Design, and Permitting***

**Brian Kirwan,** Volkert, Inc.

**Ralph S. Bove, Jr.,** Volkert, Inc.

**Mary McGehee,** Florida DOT

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**WEDNESDAY, OCTOBER 14 – MORNING**

**HYDRAULICS**

**TxDOT Co-Chair: Fang Yu**

**TTI Co-Chair: Stefan Hurlebaus**

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8:30 a.m. – 10:00 a.m.

***Introduction***

**Rose Marie Klee**, Design Division, TxDOT

**MODERATOR:**

**Bernie Carrasco**,  
Bridge Division,  
TxDOT

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***Hydraulic Design Manual Revisions***

**Abderrahmane Maamar-Tayeb**, Design Division, TxDOT

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***DOs and DONTs for H&H Modeling and Design***

**Fang Yu**, Design Division, TxDOT

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10:00 a.m. – 10:30 a.m.

**BREAK**

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10:30 a.m. – Noon

***Texas Weather and Climate: Patterns, Trends, Events  
and Useful Resources***

**Paul Yura**, National Weather Service

**MODERATOR:**

**Rose Marie Klee**,  
Design Division, TxDOT

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***Traffic Safety Improvements at Low Water Crossings***

**Chiara Silvestri Dobrovlny**, TTI

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***Flood Early Warning System Predictive Modeling***

**Jorge Urquidi**, City of Austin

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**WEDNESDAY, OCTOBER 14 – MORNING**

**PLANNING**

**TxDOT Co-Chair: Mildred Litchfield**

**TTI Co-Chair: Ed Hard and Katie Turnbull**

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8:30 a.m. – 10:00 a.m.

**Panel Discussion: Multi-Modal Planning Implications from COVID-19**

**MODERATOR:**

**James Koch,**  
Houston District, TxDOT

***Highways, Roadways, and Vehicle Miles Traveled***  
**Michael Morris,** North Central Texas Council of Governments

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***Public Transportation***  
**Tom Lambert,** Houston METRO

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***Bicyclists and Pedestrians***  
**Noah Heath,** Public Transportation Division, TxDOT

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**Kevin Kokes,** North Central Texas Council of Governments

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***Air Travel***  
**Jim Halley,** Aviation Division, TxDOT

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10:00 a.m. – 10:30 a.m.

**BREAK**

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10:30 a.m. – Noon

**Panel Discussion: Planning Implications for the Future**

**MODERATOR:**  
**Paula Sales-Evans,**  
Corpus Christi District,  
TxDOT

***Financial***  
**Tom Currah,** Texas Comptroller of Public Accounts

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***Environmental and Land Use***  
**Jeff Taebel,** Houston-Galveston Area Council

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***Vehicles and Automation***  
**Brian Cronin,** Federal Highway Administration

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***Recreational Travel and Tourism***  
**Joan Henderson,** Travel Information Division, TxDOT

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**WEDNESDAY, OCTOBER 14 – MORNING**

**PROJECT MANAGEMENT**

**TxDOT Co-Chair: Marisabel Ramthun**

**TTI Co-Chair: John Habermann and David Ford**

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8:30 a.m. – 10:00 a.m.

***135E Southern Gateway Design Build***

**Ashton Strong**, Dallas District, TxDOT

**MODERATOR:**

**Marisabel Z. Ramthun**,  
Design Division, TxDOT

***The Framework, Operations, and Integration of TxDOT-GEC  
Team for the Austin District Mobility35 Program***

**Susan Fraser**, Austin District, TxDOT

**Stephanie Messerli**, Jacobs

***Managing a Project to Ready to Let – What Does it Really  
Mean?***

**Chris H'luz**, Austin District, TxDOT

**Eddie Garcia**, Austin District, TxDOT

**Robert Carrillo**, Rodriguez Transportation

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10:00 a.m. – 10:30 a.m.

**BREAK**

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10:30 a.m. – Noon

***Project Construction Schedule Review***

**Brad White**, Infrastructure Associates, Inc.

**MODERATOR:**

**Marisabel Z. Ramthun**,  
Design Division, TxDOT

***Leveling Up PM Skills with the TxDOT Project Manager Institute  
(TPMI)***

**Benjamin Ramirez**, Transportation Programs Division, TxDOT

**Darren McDaniel**, Transportation Programs Division, TxDOT

**Adam Jack**, Beaumont District, TxDOT

**Valerie Alvarado**, Odessa District, TxDOT

**Danielle Johnson-Robinson**, Transportation Programs Division, TxDOT

**Lizeth Sandoval**, Austin District, TxDOT

**April Morin**, Right of Way Division, TxDOT

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**WEDNESDAY, OCTOBER 14 – MORNING**

## **RIGHT OF WAY**

**TxDOT Co-Chair: Charon Williams**

**TTI Co-Chairs: John Overman and Cesar Quiroga**

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8:30 a.m. – 10:00 a.m.

***Introduction***

**Charon Williams**, Right of Way Division, TxDOT

**MODERATOR:**

**Lezlie Kirby**,  
Right of Way Division,  
TxDOT

***Delivering Advanced Right of Way Acquisition Solutions for Texas***

**Elizabeth Martin**, Houston District, TxDOT

**Kristy Fincher**, Right of Way Division, TxDOT

***TxDOT Surplus Property – Beauty is in the Eye of the Beholder***

**Dane Goodman**, Right of Way Division, TxDOT

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10:00 a.m. – 10:30 a.m.

**BREAK**

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10:30 a.m. – Noon

***Joint Bid Utilities – Partnering with Benefits***

**Andres Hidalgo**, San Antonio District, TxDOT

**MODERATOR:**

**Charon Williams**,  
Right of Way Division,  
TxDOT

**Claudia Valles**, San Antonio District, TxDOT

***Partnering with AT&T to Keep You Connected***

**Jeffrey Broocks**, AT&T

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## TRAFFIC OPERATIONS II

TxDOT Co-Chairs: **Jeremy Dearing** and **George Villareal**

TTI Co-Chairs: **Scott Cooner** and **Ed Seymour**

8:30 a.m. – 10:00 a.m.

***Innovative Nighttime Inspection Tool Using GIS***

**Jacob J. Longoria**, Corpus Christi District, TxDOT

**MODERATOR:**

**Theresa Poer**, Fort Worth District, TxDOT

**Victor J. Gonzalez**, Laredo District, TxDOT

**Ashley Hayes**, Odessa District, TxDOT

***Conflict Monitoring System in the Atlanta District***

**Rebecca Wells**, Atlanta District, TxDOT

***CARMA Data Sharing Capabilities***

**Brian Cronin**, Federal Highway Administration

10:00 a.m. – 10:30 a.m.

**BREAK**

10:30 a.m. – Noon

***Update on Connected and Automated Vehicle Task Force and Strategic Planning***

**Darran Anderson**, Administration, TxDOT

**MODERATOR:**

**Theresa Poer**, Fort Worth District, TxDOT

***Towards ZERO: Using Bluetooth to Address Secondary Crashes and Improve Freeway Incident Management***

**Valerie Taylor**, Houston District, TxDOT

**Jeff Kaufman**, TTI

***The Traffic Network Recovery of 2020***

**Joseph Hunt**, Traffic Safety Division, TxDOT

## TechDOT Sessions

1:00 – 2:00 p.m.

- Ready for Use! Proven Innovations you can use Today: National research projects for TxDOT and our local partners Connected and Autonomous Vehicles
- The Future of Transportation Is Closer Than You Think!: Deployments, Programs, Strategies and Insight for the next 50 Years
- Do You Know Where Your Electric Meters Are? Energizing Utility Meter Management

## TxDOTConnect Road Show

1:00 – 2:00 p.m.