



2022

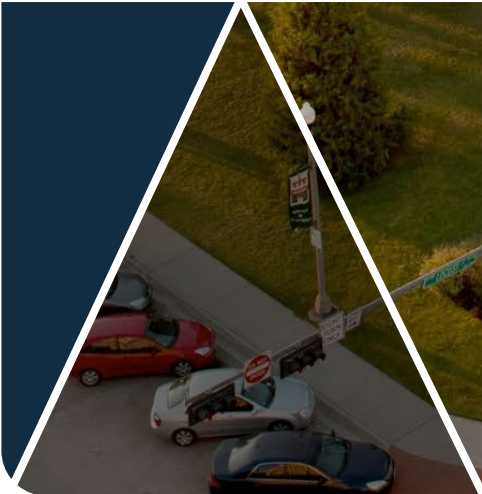


**FALL MEETING**



**SEPTEMBER 7-9**

**Embassy Suites by Hilton  
Denton Convention Center**  
3100 Town Center Trail  
Denton, Texas, 76201



# WELCOME



**HOWDY AND WELCOME** to the first TexITE meeting in Denton, Texas! Words cannot express how great it is to have you here IN PERSON! Take advantage of the opportunity to network and connect with a diverse cross-section of fellow engineers, planners, and technologists from throughout Texas and the United States. This meeting showcases some of the best things that Denton has to offer along with a program featuring the latest technical information in the transportation field. We are proud to be joined by Gail Lyssy from Federal Transit Administration as the keynote speaker during the Kickoff Luncheon. We are also honored to be joined by the Mayor of Denton - Gerard Hudspeth and ITE International President - Beverly Kuhn. The TexITE Board wishes to express gratitude to all our vendors and sponsors. Without them, this meeting would not be financially possible, and let's be honest - not as fun. We also want to THANK YOU, our meeting participants, for taking the time out of your busy schedules to join our TexITE family. Last but not least, we want to thank the Local Arrangement Committee (LAC) volunteers who have dedicated countless hours to making sure this is a successful event, we truly appreciate your service! Please reach out to a TexITE board member, LAC Co-Chair, or registration staff if you have any questions.

Thank you and enjoy the meeting!



*Erin Eurek,*  
2022 TexITE  
President



*Pam Alummoottil,*  
Local Arrangement  
Committee Co-Chair



*Pritam Deshmukh,*  
Local Arrangement  
Committee Co-Chair

President .....	<b>Erin Eurek</b>
Vice-President .....	<b>Scott Nelson</b>
Secretary-Treasurer .....	<b>Gary Thomas</b>
International Director .....	<b>Melisa Finley</b>
Past President .....	<b>Paul Luedtke</b>
Brazos Valley Section Representative .....	<b>Brad Brimley</b>
Capital Area Section Representative .....	<b>Darren Ujano</b>
Greater Dallas Section Representative .....	<b>Robyn Root</b>
Greater Fort Worth Section Representative .....	<b>Mark Mathis</b>
Houston Area Section Representative .....	<b>Charles Stevens</b>
Lone Star Section Representative .....	<b>John Habermann</b>
South Texas Section Representative .....	<b>Larry Picasso</b>

**Meeting Wi-Fi  
Network .....**  
**Password .....**



**TexITE Denton  
WalterPMoore24**

# SCHEDULE at a glance



## WEDNESDAY, SEPTEMBER 7

7:00am–1:00pm	Golf Tournament (Breakfast and Lunch Included) <i>Bridlewood Golf Club - 4000 W Windsor Dr, Flower Mound, TX 75028</i>
8:00am–7:00pm	Registration
8:00am–5:00pm	Exhibit Hall Setup (Chilton/Kincaid)
8:00am–12:00pm	Technical Workshop: HCM & HCS hosted by McTrans (Arabian)
9:00am–12:30pm	Technical Tour: Bike Tour
9:30am–1:00pm	Technical Tour: Peterbilt Plant
12:00pm–4:00pm	Technical Tour: Mobility Innovation Zone (Lunch Included)
1:00pm–4:30pm	Technical Workshop: CORSIM hosted by McTrans (Arabian)
1:30pm–5:00pm	District Board Meeting (Fort Worth/Dallas)
5:00pm–6:00pm	Professional Ethics Seminar (Eagles)
6:00pm–8:00pm	Highway Products Group Exhibits and Reception (Chilton/Kincaid)
8:00pm–12:00am	The Big & Little Games (Eagles/Arabian)

## THURSDAY, SEPTEMBER 8

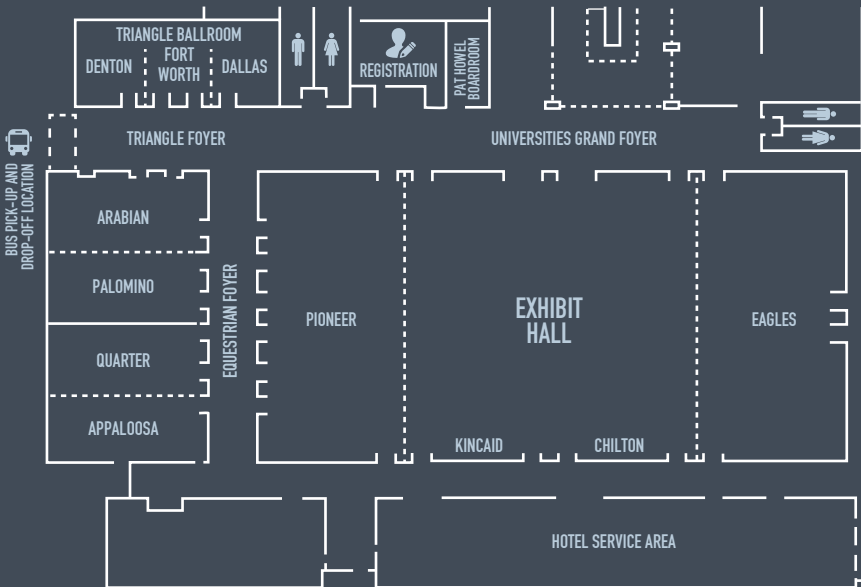
7:00am–5:00pm	Registration
7:00am–8:00am	Roundabout Committee (Triangle)
7:30am–5:00pm	Exhibit Hall Show (Breakfast Included / Chilton/Kincaid)
8:00am–9:00am	Speak Up! Student and Younger Member Collaboration with Leadership (Triangle)
9:15am–11:00am	Plenary Session 1 (Eagles)
11:30am–1:15pm	Kickoff Luncheon (Eagles)
1:30pm–3:00pm	Concurrent Sessions: - 2A: ITS/Innovative Traffic (Palomino/Arabian) - 2B: New Technologies in Transportation (Appaloosa/Quarter)
3:00pm–3:30pm	Student Poster Session and Break (Universities Grand Foyer)
3:30pm–5:00pm	Concurrent Sessions: - 3A: Safety/Vision Zero (Palomino/Arabian) - 3B: Developing Project & People Management Skills (Appaloosa/Quarter) - 3C: ITE Town Hall (Triangle)
6:00pm–9:00pm	Thursday Night Social (Dinner Included) <i>Patterson-Appleton Arts Center   400 E Hickory St. Denton, TX 76201</i>
9:00pm–12:00am	Younger Members Event: Downtown Bar Crawl Scavenger Hunt <i>Main Bar - Harvest House - 331 E Hickory St. Denton, TX 76201</i>

# SCHEDULE at a glance

## FRIDAY, SEPTEMBER 9

7:30am–12:00pm	Registration
7:30am–10:30am	Exhibit Hall Show (Breakfast Included / Chilton/Kincaid)
8:30am–10:00am	Concurrent Sessions: - 4A: Traffic Calming and ATMS (Palomino/Arabian) - 4B: Emerging Vehicle Technology (Appaloosa/Quarter)
10:00am–10:30am	Student Poster Session and Break (Universities Grand Foyer)
10:30am–12:00pm	Concurrent Sessions: - 5A: Roundabouts & Innovative Intersections (Palomino/Arabian) - 5B: Multimodal Transportation Options (Appaloosa/Quarter)
10:30am–5:00pm	Exhibit Hall Teardown
12:00pm–1:30pm	District Business Meeting (Lunch Included / Eagles)

## EMBASSY SUITES map



# PROGRAM HIGHLIGHTS



## GOLF TOURNAMENT



Wednesday, September 7  
(\$100 per registrant or \$350 per foursome team – Breakfast and Lunch Included)  
Max Capacity = 60 people  
7:00 am - 1:00 pm (6 hours)  
Bridlewood Golf Club - 4000 W Windsor Dr,  
Flower Mound, TX 75028

Kick things off on Wednesday morning with a round of golf with your fellow TextITE members.

## EXHIBITOR RECEPTION



Wednesday, September 7  
Room: Chilton/Kincaid  
6:00 pm - 8:00 pm (2 hours)

Visit with your colleagues at the Highway Products Group Exhibits and Reception. Also learn about the latest innovations in signal equipment, pavement markings, signing, lighting, and much, much more. Heavy Hors d'oeuvres will be provided to all attendees.

## THE LITTLE GAMES



Wednesday, September 7  
Room: Arabian  
8:00 pm - 12:00 am (up to 4 hours)

TextITE will also have board games and lawn games available for anyone who would prefer this type of competition or have nothing else to do after losing The Big Game.

## THE BIG GAME



Wednesday, September 7  
Room: Eagles  
8:00 pm - 12:00 am (up to 4 hours)

TextITE will be hosting its traditional Texas Hold 'Em Tournament on Wednesday evening following the Exhibitor Reception. No experience necessary. Come enjoy the fun, snacks, and prizes.

*Thank you to our title sponsor:*



## THURSDAY NIGHT SOCIAL



Thursday, September 8  
6:00 pm - 9:00 pm (3 hours)  
Patterson-Appleton Arts Center - 400 E  
Hickory St, Denton, TX 76201

The social will include dinner, drinks, and live music from a local jazz band Fingerprints. Free parking is available in the parking lot on the south side of the building, only access point is along Bell Avenue. A charter bus will be circulating to and from the hotel.

*Thank you to our sponsor:*



## YOUNGER MEMBERS EVENT: DOWNTOWN BAR CRAWL SCAVENGER HUNT



Thursday, September 8  
9:00 pm - 12:00 am (3 hours)  
Harvest House - 331 E Hickory St, Denton,  
TX 76201

The Younger Members will be hosting a scavenger hunt themed night out. All are welcome to join. The group will begin at the Thursday Night Social - Arts Center and end at the Harvest House. The scavenger hunt will end at 10:30 pm. A charter bus will be circulating to and from the hotel and Arts Center, 10:30 pm - 12:00 am.



# TRAINING & TOURS

**WEDNESDAY, SEPTEMBER 7**



## Peterbilt Plant Tour

*(\$30 per registrant) | Max Capacity = 20 people | 9:30 am - 1:00 pm (3.5 hours)*

Visit the Peterbilt Denton Plant and get a glimpse of the company's past, present, and future. Since Peterbilt's opening in August 1980, the Denton manufacturing plant has become the main facility for the brand. The tour includes a briefing of Peterbilt's history, Peterbilt Experience area which has interactive displays, a 1939 truck, and other historically significant trucks. This is followed by a guided walk through the assembly plant to observe how Peterbilt trucks are produced from start to finish. The tour itself will last about 1.5 hours. The remainder of the time will include an optional lunch with other tour participants, at your own expense.

## Mobility Innovation Zone Tour

*(\$40 per registrant – Lunch Included)  
Max Capacity = 30 people  
12:00 pm - 4:00 pm (4 hours)*

Hillwood staff will host a lunch and learn to provide background information on the AllianceTexas project, which includes the Mobility Innovation Zone. Then a bus tour will allow participants to see various features of this area. Stops may include the Alliance Airport, Flight Test Center, BNSF Intermodal, and TuSimple.



[www.bikewalkdenton.com](http://www.bikewalkdenton.com)

## Bike Tour

*(\$20 per registrant who brings own bike or \$60 if renting a bike)  
Max Capacity = 20 people  
9:00 am - 12:30 pm (3.5 hours)*

Nathan George, City of Denton's Bicycle, Pedestrian, and ADA Coordinator will be guiding the group in a three to four-mile leisurely-paced bike ride throughout the City of Denton and highlighting popular cycling trails, iconic landmarks, construction projects, and much more. An optional lunch stop is planned to take place after the bike ride on the historic downtown square, at your own cost.





## WEDNESDAY, SEPTEMBER 7

### HCM, HCS, & CORSIM Training

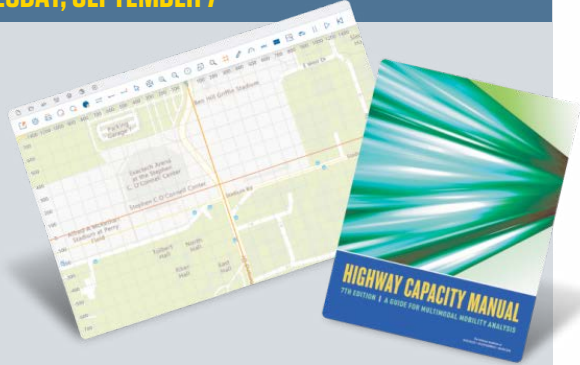
#### HCM & HCS Training

(\$50 per registrant)

Room: Arabian

Max Capacity = 100 people

8:00 am - 12:00 pm (4 hours)



McTrans staff will facilitate the HCM and HCS training and provide temporary software licenses. This workshop will be formatted for beginner users and instructors will be using the latest software version available. Refreshments will be provided. 1 hour will be dedicated to discuss updates made to the HCM 7th edition (2022) and 2.5 hours will include Highway Capacity Software training.

#### CORSIM Training

(\$50 per registrant)

Room: Arabian

Max Capacity = 70 people

1:00 pm - 4:30 pm (3.5 hours)

McTrans staff will facilitate the CORSIM simulation training and provide temporary software licenses. This workshop will be formatted for beginner users and instructors will be using the latest software version available. Refreshments will be provided.

*Lunch will be provided for registrants that attend both the HCM/HCS and CORSIM training workshops.*

### Professional Ethics Seminar

(Free)

Room: Eagles

5:00 pm - 6:00 pm (1 hour)

Kelly Dillard with Walter P Moore will host an ethics seminar that meets the requirements of the Texas Board of Professional Engineers. Alex Garcia with Aguirre-Fields will be assisting as the session moderator. The seminar is free for all meeting registrants.







# TECHNICAL PROGRAM

## THURSDAY, SEPTEMBER 8

7:00am–8:00am

**ROUNABOUT COMMITTEE**

Triangle

The meeting's discussion will be led by Committee Chair Jason Vaughn with the City of Sugar Land.

8:00am–9:00am

**SPEAK UP! STUDENT AND YOUNGER  
MEMBER COLLABORATION WITH LEADERSHIP**

Triangle

Students and Younger Members are invited to meet with TextITE leadership to discuss how Sections and the District can be better engaged with them. Attendees will break into groups and dive into what they enjoy about ITE, involvement opportunities, and how TextITE can better support the student and younger members. It will be a great way to introduce yourself and network with TextITE leadership and colleagues. Stop by the exhibit hall to chat with vendors and grab some breakfast and coffee on your way to the session. We hope to see you there!

9:15am–11:00am

**PLENARY SESSION 1**

Eagles

**Denton a Case Study: The Impact of  
Land Use Planning on Transportation**

*Moderator:*

***Pritam Deshmukh, City of Denton***

*Speakers:*

**ITE Today**

Beverly Kuhn, ITE International President, Texas A&M Transportation Institute

**Chapter 1: The History of Denton**

Cameron Robertson, City of Denton

**Chapter 2: We Did Not Plan – Where Are We Today**

Tina Firgens, City of Denton

**Chapter 3: Planning the Unknown – Rapid Growth and Real Challenges**

Scott McDonald, City of Denton





11:30am – 1:15 pm

## KICKOFF LUNCHEON

Eagles

*Welcome Speaker:*

**Mayor Gerard Hudspeth**, *City of Denton*

*Keynote Speaker:*

**Gail Lyssy**, *Federal Transit Administration*

1:30pm – 3:00pm

## CONCURRENT SESSIONS 2A AND 2B

**2A: ITS/Innovative  
Traffic**  
Palomino/Arabian

**2B: New Technologies in  
Transportation (*Vendor Presentations*)**  
Appaloosa/Quarter

*Moderator:*

**Sean Merrell**, *BGE, Inc.*

*Speakers:*

**Analyzing Citywide Traffic  
Patterns With Big Data**

Chad Ostrander, *City of Plano*

**Situational Awareness Apps:**

**Adding Eyes and AI to ITS Toolbox**

Thomas Bamonte, *North Central  
Texas Council of Governments*

**New Performance Measures for Arterial  
Traffic Signal Systems Based on Emerging  
Crowdsourced Data and Wejo Connected  
Vehicle Data**

Dr. Pengfei (Taylor) Li &  
Peirong (Stade) Wang, *University  
of Texas at Arlington*

*Moderator:*

**Linc Wright**, *Gradient Group*

*Speakers:*

**YUTRAFFIC Blade –New  
Traffic Controller Platform**

Iouri Nemirovski,  
*Yunex Traffic*

**Video-as-a-Sensor Technology  
Drives Safer Roadways**

Aaron Meade,  
*Bosch Security and Safety Systems*

**Using Cloud-Based, GPS Trajectory Data to  
Find & Fix Traffic Signal Issues Quickly**

Shaun Quayle,  
*INRIX*



## TECHNICAL PROGRAM

3:00pm — 3:30pm

STUDENT POSTER SESSION

Universities Grand Foyer

***Developing a Tracking-based Dynamic Flash Yellow Arrow (D-FYA) Strategy for Permissive Left-Turn Vehicles at Intersections to Improve the Concurrent Crossing Pedestrian Safety*** by Farzana Chowdhury, Peirong (Slade) Wang, and Pengfei (Taylor) Li, University of Texas at Arlington

***Nova: Open Source Software Stack for Autonomous Driving*** by Justin Ruths and Will Heitman, University of Texas at Dallas

***Air Quality to Estimate Near-Road Exposure Level in the Network*** by Jaesik Choi, University of Texas at Arlington

***Effective Implementation of Performance Measure for Traffic Congestion Management*** by Sandip Acharya, Texas Southern University

***Implementation of Complete Streets and Their Effects On Communities*** by Laquinton Armbrister, Texas Southern University

***Examination of Transportation to Improve Equity for Communities*** by Abdullah Adea, Texas Southern University

***Maturity in Automated Driving on Public Roads: A Review of the Six-Year Autonomous Vehicle Tester Program*** by Xiaoyu "Sky" Guo, Texas A&M University

***Evaluating Public Transit Equity and Accessibility using the GTFS data for Dallas County*** by Hardik Gupta, Sahaja Mandava, Sreelekha Gudimella, Texas A&M University





# TECHNICAL PROGRAM

3:30pm – 5:00pm

CONCURRENT SESSIONS 3A, 3B, AND 3C

## 3A: Safety/Vision Zero Palomino/Arabian

*Moderator:*

**Thomas Bamonte,**

*North Central Texas Council of Governments*

*Speakers:*

### **You Want Me to Turn Off the Flashing Yellow Arrow? A Study of Left Turn Crashes in Frisco, Texas**

Curtis Jarecki, City of Frisco  
& Curtis Hefner, Lee Engineering

### **Roadway Lighting – Data Driven Decisions**

Devon Brazeal, Olsson

### **Developing Low-Cost Crash Countermeasures in Support of Vision Zero**

Dhruva Lahon, Kimley-Horn

### **Getting to Zero in Denton**

Josh Peterman, Fehr & Peers

## 3B: Developing Project & People Management Skills (Hosted by Women of TextE) Appaloosa/Quarter

*Moderator:*

**Gaby Tassin,**

*Au+Engineering*

*Speakers:*

**Roma Stevens,**

*Stevens Technical Services, Inc.*

**Theresa Poer,**

*Texas Department of Transportation*

**Megan Siercks,**

*BGE, Inc.*

**Stephanie Taylor,**

*Walter P Moore*



## 3C: ITE Town Hall | Triangle Ballroom

**Beverly Kuhn**, ITE International President, Texas A&M Transportation Institute

The ITE International Leadership Town Hall session is intended to provide an open forum for members to have a facilitated conversation with ITE International Leaders. ITE President Beverly Kuhn, your International Director Melisa Finley, and additional Executive Committee members will share details about key ITE initiatives and activities and seek feedback from members in an informal setting. This is your opportunity to meet ITE's Leadership, ask questions and share suggestions on how to make ITE better.



## FRIDAY, SEPTEMBER 9

8:30am – 10:00 am

CONCURRENT SESSIONS 4A AND 4B

### 4A: Traffic Calming and ATMS Palomino/Arabian

*Moderator:*

**Melisa Finley,**

*Texas A&M Transportation Institute*

*Speakers:*

**Leveraging Video, ATSPM, and  
Crowd Sourced Data to Improve  
Safety and Operations**

*Kirk Houser, City of Frisco*

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**The Power of Peer-to-Peer**

*William Cummings, City of Lubbock*

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**ITE's Proposed Recommended Practice Update  
for Speed Humps and Related Techniques**

*James Kratz, Jacobs*

### 4B: Emerging Vehicle Technology Appaloosa/Quarter

*Moderator:*

**Chad Ostrander,**

*City of Plano*

*Speakers:*

**Charging Ahead: Preparing  
Communities for Vehicle Electrification**

*Brian Marshall, Olsson*

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**Highways in the Sky**

*Jacob Demmitt, Wing*

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**AV2.0: Technology Catalyst in DFW**

*Clint Hail, North Central Texas*

*Council of Governments*

10:00am – 10:30am

STUDENT POSTER SESSION

Universities Grand Foyer





# TECHNICAL PROGRAM

10:30am – 12:00 pm

CONCURRENT SESSIONS 5A AND 5B

## 5A: Roundabouts & Innovative Intersections Palomino/Arabian

*Moderator:*  
**Wade Odell,**

*Texas Department of Transportation*

*Speakers:*

### **Innovative Interchanges: Context Sensitive Solutions**

Pragna Tata & Roshna Ashraf, HDR

### **Displaced Left Turn: Lessons Learned From Opening Day**

Patricia Davis, City of Pflugerville &  
Jennifer Butcher, Pacheco Koch,  
a Westwood Company

### **10,000+ U.S. Roundabouts From a Fad to a Vision Zero Catalyst**

Jay VonAhsen, Kimley-Horn

## 5B: Multimodal Transportation Options Appaloosa/Quarter

*Moderator:*  
**Jim Cline,**

*Texas A&M Transportation Institute*

*Speakers:*

### **Bus Route Realignments and Signal Prioritization Pilot**

Rob Smith, DART

### **Update From Trinity Metro**

Chad Edwards, Trinity Metro

### **Update From DCTA**

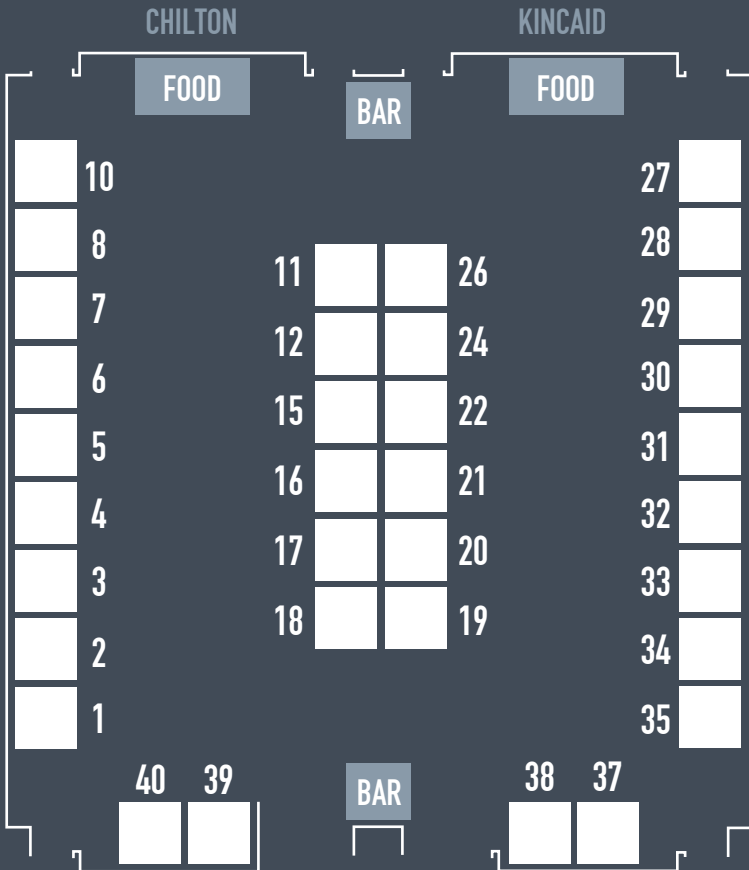
Paul Cristina, DCTA

IMPROVING  
DENTON





# EXHIBIT HALL



MAIN ENTRANCE FROM HOTEL FOYER

## Win a DJI Mini 2 Aerial Camera Bundle!!

Receive a stamp on this page from each exhibitor or student as you network. Drop your business card, ask them about their business, research, and fun fact. Then visit the Exhibitor Engagement Booth to redeem 1 raffle ticket for every 3 stamps you collect. Winner will be announced at the Business Meeting. (You do not need to be present to win).



# EXHIBIT HALL

Consolidated Traffic Controls Inc. ....	1
AM Signal LLC .....	2
Carmanah Technologies.....	3
Transline Industries.....	4
McTrans.....	5
Twincrest Technologies .....	6
Leotek Electronics USA, LLC .....	7
PSS-Innovations.....	8
Vacant as of 8/29 .....	10
Texas Highway Products .....	11
Tiger Traffic .....	12
IMSA Southwestern Section .....	15
Econolite.....	16
WTI.....	17
Paradigm Traffic Systems.....	18
Paradigm Traffic Systems.....	19
Image Sensing Systems, Inc. ....	20
TAPCO.....	21
Bosch Building Technologies .....	22
Skyline Products .....	24
Texas Highway Products .....	26
Vacant as of 8/29 .....	27
GRAM Traffic North Texas, Inc.....	28
ITS Plus, INC .....	29
3M Company .....	30
Student Posters .....	31
Student Posters .....	32
Student Posters .....	33
Siemens Industry .....	34
Cubic ITS .....	35
Yunex Traffic .....	37
MoboTrex .....	38
Iteris.....	39
SWARCO McCain Inc.....	40



# THANK YOU SPONSORS

THURSDAY NIGHT SOCIAL



LANYARD



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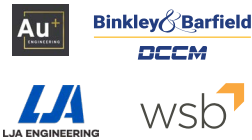
THE BIG GAME - TITLE



PLATINUM



GOLD



SILVER



Scan me after the meeting to document your PDHs!



[www.texite.org/fall2022/record-of-attendance](http://www.texite.org/fall2022/record-of-attendance)

Join us in **Lubbock** for the **TextITE Spring Meeting** on April 12-14, 2023, at the Overton Hotel and Conference Center. A great technical program, pre-meeting events, and West Texas hospitality are in store. More information at [www.texite.org/spring2023](http://www.texite.org/spring2023)



Follow us on Twitter @TextITE.  
Use the hashtag #TextITEConf.



You can also like us on Facebook at [facebook.com/TexasITE](https://facebook.com/TexasITE).