Transportation Transformed

AUSTIN, TX

Joint ITE International and Texas District Annual Meeting and Exhibit

July 21-24, 2019
Hilton Austin
Austin, Texas, USA
www.ite.org/annualmeeting
Connected vehicles start with connected Information services. The first vehicle-to-Infrastructure service available to consumers, Audi connect Traffic Light Information, has been available since 2016. Support real V2I solutions by connecting traffic signals to TTS servers. No hardware is needed. No cost to the government agency. No need to wait.

BECOME A CONNECTED CITY:
www.traffictechservices.com/connected-city
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56 Exhibit Hall and Hotel Floor Plans

Hours

Registration Hours
Attendee Registration: ITE’s attendee registration desk is located in the foyer on the 4th floor in front of the Governor’s Ballroom.

Exhibitor Registration: Exhibitor registration will be available on the 6th floor in front of the Grand Ballroom on Sunday, July 21 and Monday, July 22. At other times, exhibitors and those interested in visiting the exhibit hall should stop by the Attendee Registration Desk on the 4th floor.

Saturday, July 20
2:00 p.m.–5:00 p.m.
Attendee and Exhibit Registration Open

Sunday, July 21
7:30 a.m.–5:30 p.m.
Attendee and Exhibit Registration Open

Monday, July 22
7:30 a.m.–5:30 p.m.
Attendee and Exhibit Registration Open

Exhibit Hall Hours
The exhibit hall is located on the 6th floor in the Grand Ballroom.

Saturday, July 20
2:00 p.m.–5:00 p.m.
Attendee and Exhibit Registration Open

Sunday, July 21
7:30 a.m.–5:30 p.m.
Attendee and Exhibit Registration Open

Monday, July 22
7:30 a.m.–5:30 p.m.
Attendee and Exhibit Registration Open

Tuesday, July 23
7:30 a.m.–5:30 p.m.
Attendee Registration Open

Wednesday, July 24
7:30 a.m.–10:30 a.m.
Attendee Registration Open

Exhibit Hall Set Up (exhibitors only)
6:00 p.m.–7:30 p.m.
“Welcome to Austin” Opening Reception

Monday, July 22
7:30 a.m.–8:30 a.m.
Continental Breakfast
7:30 a.m.–3:45 p.m.
Exhibit Hall Open
10:30 a.m.–11:15 a.m.
Beverage and Networking Break
Sponsored by HDR
12:15 p.m.–1:30 p.m.
Lunch
3:00 p.m.–3:45 p.m.
Beverage and Networking Break

Tuesday, July 23
7:30 a.m.–8:30 a.m.
Continental Breakfast
Sponsored by Consor Engineers
7:30 a.m.–3:45 p.m.
Exhibit Hall Open
10:00 a.m.–10:45 a.m.
Beverage and Networking Break
Sponsored by HDR
12:15 p.m.–1:30 p.m.
Lunch
3:00 p.m.–3:45 p.m.
Beverage and Networking Break

Sponsored by HNTB
2:30 p.m.–3:30 p.m.
Exhibit Hall Tours
Welcome to Austin

In my president’s message in the July 2019 issue of ITE Journal, I provided my reasons that you should attend an ITE Annual Meeting. I am glad that so many of you listened and have decided to join us here in Austin for #ITEAustin2019. This year’s meeting promises to be something truly special!

As transportation professionals we are all aware of the transformation being felt throughout the industry. The pressure to make sure we stay on the cutting-edge of these changes has never been stronger. That is why the theme of #ITEAustin2019 – Transportation Transformed – is so appropriate. The technical program is geared to provide you with the tools, skills, and insight you need to make sure you stay up-to-date on and in front of all the latest trends. I invite you to spend some time going through the program and identifying topics that don’t just apply to your current responsibilities but also ones that could facilitate your career advancement.

One of the most compelling reasons to attend any meeting is the face-to-face engagement that online relationships can lack. With more than 1,500 transportation professionals, there is no better opportunity to connect and catch-up. Take advantage of the myriad of networking opportunities to share insights from your experiences as a transportation professional or discuss solutions to some of your most vexing challenges. While I leave an Annual Meeting and Exhibit tired, I also depart exhilarated from the conversations I have had with attendees and inspired to return to my job with new ideas.

Another avenue to find solutions and hear about upcoming trends is through our exhibit hall. This year, our exhibit hall has grown by nearly 25% over 2018 and sold out in record time. Make the time to stop in to check out what is going on in the industry during our opening reception or during one of the meal functions taking place in the hall. Our exhibitors have a wealth of knowledge that you really want to take advantage of while you can.

Interested in being more involved in ITE? Have an idea for a project or publication? Now is the time to step forward by attending an ITE Council or Committee meeting. You can find a list of meetings taking place on page 16. Your knowledge, insight, and energy are most welcome!

#ITEAustin2019 is also a time to celebrate not only everything that makes being a transportation professional great but to honor TexITE District traditions. Come to the Awards Lunch as we recognize the accomplishments of our fellow members. Enjoy Texas hospitality during our opening and closing reception and try your hand at some Texas Hold ‘Em. While we are all hear to learn, don’t miss out on some fun too!

Please feel free to stop me when you see me this week! I’d love to catch up with you or learn more about your thoughts on ITE.

Bruce Belmore, P.Eng., PTOE, AVS(F)
International President
Acknowledgments

ITE would like to thank the following individuals for devoting their time and energy to help plan this conference.

Local Arrangements Committee
Chair, Rob Belarmino
Vice Chair, Brian Van DeWalle
Rebecca Bray
David Carey
Jason Crawford
Vivek Deshpande
John Haberman
Manu Isaacs
Valerie Kaiser
Adam Kaliszewski
James Schwerdtfeger
Julio Ramos
Cody D. Stone
Gaby Tassin
Anamaria Torres

Family Program Subcommittee
Chair, Gaby Tassin,
Vice Chair, Kirsten Tynch,
Nabil Gharian
Jenny Grote
Matthew Kruse
Jim Mallet
Mark Spencer

Abstract Reviewers
Steve Albert
Priyanka Alluri
Rob Belarmino
Joshil Bhatpuria
Eric Bollich
Rebecca Bray
Luana Broshears
Jeremy Chapman
Richard Coakley
Rich Cunard
Michael Cynecki
Michael Dannemiller
Philip Demosthenes
Vivek Deshpande
Masoud Ghodrat
Abadi
Jim Gough
John Habermann
Keith Hall
John Hansen
Dan Hardy
Herman Hill
Adam Hopps
Charles Huffine
Valerie Kaiser
Vishal Kakkad
John Kennedy
Yung Koprwoski
Wendy Krehbiel
Nathan Larson
Steve Latoski
Mark Lenters
Marilo Martin-Gasulla
Richard McGuinness
Gordon Meth
Alison Mills
Kris Milster
Bob Murphy
Sean Nix
Nathan O’Kane
Alan Parham
Jeff Riegner
Alex Rixey
Amir Rizavi
Karyn Robles
Troy Rother
Phil Rust
Don Samdahl
Peter Savolainen
Randolph Schulze
Jeffrey Smithline
Cody Stone
Sarah Syed
Todd Szymkowski
Gary Thomas
Steven Tupper
Kirsten Tynch
Lindsey Van Parys
Ken Voigt
Jay VonAhsen
Jared Wall
Brian Welch
James Witherspoon
We would like to extend our greatest appreciation and gratitude to the following organizations for their support:

**Sponsors**

**RUBY**
- Transoft Solutions

**EMERALD**
- PTV Group
- Siemens

**SAPPHIRE**
- ATG Alliance
- Cubic Trafficware
- Econolite
- HNTB
- Stantec

**TOPAZ**
- Structurepoint
- Arcadis
- Consor
- HDR
- Iteris
- Kimley-Horn
- MicroTraffic
- Neel-Schaffer
- Numetric
- WSP

**AMETHYST**
- CBB Transportation
- CJ Hensley & Associates
- MB
- MTJ Roundabout Engineering
- Paradigm
- Pelco Products
- RailPros
- Rodel Roundabout Analysis Software

*Separate Fee Required*
Program Notes and Housekeeping

Annual Meeting Mobile App
Access the ExpoPass event app to view essential events details about any last-minute changes, network with speakers and attendees, find exhibitors, and post about the meeting on social media.

To download the app:
• If you used this app previously, you should be able to log-in and view this year’s meeting.
• If you have not used this app, please go to expopass.com/ios or expopass/android and search for Expo Pass. Use the email associated with your ITE account. Once created, you will receive an email with a 4-digit code to verify your account.

If you have difficulty downloading or accessing the mobile app, please see ITE staff at the ITE registration desk (4th floor) or the ITE member services area (4th floor).

Troubleshooting:
• If you note that the ExpoPass app are not converting to Central Time, please check your app settings.
• If your ExpoPass app is not updating, please log out and log back in occasionally.

Thank you to Stantec for sponsoring the mobile app.

Very Important!

Earning PDHs (Professional Development Hours) and CMs (Certification Maintenance) Credits
To successfully earn Professional Development Hours (PDH)/Certification Maintenance (CM) credit for sessions, workshops and/or tours that you have attended, attendees must 1) add the sessions you plan to attend/earn credit for to your agenda within the mobile app PRIOR to the end of that session; and 2) Complete the session and/or tour evaluation when you receive the link via email at the conclusion of the Annual Meeting week.

The technical content of this meeting meets most state and provincial registration board requirements for P.E./P.Eng. Licensure, Professional Traffic Operation Engineers® (PTOE), Professional Transportation Planners® (PTP), Road Safety Professional Level 1® (RSP1), American Institute of Certified Planners (AICP), Traffic Signal Operation Specialists® (TSOS), and Florida Board of Professional Engineers (EXP0003871). Sessions, workshops and tours eligible for PDH/CM credit toward PTOE, PTP, RSP1, and/or AICP certification renewal have been identified in this program.

Accessing the Internet
In the meeting space, find the Hilton Meetings network. The password to access the internet while attending the Joint ITE International and Texas District Annual Meeting and Exhibit is ATG2019.

Internet access is provided courtesy of the Alliance Transportation Group.

ITE Member Services Lounge
The ITE Member Services Lounge, located on the 4th floor, besides registration, is the place for ITE members and non-members to come to learn about the organization as well as get assistance in navigating the meeting. Stop by to hear more about ITE’s programs and benefits such as e-Community, mentoring, professional development opportunities, and our flagship publications, *Trip Generation Manual*, 10th Edition and *Parking Generation Manual*, 5th Edition, as well as the debut of our new educator’s bundles of these two publications. There will be representatives from ITE Councils and Committees on hand to help guide people on how they can be more engaged with ITE.

Cell Phones
Please be courteous to fellow meeting attendees: set your phones to vibrate before entering sessions. If you need to make or take a call, please step out of a session.

Ticket Refund Policy
Tickets for individual events are sold on a space-available basis and may be purchased at the ITE Registration Desk (located on the 4th floor). No refunds are issued for unused tickets, whether purchased as part of the registration package or separately.
Payment Information
On-site registration and event fees may be paid by cash (U.S. Dollars only), check (for the exact amount), or credit card (American Express, Mastercard, or Visa). Make checks payable to ITE. ITE does not accept Discover.

Videotaping and Audio Recording
Videotaping or audio recording of sessions or technical exhibits as well as the unauthorized use of ITE-copyrighted material is prohibited.

Consent to Use Photographic Images
Registration and attendance at, or participation in, ITE meetings or other activities constitutes agreement by the registrants to ITE’s use and distribution of the registrant or attendee’s image or voice in photographs, videotapes, electronic reproduction, and audiotapes of such events and activities.

Event Tickets
Attendees with a green badge will be required to hand in a ticket for some events and all technical tours will require a ticket. Tickets are distributed with your badge. Spouse/guest tickets are distributed with the registered attendee’s badge. Please make sure to check your tickets when you pick up your badge. If your tickets are missing or incorrect, please notify our registration staff.

Badges
Registration name badges must be worn while attending all technical sessions, social functions, and while in the exhibit hall.

Disclaimer
The following program includes individuals confirmed at the time of publication. Information is subject to change. The views and opinions expressed by meeting participants are those of the participants and do not reflect official ITE Policy, unless so stated.

Statement of Inclusion and Equality
Individuals involved in developing, administering, and delivering learning events demonstrate high standards of professional conduct and do not discriminate against learners on the basis of gender, age, socioeconomic, or ethnic background, religion, sexual orientation, or disability.

Family Welcome Center and Child Care
The Family Welcome Center is located in Room 416. Join us for games, crafts, and general information on things to do with families in Austin. Austin’s Visitor’s Bureau will be in the family room at 3:00 p.m. on Sunday, July 21st to provide additional information on family experiences throughout the city and surrounding area.

The following child care providers are licensed, bonded, insured, and CPR-trained. Please note that ITE does not endorse any of the following companies. We are only providing them to you as a service and all contracting with these companies, must be done directly between the family and the company.

- Fairy Godsitters, LLC
  (512) 803-7377
- Grandparents Unlimited
  (512) 795-8776
- Austin’s Capital Grannies
  (512) 345-4577

Quiet Room
A quiet room is located in Room 613 from 9:00 a.m.–5:00 p.m., Sunday through Wednesday. This room is intended to provide a quiet, calm space, where attendees can step away from stress and over-stimulation. This room is not intended for conversations/meetings. Use of cell phones and other electronics is prohibited.

DFW Connector
Dallas–Fort Worth, Texas
WSP’s Role: Lead Designer

Completed six months ahead of schedule and under budget.

$1 billion project reconstructed 8.4 miles of highway and replaced one of the most congested interchanges in Texas.

Effectively doubled the capacity of the roadway system around the north entrance to DFW Airport.

We’ve planned, designed and managed the construction of highways from coast to coast.

Find out what we can do for you.

wsp.com/usa
Join our team!
Getting You There. Smarter.

Deploy Smart Intersection Technology Today
Whether it’s our Synchro® Traffic Analysis and Simulation software, used in more than 90 countries and now integrated with our ATMS Central Management software, or the fastest growing adaptive system SynchroGreen®, Cubic | Trafficware technology delivers. Explore the entire smart intersection family of products.

Visit us at booth #201
ITE 2019
Don’t miss our live demonstration with the City of Austin

Cabinets & Controllers
Legendary Quality

ATMS
Central Management Platform

POD
Wireless Vehicle Detection System

SynchroGreen
Real-Time Adaptive Traffic Management System

Connected Vehicle
Smart City V2I

Trafficware Cloud
Signal Performance Measures

www.trafficware.com
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<tr>
<th>Time</th>
<th>Hospitality</th>
<th>Workshops</th>
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**Joint ITE Board of Direction / LeadershipITE Lunch**
RM 616

**Leadership-ITE**
RM 615

**Coordinating Council Breakfast/Meeting**
RM 412

- **Sustainability Standing Committee**
  RM 408
- **TSMO Council**
  RM 404
- **Vision Zero Steering Committee Meeting**
  RM 400

**Workshops**
Refer to the mobile app or page 17 for more information

- **Smart Communities Task Force**
  RM 404
- **Transportation Consultants Council**
  RM 400
- **Transportation Planning Council**
  RM 402
- **Transportation and Health Task Force**
  RM 408
- **NRITS Steering Committee**
  RM 408

**TextITE Board**
RM 619

- **Parking Standing Committee**
  RM 404
- **Public Agency Council**
  RM 402
- **MaaS Steering Committee**
  RM 400

**Women in ITE Forum**
Governor’s Ballroom, 4th Floor

**First-Timer’s Orientation**
Meet at ITE Registration Desk

**First-Timer’s/Global Members/Sponsor Reception, Reverbery, Lower Lobby**

**“Welcome to Austin” Opening Reception in Exhibit Hall**
Grand Ballroom, 6th Floor

- **7:30 p.m.-11:30 p.m.**
  Texas Hold ‘Em Tournament
Governor’s Ballroom

- **8:00 p.m.-9:30 p.m.**
  Old Boardies Dinner**
Manuel’s Restaurant
(310 Congress Ave)
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<tr>
<th>Time</th>
<th>Hospitality</th>
<th>Technical Sessions</th>
<th>Technical Tours</th>
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<td>9:00 a.m.</td>
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<td>Awards Lunch and Leadership</td>
<td>ITE Graduation Governor’s Ballroom, 4th floor</td>
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<td>ITE Collegiate Traffic Bowl</td>
<td>Grand Championship Governor’s Ballroom, 4th floor</td>
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<td>Affinity Group Social Events</td>
<td>6:30 p.m.–10:00 p.m. Affinity Group Social Events 5:00 p.m.–8:00 p.m. Student Event Cedar Door Restaurant</td>
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### Agenda

**Tuesday, July 23**

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<tr>
<th>Time</th>
<th>HOSPITALITY</th>
<th>TECHNICAL SESSIONS</th>
<th>TECHNICAL TOURS</th>
<th>MEETINGS</th>
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<tbody>
<tr>
<td>7:00 a.m.</td>
<td>• 7:30 a.m.–8:30 a.m. Continental Breakfast</td>
<td>Concurrent Technical Sessions. Refer to the mobile app or pages 28-29</td>
<td>• ADA/Bicycle Facility Walking Tour*</td>
<td>• 7:00 a.m.–8:30 a.m. Women in ITE Brown Bag RM 616</td>
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<td>• City of Austin TMC/Traffic Signal Lab Tour*</td>
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<td>Beverage and Networking Break</td>
<td>Poster Session 2</td>
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<td>Transportation Safety Advancement Group (TSAG)** RM 619</td>
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<td>Industry Council Meeting RM 616</td>
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<td>Transportation Education Council RM 415</td>
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<td>Diversity Scholars Program RM 616</td>
<td>**Transportation Professional Certification Annual Meeting (TPCB) RM 615</td>
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<td>3:30 p.m.</td>
<td>Beverage and Networking Break</td>
<td>Poster Session 3</td>
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<td>**Legislation and Regulatory Affairs Committee RM 415</td>
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<td>4:00 p.m.</td>
<td>Grand Ballroom, 6th Floor</td>
<td>Capital Metro North Operations Facility Tour*</td>
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<td>6:30 p.m.–8:00 p.m. Closing Reception at Maggie Mae’s</td>
<td>Concurrent Technical Sessions. Refer to the mobile app or pages 31-33</td>
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<td>Refer to the mobile app or pages 38-39 for more information</td>
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Internet password: ATG2019  •  Join the conversation online: Use hashtag #ITEAustin2019  @ITEHQ  ITEHQ  ITEHQ
**Pathway Overview**

### Connected and Automated Vehicles
- **Bringing V2X to the Lone Star State:** Landmark Development and Initiatives in Texas, Tuesday, July 23, 8:30 a.m.–10:00 a.m., Room 410, Sponsored by WSP
- **Poster Session 2:** Tuesday, July 23, 10:00 a.m.–10:45 a.m., Grand Ballroom Foyer, 6th Floor, Sponsored by WSP
- **Impacts of Connected and Automated and Vehicle Technologies on Transportation Engineering and Planning,** Tuesday, July 23, 1:30 p.m.–3:00 p.m., Room 408, Sponsored by WSP
- **Lessons from Connected and Automated Vehicle Deployment Projects,** Tuesday, July 23, 3:45 p.m.–5:15 p.m., Room 400/402, Sponsored by WSP
- **Where the Rubber Meets the Road:** Linking Research and Practice, Wednesday, July 24, 9:00 a.m.–10:30 a.m., Room 408, Sponsored by WSP

### Complete Streets
- **Measuring Pedestrian Behavior in the Wild,** Monday, July 22, 11:15 a.m.–12:15 p.m., Room 406
- **Technical Tour: ADA/Bicycle Facility Walking Tour***, Tuesday, July 23, 8:30 a.m.–9:30 a.m.
- **The Future of Bike Signals and Pedestrian Detection Systems,** Tuesday, July 23, 8:30 a.m.–10:00 a.m., Room 412
- **Complete Streets Boulevards,** Tuesday, July 23, 1:30 p.m.–3:00 p.m., Room 406
- **Technical Tour: Capital Metro North Operations Facility Tour***, Tuesday, July 23, 1:30 p.m.–5:30 p.m.
- **Poster Session 3,** Tuesday, July 23, 3:00 p.m.–3:45 p.m., Grand Ballroom Foyer, 6th Floor
- **Measures and Guides for Linking Transportation and Health,** Tuesday, July 23, 3:45 p.m.–5:15 p.m., Room 408
- **Pedestrian/Bicycle Networks that Work!** Wednesday, July 24, 9:00 a.m.–10:30 a.m., Room 406
- **Technical Tour: Austin Rainey’s Street Historic District: Just Enough Space (with the Correct Priorities) Tour***, Wednesday, July 24, 3:30 p.m.–5:00 p.m.
- **Safe Transportation for Every Pedestrian Workshop***, Wednesday, July 24, 1:00 p.m.–4:00 p.m., Room 400/402

### Family
- **ITE Collegiate Traffic Bowl Grand Championship,** Monday, July 22, 4:30 p.m.–6:30 p.m., Sponsored by Siemens
- **ITE STEM Activity Day,** Tuesday, July 23, 8:00 a.m.–12:00 p.m., Room 416

### Leadership
- **Ethics and Social Justice in a Transformative Time Workshop***, Sunday, July 21, 2:00 p.m.–3:00 p.m., Room 412
- **Opening Business and Plenary Session,** Monday, July 22, 8:30 a.m.–10:30 a.m., Governor’s Ballroom
- **ITE Town Hall Meeting,** Monday, July 22, 11:15 a.m.–12:15 p.m., Room 408
- **District, Section, Chapter Leadership Forum,** Monday, July 22, 2:30 p.m.–4:00 p.m., Room 616
- **Local Leader Perspectives on the Future of Transportation,** Monday, July 22, 2:30 p.m.–4:00 p.m., Room 408

### Mobility as a Service
- **Mobility as a Service (MaaS) – Coming to a Neighborhood Near You,** Monday, July 22, 11:15 a.m.–12:15 p.m., Room 400/402
- **Mobility as a Service (MaaS) – TNC and Automated Vehicle Insights,** Monday, July 22, 2:30 p.m.–4:00 p.m., Room 400/402, Sponsored by Arcadis
- **Curbs and Hubs: Who Manages the New Frontier?**, Tuesday, July 23, 8:30 a.m.–10:00 a.m., Room 408
- **Poster Session 2,** Tuesday, July 23, 10:00 a.m.–10:45 a.m., Grand Ballroom Foyer, 6th Floor, Sponsored by WSP
- **Power Plenary,** Tuesday, July 23, 10:45 a.m.–12:15 p.m., Governor’s Ballroom, Sponsored by Transoft Solutions
- **Emerging Technologies for Micro-mobility: What Do We Know, What Do We Not Know, and What Do We Do? Workshop***, Wednesday, July 24, 1:00 p.m.–5:00 p.m., Room 406

### New Events
- **Women in ITE Forum,** Sunday, July 21, 4:00 p.m.–6:00 p.m., Governor’s Ballroom, 4th Floor
- **Exhibit Hall Tours,** Monday, July 22, 2:30 p.m.–3:30 p.m., Grand Ballroom
- **Younger Member Get Together,** Monday, July 22, 8:00 p.m.–10:00 p.m., Cedar Door
- **ITE STEM Activity Day,** Tuesday, July 23, 8:00 a.m.–12:00 p.m., Room 416

### Rural ITS
- **Rural ITS Town Hall Meeting,** Monday, July 22, 11:15 a.m.–12:15 p.m., Room 404
- **Enhancing Public Safety through Advances in Responder Technology,** Monday, July 22, 2:30 p.m.–4:00 p.m., Room 404
- **Rural Traffic and Safety Management,** Tuesday, July 23, 8:30 a.m.–10:00 a.m., Room 404
- **Bringing V2X to the Lone Star State:** Landmark Development and Initiatives in Texas, Tuesday, July 23, 8:30 a.m.–10:00 a.m., Room 410, Sponsored by WSP
- **Rural Incident Management and Performance Data,** Tuesday, July 23, 1:30 p.m.–3:00 p.m., Room 404
- **Creative Management of Data Driven Work Zones,** Tuesday, July 23, 3:45 p.m.–5:15 p.m., Room 404
- **Targeted Efforts to Improve Rural Road Safety Workshop***, Wednesday, July 24, 1:00 p.m.–4:00 p.m., Room 404

### Smart Communities
- **Generation Z – The Fortnite Evolution,** Tuesday, July 23, 8:30 a.m.–10:00 a.m., Room 400/402
- **Poster Session 2: Smart Communities/Big Data/Connected and Automated Vehicles/ Mobility as a Service,** Tuesday, July 23, 10:00 a.m.–10:45 a.m., Grand Ballroom Foyer, 6th Floor, Sponsored by WPS
- **Effective Transportation System Management and Operations Using Big Data,** Wednesday, July 24, 9:00 a.m.–10:30 a.m., Room 412, Sponsored by CBB Transportation Engineers + Planners

*Separate Fee Required
• ITE Collegiate Traffic Bowl Grand Championship, Monday, July 22, 4:30 p.m.–6:30 p.m., Governor’s Ballroom
  Sponsored by Siemens

• Student Event, Monday, July 22, 6:30 p.m.–8:00 p.m. Cedar Door Restaurant (201 Brazos St)

• Younger Member Get Together, Monday, July 22, 8:00 p.m.–10:00 p.m., Cedar Door

• National Operations Center of Excellence Transportation Technology Tournament, Tuesday, July 23, 8:30 a.m.–10:00 a.m., Room 406

• Student and Faculty Leadership Forum, Tuesday, July 23, 10:30 a.m.–12:00 p.m., Room 615

 TexITE Traditional TexITE Activity

• TexITE Board Meeting, Sunday, July 21, 1:00 p.m.–4:00 p.m., Room 619

• Ethics and Social Justice in a Transformative Time Workshop*, Sunday, July 21, 2:00 p.m.–3:00 p.m., Room 412

• Texas Hold ‘Em Tournament, Sunday, July 21, 7:30 p.m.–11:30 p.m., Governor’s Ballroom, Co-Sponsored by Iteris, CJ Hensch, Maldonado-Burkett, Paradigm, Pelco Products, Texas Highway Products, and Twincrest Technologies.

• TexITE Annual Business Meeting, Wednesday, July 24, 8:00 a.m.–9:00 a.m., Room 615

Transportation Systems Management & Operations (TSMO)

• Poster Session 1, Monday, July 22, 10:30 a.m.–11:15 a.m., Grand Ballroom Foyer
  Sponsored by Econolite

• TSMO Breakthroughs for Cities, Counties, and MPOs, Monday, July 22, 11:15 a.m.–12:15 p.m., Room 410
  Sponsored by Econolite

• Technical Tour: MoboTrex Facility Tour*, Monday, July 22, 2:30 p.m.–4:30 p.m.

• Cheaper by the Dozen – Practical Low Cost Roundabouts, Monday, July 22, 2:30 p.m.–4:00 p.m., Room 410
  Sponsored by Rodel Roundabout Analysis Software

• National Operations Center of Excellence (NOCoE) Transportation Technology Tournament, Tuesday, July 23, 8:30 a.m.–10:00 a.m., Room 406

• Technical Tour: City of Austin TMC/Traffic Signal Lab Tour*, Tuesday, July 23, 8:30 a.m.–10:30 a.m.

• Successful Signal Timing Strategies, Tuesday, July 23, 1:30 p.m.–3:00 p.m., Room 412
  Sponsored by Econolite

• What’s New in Trip and Parking Generation, Tuesday, July 23, 1:30 p.m.–3:00 p.m., Room 410

• Creative Management of Data Driven Work Zones, Tuesday, July 23, 3:45 p.m.–5:15 p.m., Room 404

• Improving Mobility and Safety through Alternative Intersection Design, Tuesday, July 23, 3:45 p.m.–5:15 p.m., Room 406
  Sponsored by MTJ Engineering

• Railroad Grade Crossings – Safe as They Can Be?, Wednesday, July 24, 9:00 a.m.–10:30 a.m., Room 404
  Sponsored by RailPros

• TSMO Workforce: Recruitment, Retention, and Career Development, Wednesday, July 24, 9:00 a.m.–10:30 a.m., Room 410

• Attaining Objectives and Performance Based Management of Traffic Signal Programs with Automated Traffic Signal Performance Measures Workshop*, Wednesday, July 24, 1:00 p.m.–4:00 p.m., Room 408

• State of the Art in Traffic Calming Workshop*, Wednesday, July 24, 1:00 p.m.–4:00 p.m., Room 412

• Use of Crowdsourcing to Advance Operations Workshop*, Wednesday, July 24, 1:00 p.m.–4:00 p.m., Room 410

Vision Zero

• National Towards Zero Deaths (TZD) Strategy: Road Map to Implementation Workshop, Sunday, July 21, 1:00 p.m.–5:00 p.m., Room 406

• Speed Management Noteworthy Practices Roundtable Workshop, Sunday, July 21, 1:00 p.m.–5:00 p.m., Room 410

• Best Practices in Speed Management, Monday, July 22, 11:15 a.m.–12:15 p.m., Room 412

• Methods and Practices for Setting Speed Limits, Monday, July 22, 2:30 p.m.–4:00 p.m., Room 406

• How Can We Collaborate to Reduce Fatalities on Our Transportation System, Monday, July 22, 2:30 p.m.–4:00 p.m., Room 412

• Implementing Vision Zero in Texas, Tuesday, July 23, 1:30 p.m.–3:00 p.m., Room 400/402

• Poster Session 3, Tuesday, July 23, 3:00 p.m.–3:45 p.m., Grand Ballroom Foyer

• Vision Zero Program Implementation, Tuesday, July 23, 3:45 p.m.–5:15 p.m., Room 410

• Managing Liability while Improving Safety Outcomes, Tuesday, July 23, 3:45 p.m.–5:15 p.m., Room 412

• Vision Zero and the Safe Systems Approach, Wednesday, July 24, 9:00 a.m.–10:30 a.m., Room 400/402

• Closing Plenary, Wednesday, July 24, 11:00 a.m.–12:00 p.m., Governor’s Ballroom

• Safe Transportation for Every Pedestrian Workshop*, Wednesday, July 24, 1:00 p.m.–4:00 p.m., Room 400/402

• Targeted Efforts to Improve Rural Road Safety*, Wednesday, July 24, 1:00 p.m.–4:00 p.m., Room 404
Meetings

Council and Committee Meetings

CAV Steering Committee Meeting,
Monday, July 22, 4:00 p.m.–5:30 p.m., Room 615B
ITE Coordinating Council Meeting,
Sunday, July 21, 8:00 a.m.–11:00 a.m., Room 412
Ethics Committee Meeting,
Monday, July 22, 10:45 a.m.–12:15 p.m., Room 615A
Joint Meeting: Complete Streets Council/ Pedestrian and Bicycle Standing Committee/ Transit Standing Committee/Lane Widths Task Force,
Monday, July 22, 4:00 p.m.–5:30 p.m., Room 615A
Joint Rail Grade Crossing Committee Meeting,
Monday, July 22, 4:00 p.m.–5:30 p.m., Room 616
MaaS Steering Committee,
Sunday, July 21, 2:45 p.m.-4:15 p.m., Room 400
Parking Standing Committee Meeting,
Sunday, July 21, 2:45 p.m.–4:15 p.m., Room 404
Public Agency Council Meeting,
Sunday, July 21, 2:45 p.m.–4:15 p.m., Room 402
Roundabout Standing Committee Meeting,
Monday, July 22, 10:45 a.m.–12:15 p.m., Room 615B
Smart Communities Task Force Meeting,
Sunday, July 21, 1:00 p.m.–2:30 p.m., Room 404
Sustainability Standing Committee Meeting,
Sunday, July 21, 11:00 a.m.–12:30 p.m., Room 408
TSMO Council Meeting,
Sunday, July 21, 11:00 a.m.–12:30 p.m., Room 404
Traffic Engineering Council Meeting,
Monday, July 22, 2:30 p.m.–4:00 p.m., Room 615A
Transportation and Health Task Force Meeting,
Sunday, July 21, 11:00 a.m.–12:30 p.m., Room 615A
Transportation Consultants Council Meeting,
Sunday, July 21, 12:00 p.m.–2:30 p.m., Room 400
Transportation Education Council Meeting,
Tuesday, July 23, 12:30 p.m.–2:00 p.m., Room 415
Transportation Forensics & Risk Management Council Meeting,
Tuesday, July 23, 9:30 a.m.–10:30 a.m., Room 615
Transportation Planning Council Meeting,
Sunday, July 21, 1:00 p.m.–2:30 p.m., Room 402
Transportation Safety Council Meeting,
Monday, July 22, 4:00 p.m.–6:00 p.m., Room 619
Vision Zero Steering Committee Meeting,
Sunday, July 21, 11:00 a.m.–12:00 p.m., Room 400

Board Committee Meetings

Advocacy Committee,
Monday July 22, 2:30 p.m.–4:00 p.m., Room 615B
Diversity and Inclusion Committee,
Tuesday, July 23, 3:00 p.m.–4:00 p.m., Room 415
Diversity Scholars Program,
Monday, July 22, 10:30 a.m.–12:00 p.m., Room 415B
Industry Council Meeting,
Tuesday, July 23, 12:30 p.m.–2:00 p.m., Room 616
LeadershipITE Steering Committee,
Tuesday, July 23, 9:30 a.m.–11:30 a.m., Room 415
Legacy Committee,
Tuesday, July 23, 9:30 a.m.–10:30, Room 616
Nominating Committee,
Monday, July 22, 2:30 p.m.–3:00 p.m., Room 415B
Women in ITE (brown bag),
Tuesday, July 23, 7:00 a.m.–8:30 a.m., Room 616
TPCB Meetings

TPCB Annual Meeting,
Tuesday, July 23, 1:30 p.m–2:15 p.m., Room 615
TPCB Board of Directors Meeting,
Tuesday, July 23, 2:30 p.m–5:15 p.m., Room 615

Learn more about ITE’s Councils and Committees!
Stop by the ITE Member Services Area (Governor’s Ballroom, 4th Floor) to speak to representatives from ITE’s Councils and Committees to find out what they are working on and how you can be involved!

Sunday, July 21
1:00 p.m. - 2:00 p.m.
• Traffic Engineering Council
2:00 p.m. – 3:00 p.m.
• Transportation Education Council
• Diversion and Inclusion Committee
3:00 p.m. – 4:00 p.m.
• Pedestrian and Bicycle Standing Committee
• Younger Members Subcommittee
4:00 p.m. – 5:00 p.m.
• Transit Standing Committee
• ONEITE Task Force

Monday, July 22
10:30 a.m. – 11:30 a.m.
• Transportation Planning Council
2:30 p.m. – 3:30 p.m.
• Transportation Forensics and Risk Management Council
3:30 p.m. – 4:30 p.m.
• ITE Ethics Standing Committee
• Family Program Subcommittee

Tuesday, July 23
8:45 a.m. – 9:45 a.m.
• Transportation Safety Council
9:45 a.m. – 10:45 a.m.
• Smart Communities Task Force
1:30 p.m. – 2:30 p.m.
• TSMO Council
• STEM Subcommittee
2:30 p.m. – 3:30 p.m.
• Transportation Consultants Council
• Advocacy Standing Committee
3:30 p.m. – 4:30 p.m.
• Public Agency Council
• Membership Standing Committee

Wednesday, July 24
10:00 a.m. – 11:00 a.m.
• Complete Streets Council

*Separate Fee Required
Technical Program

Attendees may add workshops to their schedule at any time by stopping by the Attendee Registration Desk on the 4th Floor. Please keep in mind that some workshops are close to reaching or have reached maximum capacity, and for that reason, attendees should not show up at workshop without first stopping at the Attendee Registration Desk.

Sunday, July 21, 1:00 p.m.–5:00 p.m.

National Towards Zero Deaths (TZD) Strategy: Road Map to Implementation Workshop
Room 406
Professional Development Credits: 3.0 PDHs/1 CM (AICP)

Learn what it takes to develop or advance a zero-fatality program, how to use tools to institutionalize your strategy, and best practices for engaging traditional and non-traditional partners in your effort. Through panel discussions, case studies, and networking with other practitioners, you’ll be armed with strategies and tactics you can implement in your community, region, or state. There is no fee to attend this workshop; however, you must register.

Speed Management Noteworthy Practices Round-table Workshop
Room 410
Professional Development Credits: 3.0 PDHs/CMs

This round-table workshop includes both presentations of noteworthy speed management examples and provides a chance for a conversation and sharing of local experiences. These round-table conversations will support the Federal Highway Administration’s efforts to identify, develop, and promote speed management noteworthy practices carried out by state/local governments to reduce speeding related fatalities. Registration for this workshop is limited to the first 50 registrants.

Workshop Facilitators:
Shauna Hallmark, Professor and Director, Institute for Transportation, Iowa State University, Ames, IA
Neal Hawkins, Associate Director, Institute for Transportation, Iowa State University, Ames, IA

This workshop has reached maximum capacity.

Sunday, July 21, 2:00 p.m.–3:00 p.m.

Ethics and Social Justice in a Transformative Time Workshop*
Room 412
Professional Development Credits: 1.0 PDH/CM

The focus of this workshop is on understanding the ethical issues that arise as transportation is transformed by the application of new/emerging technologies. The speakers in this session will talk specifically about how to maintain focus on upholding our ethical obligations to plan for the health, safety, and welfare of the public while embracing these changes. Hand-in-hand with these ethical issues are issues of social justice, as the space between those that can afford to use the new technologies and live in communities with adequate infrastructure and those that cannot continue to grow. Certificates will be provided for those attending this workshop for use in satisfying annual ethics training requirements.

Presenters:
Jeremy Chapman, Senior Traffic Engineer, American Structurepoint, Inc., Terre Haute, IN
Bill Schultheiss, Director of Sustainable Safety, Toole Design, Silver Spring, MD
Industry Council
ITE would like to recognize the founding members of the Industry Council. Launched in January 2019, the ITE Industry Council provides ITE with the opportunity to build closer working relationships and to increase collaboration with industry solution providers.

The goals of the Industry Council are to:

• Advise ITE Leadership on how it can better support the needs of solution providers and in turn better meet the needs of its members.

• Partner with ITE on better educating public sector and consulting members on existing, new, and emerging solutions to allow them to make better informed regulatory, management, and purchase decisions and maximize the benefit from the products and services that they receive.

• Support ITE efforts to develop the next generation of transportation professionals.

For more information on joining the Industry Council, visit https://www.ite.org/membership/industry-council/.
Monday, July 22, 10:30 a.m.–11:15 a.m.

Poster Session 1–Traffic Engineering / TSMO / Speed Management / Workforce
Grand Ballroom Foyer, 6th Floor

- Transportation Transformed with Resiliency as a Vital Component: The Case of Puerto Rico’s Surface Transportation System—Two Years After the Passage of Category 4 Hurricane Maria, Benjamin Colucci-Rios, Director PR ITAP, University of Puerto Rico at Mayagüez, Mayagüez, Puerto Rico
- Impacts of Detector Configuration on Performance Measurement and Signal Operation, Christopher Day, Assistant Professor, Iowa State University, Ames, IA
- Developing and Marketing Transportation System Management & Operations in a Multimodal Environment, Zuxuan Deng, Senior Transportation Specialist, District of Columbia Department of Transportation, Washington, DC and Kelli Raboy, ITS Program Manager, District of Columbia Department of Transportation, Washington, DC
- Dynamic Flashing Yellow Arrow System, Nicholas Erpelding, Senior Associate, SRF Consulting Group, Inc., Minneapolis, MN
- Next Generation Traffic Management for City of Tampa, Dean Gustafson, National ITS Practice Lead, HW Lochner, Inc., Mechanicsville, VA and Vic Bhide, Smart Mobility Manager, City of Tampa, Tampa, FL
- An Investigation of Demographics and Mode Choice Trends of For-hire Vehicle Trips, Bryce Hallmark, Research Assistant, Iowa State University, Ames, IA
- Low Cost Applications of Innovative Signal Timing Techniques: A Case Study of Traffic Responsive Signal Timing in Austin, TX, Tom Hartmann, Project Manager, Kimley-Horn, Dallas, TX and Jared Wall, Traffic Signal Engineer, City of Austin, Austin, TX
- Work Zone Traffic Management and Analysis: Tools and Methods, Anita Johari, Lead, Traffic Engineering, Wood Environmental & Infrastructure Solutions, Phoenix, AZ
- Public Sector Employment: Does It Live Up to the Expectations?, Ravali Kosaraju, Senior Engineer, City of San Antonio, San Antonio, TX
- Speed Studies and Safety Recommendations, Dhruva Lahon, Engineer, Kimley-Horn, Dallas, TX
- Managing Big Events in Small Towns: Texas A&M University Football: Technology, People, Advances, and Real-Time Communication, Madison Metsker-Galarza, Assistant Transportation Researcher, Texas A&M Transportation Institute, College Station, TX and Tim Lomax, TTI Research Fellow and Regents Fellow, Texas A&M Transportation Institute, College Station, TX
- Why an ICE is Nice, Devin Moore, Transportation Engineer, Kimley-Horn, Reno, NV
- Introduction of Alternative Road Pricing Concept: Vehicle Usage Time, Isha Narsaria, Graduate Research Assistant, Texas A&M University, College Station, TX and Vivek Gupta, Graduate Student, Texas A&M University, College Station, TX
- How Sustainability CSR and Socio-Economic Approach to Management Can Harness the Talents of Gen Z, Willie Roman, Senior Project Manager, Lee Engineering, Las Cruces, NM
- Your Signal Does What?…… The Hybrid Pedestrian Interval, Andrew Luna, Associate Engineer, Albert Grover & Associates, Fullerton, CA and David Roseman, City Traffic Engineer, Albert Grover & Associates, Fullerton, CA
- A Tool for Automatic Determination of the Roundabouts’ Gap-Acceptance Parameters using Computer Vision Techniques, Evarist Ruahzwe, Student, Florida State University, Tallahassee, FL
- Emergency Vehicle Pre-Emption: A Smart City Solution, Ryan Saville, Associate Vice President, TransCore, Salt Lake City, UT
- Crash Trends on Multilane Roundabouts in a Mature Community – Are We Thinking “Vision Zero”?; Hardik Shah, Director of Development, American Structurepoint, Inc., Indianapolis, IN and Mike McBride, Vice President, American Structurepoint, Inc., Indianapolis, IN
- Using ICE to Advance Innovative Intersections, Hillary Isebrands, Roadway Safety and Design Engineer, Federal Highway Administration, Denver, CO
- Round is the New Resilience, Ken Sides, Senior Transportation Engineer, Sam Schwartz Engineering, Tampa, FL
- An Evaluation of the Impacts of Road Tube Count Error on Capacity Analysis, Lisa Wilhelm, Events Manager, Miovision, Kitchener, Ontario, Canada
- When Traffic Responsive is the Best Solution, Allison Palumbo, Senior Engineer, Iteris, Inc., Austin, TX
- Taking TSMO On the Road - ITS Heartland’s Journey, Tom Hein, WICHway Traffic Management Center Manager, Kansas DOT, Wichita, KS and Mike Floberg, Director of Innovative Technologies, Topeka, KS and Slade Engstrom, Consultant, TranSystems, Kansas DOT, Wichita, KS

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Technical Program

Monday, July 22, 11:15 a.m.–12:15 p.m.

Measuring Pedestrian Behavior in the Wild
Room 406
Professional Development Credits: 1.0 PDH/CM
How do you measure pedestrian behaviors to ensure installation of the best pedestrian crossing solutions? Learn best practices from industry experts for bicycle and pedestrian count programs, how driver yielding increases pedestrian crossing safety, and using pedestrian crossing to connect people and places.
Moderator: 
Jeff Riegner, Vice President, Whitman, Requardt & Associates, Wilmington, DE
Presenters:
• Effect of Pedestrian Crossing Facilities on Driver Yielding Propensity, Carolina Baumanis, Research Engineering/Scientist Associate, Center for Transportation Research - University of Texas at Austin, Austin, TX and Joel Meyer, Pedestrian Coordinator, City of Austin, Austin, TX
• Bicycle and Pedestrian Count Programs: Best Practice, Krista Nordback, Senior Research Associate, University of North Carolina, Boulder, NC and Sarah O’Brien, Senior Research Associate, University of North Carolina Highway Safety Research Center, Chapel Hill, NC
• Improving Compliance at Enhanced Pedestrian Crossings - Solutions that Work, Grant Schultz, Professor, Brigham Young University, Provo, UT

Mobility as a Service (MaaS) - Coming to a Neighborhood Near You
Room 400/402
Professional Development Credits: 1.0 PDH/CM
This session showcases practical examples of Mobility as a Service deployments and their wide-ranging impacts to transportation systems today.
Moderator: 
Ryan Martinson, Transportation Engineer, Stantec, Calgary, AB Canada
Presenters:
• Dockless Mobility: The Challenges of On-street Management, A. Lee Austin, Traffic Engineer, Austin Transportation Department, Austin, TX and Jacob Culberson, Division Manager, Mobility Services, City of Austin, Austin, TX
• Beyond Transit Deserts: Using Public Data to Inform Dockless Vehicle Allocation and Reduce the Access Barrier, Jackson Archer, Transportation Planner, Big Red Dog Engineering, Austin, TX
• Leaning into Disruptive Technologies as They Transform our Community, Robert Spillar, Director of Transportation, Austin Transportation Department, Austin, TX

TSMO Breakthroughs for Cities, Counties, and MPOs
Room 410
Professional Development Credits: 1.0 PDH/CM
Sponsored by Econolite
This panel will explore breakthrough approaches to TSMO including the regional and local traffic incident management programs, enhancing TSMO solutions across jurisdictional boundaries, and city/state partnerships to improve situational awareness and response times for incidents along diversion routes.
Moderator: 
Patrick Son, Managing Director, National Operations Center of Excellence, Washington, DC
Presenters
• Eric Hill, Director of Transportation Systems Management & Operations, MetroPlan Orlando, Orlando, FL
• Jim Fox, Director - Transportation Operations Division, City and County of Denver, Denver, CO
• Nicolaas Swart, Division Manager, Maricopa County DOT, Phoenix, AZ

Internet password: ATG2019 • Join the conversation online: Use hashtag #ITEAustin2019 • @ITEHQ • ITEHQ • ITEHQ
Monday, July 22, 11:15 a.m.–12:15 p.m.

Best Practices in Speed Management
Room 412
Professional Development Credits: 1.0 PDH/CM

This session explores a variety of techniques that demonstrate how successful speed management practices can be used to minimize fatalities and injuries, increase mobility, and make communities more livable.

Moderator:
Kris Milster, Director of Government Accounts, Traffic Technology Services, Inc., Tampa, FL

Presenters:
• A Fresh Look at an Old Problem: Why (& How) Austin is Moving Towards Integrated Strategies in Speed Management, Amica Bose, Engineering Supervisor, Austin Transportation Department, Austin, TX and Sam Higgins, Project Manager, AECOM, Austin, TX
• Challenges and Opportunities of Using Part-Time Shoulder Lanes along HOT Lanes, Raj Paradkar, Senior Project Manager, Kimley-Horn, Ashburn, VA and Patrick Johnson, Traffic Engineer, Kimley-Horn, Reston, VA
• Shauna Hallmark, Professor and Director, Institute for Transportation, Iowa State University, Ames, IA

ITE Town Hall Meeting
Room 408

This session will provide members the opportunity to have a dialogue with the ITE Executive Committee – CEO, President, Past President and Vice President. ITE leadership will provide an overview of the strategic direction of ITE and answer questions from members. Three issues to be explored include the ITE name and brand, attracting more planners to ITE and ITE's global engagement.

Rural ITS Town Hall Meeting
Room 404

What are the current “hot topics” and emerging issues in rural intelligent transportation systems (ITS)? Hear technical, policy, and funding updates from national leaders; ask questions about trends and recent advancements; and join the conversation by helping to identify and prioritize additional issues. This discussion will kick off the Rural ITS Pathway that will take place July 22-23 during the meeting.
Join the conversation online: Use hashtag #ITEAustin2019
Technical Program

Monday, July 22, 2:30 p.m.–4:00 p.m.

Mobility as a Service (MaaS) - TNC and Automated Vehicle Insights
Room 400/402
Professional Development Credits: 1.5 PDHs/CMs

Sponsored by Arcadis

This session presents the interplay of technology, data, and shared mobility in a MaaS ecosystem, including the potential impacts of autonomous vehicles.

Moderator:
Brian Welch, Senior Manager, Planning Technical Services, Regional Transportation District, Denver, CO

Presenters:
• TNCs, Transit and Traffic: What Big Data Reveals, Laura Schewel, CEO, StreetLight Data, San Francisco, CA
• Shared Autonomous Vehicles (SAVs) Will Not Rival or Replace or Reshape (RRR) Public Transit System, Kousay Mohamad, University of Washington, Winnipeg, Manitoba, Canada
• Automated Vehicles and Shared Mobility: Answering the BIG Questions, Katherine Kortum, Senior Program Officer, Transportation Research Board, Washington, DC and Mark Norman, Resident Scholar, Transportation Research Board, Washington, DC
• Transportation Planners and Traffic Engineers to Align Traffic, Transit and TNC, Arjan Van Andel, Director of Customer Success, PTV Group, Arlington, VA

Cheaper by the Dozen - Practical Low-Cost Roundabouts
Room 410
Professional Development Credits: 1.5 PDHs/CMs

Sponsored by Rodel Roundabout
Software Analysis
Sponsored by Econolite

This session will focus on unique applications of low-cost roundabouts such as right-sizing and the use of practical design principles to demonstrate cost effectiveness, safety, and congestion relief benefits.

Moderator:
Lindsey Van Parys, Project Manager, GHD, Roseville, CA

Presenters:
• Rightsizing Modern Day Roundabouts, Michael Mastaglio, Practice Leader, Urban Engineers, Philadelphia, PA
• Brian Walsh, State Traffic Design and Operations Engineer, Washington State DOT, Olympia, WA
• Jay VonAhsen, Team Leader, MSA Professional Services, Dallas, TX
**Methods and Practices for Setting Speed Limits**
Room 406
Professional Development Credits: 1.5 PDHs/CMs

This session explores options for proposed changes to the Manual on Uniform Traffic Control Devices (MUTCD) procedures for setting speed limits based on local agency practitioner experience and recent research from the National Cooperative Highway Research Program, National Committee on Uniform Traffic Control Devices, and other national transportation organizations.

Moderator:
**Richard Retting**, National Practice Leader for Safety & Research, Sam Schwartz Transportation Consultants, Washington, DC

Presenters:
- **Should We Consider Different Approaches to Setting Posted Speed Limits?**, **Kay Fitzpatrick**, Senior Research Engineer/Program Manager/Regents Fellow, Texas A&M Transportation Institute, College Station, TX
- **William Lambert**, Traffic Engineer/Administrator, New Hampshire DOT, Concord, NH
- **Jonathan Adkins**, Executive Director, Governors Highway Safety Association, Washington, DC
- **James Le**, Senior Civil Engineer, City of Seattle, Seattle, WA

**Local Leader Perspectives on the Future of Transportation**
Room 408
Professional Development Credits: 1.5 PDHs/CMs

This session provides a forum for local transportation leaders to discuss their vision of the future of transportation to meet the variety of existing and emerging needs of their citizens. They will share both the successes, challenges, and opportunities for putting new ideas into practice and discuss the implications of innovation and new technologies.

Moderator:
**Dale Picha**, Traffic Operations Manager, Texas DOT, San Antonio, TX

Presenters:
- **Michael Morris**, Director of Transportation, North Central Texas Council of Governments, Arlington, TX
- **Shane Harbinson**, Assistant Director – Airport Planning and Development, City of Austin, Austin, TX
- **Jason JonMichael**, Assistant Director – Smart Mobility, City of Austin, Austin, TX
- **Dottie Watkins**, Vice President, Operations, CapMetro, Austin, TX
- **Darran Anderson**, Director of Strategy and Innovation, Texas DOT, Austin, TX
- **C. Michael Walton**, Professor, University of Texas, Austin, TX
Technical Program

Monday, July 22,
2:30 p.m.–4:00 p.m.

How Can We Collaborate to Reduce Fatalities on Our Transportation System?
Room 412
Professional Development Credits: 1.5 PDHs/CMs

This session focuses on the perspectives of a variety of stakeholder groups and how each group is working to reduce fatalities on the transportation system, as well as how they view successes and shortcomings in collaboration that could bring about greater impacts.

Moderator:
Michael Griffith, Director, Office of Safety Technologies, Federal Highway Administration, Washington, DC

Presenters:
- Michael Lee, Director of Engineering and Safety Operations, Texas DOT, Austin, TX
- Marcia Faschingbauer, CEO, Excargo and Texas State Vice President, American Trucking Associations, Houston, TX
- Adam Vanek, CEO, Mothers Against Drunk Driving, Irving, TX
- Justin Chrane, Major, Texas Highway Patrol, Austin, TX

Enhancing Public Safety through Advances in Responder Technology
Room 404
Professional Development Credits: 1.5 PDHs/CMs

This session focuses on the current work of the Transportation Safety Advancement Group (TSAG) in the areas of connected responder, advanced automatic crash notification (AACN), infrastructure to responder (I2R) technologies, and incident critical communications to promote life-saving technology advancements in public safety.

Moderator:
Elina Zlotchenko, Program Manager, U.S. DOT ITS Joint Program Office, Washington, DC

Presenters:
- The Connected Responder, Thomas West, Director, UC Berkeley, Richmond, CA and Skip Yeakel, Principal Engineer, Volvo Group North America, Greensboro, NC
- Pat Noyes, Principal, Pat Noyes & Associates, Boulder, CO
- Brent Williams, Senior EMS Advisor, FirstNet, Washington, DC

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Technical Program

Tuesday, July 23, 8:30 a.m.–10:00 a.m.

Generation Z – The Fortnite Evolution
Room 400/402
Professional Development Credits: 1.0 PDH/CM
This fun and interactive session will explore the desires of Generation Z and how transportation professionals today should consider those desires. Panelists include transportation industry leaders and future system users, ages 10–14. This session is part of the ITE STEM Activity Day.
Moderator: Eric Rensel, Vice President, Gannett Fleming, Harrisburg, PA
Presenters:
• Jennifer Toth, Transportation Director/County Engineer, Maricopa County Department of Transportation, Phoenix, AZ
• Cassie Jordan, Director, IT Strategy and Portfolio Management, Texas DOT, Austin, TX
• Roger Cohen, Senior Policy Advisor, Pennsylvania Secretary of Transportation, Harrisburg, PA

Bringing V2X to the Lone Star State:
Landmark Deployments and Initiatives in Texas
Room 410
Professional Development Credits: 1.5 PDHs/CMs
Sponsored by WSP
This session showcases ongoing and planned V2X deployments in Texas, including both urban and rural applications.
Moderator: Marcus Welz, President, Intelligent Traffic Systems, Siemens Mobility Inc., Austin, TX
Presenters:
• Jorge Riveros, Smart Mobility Program Manager, Austin Transportation Department, Austin, TX
• Kristie Chin, Director of Civic Innovation, Texas Innovation Alliance, UT Austin Center for Transportation Research, Austin, TX
• Jianming Ma, Engineer, Texas DOT, Austin, TX
• Nader Ayoub, Regional Vice President, Iteris, West Lake Hills, TX

Curbs and Hubs: Who Manages the New Frontier?
Room 408
Professional Development Credits: 1.5 PDHs/CMs
This session is a Socratic discussion built around a series of provocative questions. The panel will explore outcomes of active and passive planning related to the urgent topics of mobility hubs and curbside management.
Moderator: Andy Boneau, Director of Mobility Strategy, The Gotcha Group, Richmond, VA
Presenters:
• Andy Boenau, Director of Mobility Strategy, The Gotcha Group, Richmond, VA
• Jim Gough, Department Manager, Transportation Planning, WSP, Thornhill, Ontario, Canada
• Robin Aksu, Project Manager – Mobility Hubs, Los Angeles Department of Transportation, Los Angeles, CA
• Colin Roche, CEO, Swiftmile, San Mateo, CA

*Separate Fee Required
Rural Traffic and Safety Management
Room 404
Professional Development Credits: 1.5 PDHs/CMs

Roadways in rural areas and small communities present a different set of safety management issues than their urban and suburban counterparts. This session presents a cross section of traffic and safety management techniques for rural areas such as the use of drones, dilemma zone protections, and signal timing.

Moderator:
Daniel Beaty, Chief Transportation Planner, HNTB Corporation, Tallahassee, FL

Presenters:
• Evolving from Tradition Signal Timing to ATSPM for Safety, Mobility, and Small Communities, Paul Barricklow, Principal, Lee Engineering, Albuquerque, NM
• Performance-Based Safety Evaluation on a Systemic Level: The Wisconsin Story, Lee Gibbs, Senior Traffic Engineer, SRF Consulting Group, Inc., Madison, WI and Rebecca Szymkowski, Traffic Supervisor, Wisconsin Department of Transportation, Madison, WI
• Safety Evaluation of Dilemma Zone Protection System on High Speed Rural Intersections in Maryland, Sung Yoon Park, Transportation Engineer, Maryland DOT State Highway Administration, Hanover, MD
• Using Drones to Collect Speed Data: A Novel Approach, Alyssa Ryan, Graduate Research Assistant, University of Massachusetts Amherst, Waddington, NY

The Future of Bike Signals and Pedestrian Detection Systems
Room 412
Professional Development Credits: 1.5 PDHs/CMs

This session will address the challenges of detecting people walking and cycling at traffic signals and using these data to improve multimodal performance. In addition, case studies will be presented showing installation/implementation lessons learned from the perspective of a municipality and a designer.

Moderator:
Amir Rizavi, Director of Transportation Systems, VHB, New York, NY

Presenters:
• William DeSantis, Chair, NCUTCD Bicycle Technical Committee, VHB, Providence, RI
• Peter Koonce, Principal Engineer, Portland Bureau of Transportation, Portland, OR
• Dongho Chang, City Traffic Engineer, City of Seattle, Seattle, WA
• Joshil Bhatapuria, Graduate Engineer, Austin Transportation Department, Austin, TX

National Operations Center of Excellence (NOCoE) Transportation Technology Tournament
Room 406

This competition features students who have worked closely with state and local DOTs to solve real-world transportation problems using ITS and TSMO solutions.

Held by NOCoE and the U.S. Department of Transportation Intelligent Transportation Systems (ITS) Professional Capacity Building Program (ITS JPO PCB) program, nine student teams will have spent six months working with industry and academic advisors to learn about potential ITS and TSMO solutions via online training programs. Working as a team, the students use their experience, education, and new coursework to develop a solution or suite of solutions to directly address the originally-defined challenge problem.

During this session, each finalist team will give a 10-minute presentation in front of a panel of judges, where they’ll face questions and be expected to speak to the technical aspects of their solution. A team will then be selected as the 2019 Transportation Technology Tournament Winner and announced at the Power Plenary on Tuesday, July 23 from 10:45 a.m.–12:15 p.m.
Tuesday, July 23, 10:00 a.m.–10:45 a.m.

Poster Session 2 - Smart Communities / Big Data / Connected and Automated Vehicles / Mobility as a Service
Grand Ballroom Foyer, 6th Floor
Sponsored by WSP

- Macomb County Michigan - Ready for Connected Vehicles, John Abraham, Director, Macomb County Department of Roads, Mount Clemens, MI
- Virginia Statewide Integrated Mobility, Tyler Beduhn, Civil Engineer, Kimley-Horn, Reston, VA
- Nationwide Case Studies in Deploying Live Connected Vehicle Traffic Signals, Barbara Catlin, Marketing & Communications, Cubic (Trafficware), Sugar Land, TX and Marshall Cheek, Trafficware Director, Business Development, Cubic (Trafficware), Sugar Land, TX
- Dynamically Priced Toll and Transit Lanes for Surface Arterial Roadways, Dennis Eyler, Principal, SRF Consulting Group, Inc., Plymouth, MN
- Transportation Networks Role in Enabling Connected/Autonomous Vehicles and Smart Cities, James Gilbert, Director of Operations, GBA Systems Integrators, LLC, Lenexa, KS
- Innovative Route-Based Signal Control Priority System, Terry Gortney, Senior Signal Systems Engineer, Charlotte Department of Transportation, Charlotte, NC and Jon Ringer, Vice President, Econolite, Alpharetta, GA
- State and Local DOIs’ Contribution to the Disruption of Human Trafficking, John Habermann, Research Engineer, Texas A&M Transportation Institute, Waco, TX and Javonda Williams, Associate Dean, University of Alabama, Tuscaloosa, AL
- Application of Connected Vehicle Technology to Mitigate Secondary Crashes, Armana Hug, Graduate Research and Teaching Assistant, Florida International University, Miami, FL
- Mobility Hubs - The Equitable Congregation of Transportation, Jeffrey Kupko, Project Manager – Traffic, Michael Baker International, Columbus, OH
- Uses and Challenges of Collecting LiDAR Data from a Growing Autonomous Vehicle Fleet, Michelle Mekker, Assistant Professor, Utah State University, Logan, UT and Ashikur Rahman, Graduate Research Assistant, Utah State University, Logan, UT
- Cloud-Based Technology for Optimizing Signal Timing and Breakthrough Real-Time Adaptive Signal Control, Farhad Pooran, Vice President, Systems Product Management, Econolite Group, Inc., Anaheim, CA
- Practical Approaches to Leveraging Data for TSMO Applications - An Urban Perspective, Kelli Raboy, ITS Program Manager, District of Columbia Department of Transportation, Washington, DC
- A Safety and Mobility Assessment of Coordinated Signals Using Crowd Sourced Vehicle Trajectory Data, Stephen Remias, Assistant Professor, Wayne State University, Detroit, MI and Jonathan Waddell, Graduate Research Assistant, Wayne State University, Detroit, MI
- Using Simulation Tools to Evaluate the Impact of Connected and Automated Vehicles, Adam Groves, Regional Manager, PTV Group, Arlington, VA
- Context-Sensitive Parking Structures, Alexander VanHout, Transportation Planner, Arup, New York, NY and Eric Swenson, Senior Engineer, Arup, New York, NY
- The Popularity of Navigation Apps and Impact on Traffic Operations, Scott Poska, Senior Traffic Engineer, Alliant Engineering, Minneapolis, MN
- Big Data for Micro Analysis: Understanding Interchange Movements in Florida, Jim Hubbell, Solution Engineer, South Central Territory. Employer is StreetLight Data, Kansas City, MO

Tuesday, July 23, 10:45 a.m.–12:15 p.m.

Power Plenary
Governor’s Ballroom, 4th Floor
Professional Development Credits: 1.0 PDH/CM
Sponsored by Transoft Solutions

This session includes a panel of experts who will explore the issues surrounding Mobility as a Service, how it is being implemented in cities, what challenges and opportunities exist, and what the future holds.

Moderator:
Johanna Zmud, Director – Washington, DC Office, Texas A&M Transportation Institute, Washington, DC

Panelists:
- Roger Millar, Secretary of Transportation, Washington State DOT, Seattle, WA
- Karina Ricks, Director, Department of Mobility and Infrastructure, City of Pittsburgh, PA
- Gabriel Scheer, Senior Director of Strategic Development & Special Projects, Lime
- Kathleen Baireuther, Senior Manager, Ford Smart Mobility, Austin, TX
Tuesday, July 23, 1:30 p.m.–3:00 p.m.

Implementing Vision Zero in Texas, Room 400/402
Professional Development Credits: 1.5 PDHs/CMs

This session will cover the successes and challenges in implementing Vision Zero in Texas over the past several years, with a focus on lessons learned in developing action plans, examples of successful countermeasure implementations, evaluation of results and progress, working with advocates and the public, and FHWA resources that can help anyone who is trying to implement Vision Zero.

Moderator:
Robert Wunderlich, Director, Center for Transportation Safety, Texas A&M Transportation Institute, College Station, TX

Presenters:
• Stephen Ratke, Safety and Traffic Operations Specialist, Federal Highway Administration, Austin, TX
• Jay Blazek Crossley, Executive Director, Farm and City, Austin, TX
• Gregory Reininger, Principal Transportation Planner, City of San Antonio, San Antonio, TX
• Lewis Leff, Transportation Safety Officer, Austin Transportation Department, Austin, TX

What’s New in Trip and Parking Generation
Room 410
Professional Development Credits: 1.5 PDHs/CMs

This session introduces the audience to two of the industry’s most widely used parking resources (Parking Generation Manual, 5th Edition and Shared Parking) and provides a practitioner’s experience with new strategies for estimating person trip generation rates and innovative techniques for managing parking demand.

Moderator:
Milton Carrasco, President and CEO, Transoft Solutions, Richmond, BC Canada

Presenters:
• Kevin Hooper, Principal, Kevin Hooper Associates, Falmouth, ME
• Mary Smith, Senior Vice President, Walker Consultants, Indianapolis, IN
• Decision Support Methodologies for Parking Management on University Campuses, Okan Gurbuz, Ph.D. Student Research Assistant, University of Texas at El Paso, El Paso, TX
• Trip Generation: Beyond Vehicle Trip Totals, Dan Hennessey, Vice President, Director of Transportation, Big Red Dog Engineering, Austin, TX

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Tuesday, July 23, 1:30 p.m.–3:00 p.m.

**Complete Streets Boulevards**
Room 406  
Professional Development Credits: 1.5 PDHs/CMs  
Come see on-the-ground projects that have transformed car-centric boulevards into complete streets. This session will feature four completed complete street projects across the country and will include a round-table discussion on common strategies that create a successful complete street boulevard.

Moderator:  
Larry Marcus, Associate, Wallace Montgomery, Vienna, VA

Presenters:
- **Channelside Drive Transformed, Paula Flores**, Transportation Planning Practice Leader, Greenman-Pedersen, Inc. (GPI), Tampa, FL  
- **Transforming Minneapolis – It Starts with Hennepin Avenue, Allan Klugman**, Principal, Professional Engineer, City of Minneapolis, Minneapolis, MN and **Becca Hughes**, Transportation Planner, City of Minneapolis, Minneapolis, MN  
- **Creating a Vibrant Community in Rosslyn through Performance-Based Multimodal Planning and Implementation of Streets Reconfiguration, Tyler Beduhn**, Civil Engineer, Kimley-Horn, Reston, VA and **Erin Murphy**, Transportation Planner, Kimley-Horn, Reston, VA  
- **Alamo Street – Downtown San Antonio’s First Multiway Boulevard, Kerri Collins**, Vice President, Transportation Planning/Engineering, WSP USA, San Antonio, TX and **Mukul Mulhotra**, Principal Director of Urban Design, MIG, Inc., San Antonio, TX

**Impacts of Connected and Automated Vehicle Technologies on Transportation Engineering and Planning**
Room 408  
Professional Development Credits: 1.5 PDHs/CMs  
Sponsored by WSP

Impacts of Connected and Automated Vehicle technologies are discussed in this session in a practical manner to enable planners and engineers to begin to take the lessons learned to everyday practice.

Moderator:  
Matt Smith, Associate Vice President, Michael Baker International, Brighton, MI

Presenters:
- **Realizing Connected Vehicle Benefits - Now!, Alan Clelland**, Vice President West, Applied Information, Pasadena, CA  
- **Agnostic Technology for Future-Proof Cities, Michael Serra**, Pre-Sales Solution Engineers, Global Traffic Technologies, Oakdale, MN  
- **Automated Vehicle Symposium Roundup, Mark Norman**, Resident Scholar, Transportation Research Board, Washington, DC and **Katherine Kortum**, Senior Program Officer, Transportation Research Board, Washington, DC  
- **A Framework for Planning, Modeling, and Communicating CAV Impacts: NCHRP 20-102(09), Thomas Williams**, Transportation Planning Practice Leader, DKS Associates, Driftwood, TX

**Rural Incident Management and Performance Data**
Room 404  
Professional Development Credits: 1.5 PDHs/CMs  
This session presents information on data driven approaches and benefit-cost information to demonstrate the value of rural incident management as well as the use of performance data to support agencies’ TSMO programs.

Moderator:  
Valerie Briggs, Director, Office of Transportation Management, Federal Highway Administration, Washington, DC

Presenters:
- **Leveraging Big Data to Advance Traffic Incident Management in a Rural State, Andrew Brewer**, Assistant Division Engineer, Arkansas Department of Transportation, Little Rock, AR  
- **Use of On-Road Real-time Travel Time Information for Arterial Route Selection During Construction, Kent Collins**, Director of Public Works, City of Coppell, Coppell, TX and **Robert Brydia**, Program Manager/Senior Research Scientist, Texas A&M Transportation Institute, College Station, TX  
- **Analyzing the Benefits of Incident Management Programs in Utah, Mitchell Hadfield**, Graduate Research Assistant, Brigham Young University, Provo, UT  
Successful Signal Timing Strategies
Room 412
Professional Development Credits: 1.5 PDHs/CMs

Sponsored by Econolite

This session demonstrates how signal timing strategies can be used to successfully reduce congestion and improve transportation safety, quality, and reliability.

Moderator: Lynn LaMunyon, Discipline Leader – Transportation, Maser Consulting, Hamilton, NJ

Presenters:
- Implementation of Adaptive Traffic Signal Control System in the City of Ottawa, Canada, Chris Brinkmann, Manager, Traffic Operations, City of Ottawa, Ontario, Transportation Services Department, Ottawa, Ontario, Canada
- Using Data to Prioritize Traffic Signal Retiming Operations and Inform Decision Making, Jared Wall, Traffic Engineer, City of Austin Transportation Department, Austin, TX and Christine Cheng, Graduate Research Assistant, The University of Texas at Austin, Merritt Island, FL
- New York City Bus Rapid Transit Program, Emad Makarious, Administrative Engineer, New York City DOT, Long Island City, NY and Lihua Zhang, Senior Transportation Engineer, Transcore ITS, LLC, Long Island City, NY
- Utilizing Real-Time GPS Origin-Destination Data in Signal Operation and Timing Optimization: A Case Study, Mehdi Mohades, Associate Engineer, Iteris, Austin, TX and Venkatesh Jadhav, Senior Engineer, Iteris, Inc., Austin, TX

For almost 20 years, RailPros has been assisting clients in delivering projects with a variety of traffic-related rail components. Our expertise includes grade crossing safety enhancements, interconnected traffic signals, quiet zones, station designs, railroad flagging, rail corridor studies, railroad coordination, and grade separations.

Rail isn’t a part of our business, it IS our business.
Tuesday, July 23,
3:00 p.m.–3:45 p.m.

Poster Session 3 - Complete Streets/Vision Zero/Transportation and Health
Grand Ballroom Foyer, 6th Floor

- #kindergarten4cars - Public Perception of a Controversial Road Diet in a Vibrant College Town, Matthew Buckley, Vice President, Whitman, Requardt, and Associates, LLP, Wilmington, DE
- How Transportation Choices Impact Health & Wellness, Dyan Damron, Traffic Engineering & Planning Manager, Volkert, Inc., Franklin, TN
- Temporary Installations for Complete Streets - Challenges, Opportunities, and Lessons Learned, Lydia LaPoint, Civil Engineer, IBI Group, Irvine, CA
- Lane County Oregon Toward Zero Deaths, Steve Gallup, Transportation Engineering Services Supervisor, Lane County Department of Public Works, Eugene, OR
- Where Do I Belong? Redefining Space in an Age of New Mobility, Daniel Herrig, Transportation Engineer, City of Richardson, Richardson, TX
- Midtown Atlanta Case Study-New Data Collection Techniques in Automated Pedestrian Safety Analysis, Julie Levy, Project Delivery Manager
- Monon Boulevard - A Look at Trail Oriented Economic Development, Jeremy Kashman, Director of Engineering, City of Carmel, Carmel, IN
- Interactive Crash Data Analysis Dashboards, Yung Koprowski, Principal, Y2K Engineering, LLC, Mesa, AZ
- Bike Safety Trails No More: An Analysis of Sidepath Crashes in Michigan for Design and Operational Issues, Steven Lavrenz, Assistant Professor, Wayne State University, Detroit, MI
- GRTC Pulse BRT: Driving Community Advancement, Ashley Lickliter, Vice President, Kimley-Horn, Richmond, VA
- Accessibility Analysis of Labor & Delivery Services in Alabama, Margaret McNamara, Postdoctoral Researcher, University of Alabama, Tuscaloosa, AL
- Innovative Intersections and Mid-Block Facilities for ‘Problem’ Sites, Andrew O’Brien, Chairman, O’Brien Traffic, Hawthorn East, Victoria, Australia
- A Complete Transformation, Mark Rinnan, Principal Planner, Jacobs Engineering, Chicago, IL and Roberto Rodriguez, Consultant Program Manager, Knight Engineers & Architects, Chicago, IL
- Understanding the Impact of Pedestrian Safety Measures Through the Automated Analysis of Data from Traffic Monitoring Cameras, Joel Meyer, Pedestrian Coordinator, Austin Department of Transportation, Austin, TX
- Examining Driver Distraction and Crash Risk Using Naturalistic Driving Data, Peter Savolainen, MSU Foundation Professor, Michigan State University, East Lansing, MI
- Development of Pedestrian Surrogate Safety Measures using Computer Vision Technology, Sajad Shiravi, Traffic Engineering, Miovision Technologies, Kitchener, Ontario, Canada
- Innovation and Creativity for Evolving Bicycling Infrastructure: An Engineer’s Observations from the Seat of a Bicycle, Brooke Struve, Safety and Geometric Design Engineer, FHWA, Strasburg, CO
- Roadway Repurposing Through Roundabouts - A Case Study, Lindsey Van Parys, Project Manager, GHD, Lynnwood, WA
- Transportation Planning at MCAS Iwakuni, Japan: Accommodating Growth in a Multi-Modal Environment, Sara Clark, Office Director, TranSystems Corporation, Kansas City, MO
- Better Pedestrian Infrastructure for Better Sustainable Mobility, Peter Lipar, Assistant Professor, University of Ljubljana, Ljubljana, Slovenia
- Guidance for Comprehensive Transportation Review in the District of Columbia, Aaron Zimmerman, Senior Transportation Planner, District of Columbia Department of Transportation, Washington, DC
- Operating Austin’s Traffic Management Center (TMC) for a Growing Community, Kent Kacir, Vice President, Kimley-Horn, Dallas, TX and Brian Craig, Consulting Engineer, City of Austin, Austin, TX

*Separate Fee Required
Tuesday, July 23, 3:45 p.m.–5:15 p.m.

Creative Management of Data Driven Work Zones
Room 404
Professional Development Credits: 1.5 PDHs/CMs

Work zones create challenging driving environments from a safety and operational perspective. Data integration into work zone management supports active TSMO of the network of roadways impacted by construction. Presentations in this session highlight data applications for alternate route and detours, freeway lane closures, and incidents in work zones.

Moderator:
Egan Smith, Managing Director, ITS Joint Program Office, U.S. Department of Transportation, Washington, DC

Presenters:
• Real-time, Asynchronous Data in Incident Detection and Work Zone Management, Paul Avery, Technology Solutions Manager, AECOM, Austin, TX
• Operating a Smarter Detour Through Collaboration, Planning, and Technology, Tom Hartmann, Traffic Engineer, Kimley-Horn, Dallas, TX and David Halloin, Traffic Engineer/Project Manager, Kimley-Horn, Carrollton, TX
• Benefits and Challenges of Combining Sensor and Probe-Based Data to Quantify the Impacts of Freeway Lane Closures: A Practical Application in Texas, John Nevares, Austin District Traffic Engineer, Texas Department of Transportation, Austin, TX and Natalia Ruiz Juri, Director, Network Modeling Center, The University of Texas, Austin, TX

Lessons from Connected and Automated Vehicle Deployment Projects
Room 400/402
Professional Development Credits: 1.5 PDHs/CMs

Sponsored by WSP

Connected and automated vehicle deployments across the nation have had to overcome challenges. This session presents a few of the unique lessons learned from overcoming those challenges today and some of the challenges that may face autonomous vehicle deployments in the future.

Moderator:
Anthony Castellone, Transportation Division Manager, Pennoni Associates, Philadelphia, PA

Presenters:
• Transportation Cybersecurity, Joseph Gregory, Program Manager, Federal Highway Administration, Washington, DC
• First Autonomous Vehicle Deployment Carrying Passengers on Public Roads in Texas, Brian Moen, Assistant Director of Engineering Services, City of Frisco, Frisco, TX and Kerin Smith, Traffic Engineer, City of Frisco, Frisco, TX
• Challenges and Solutions for New York City Connected Vehicle Deployment, Robert Rausch, Vice President, TransCore, Harrisburg, PA
• An AV/CV Test Bed to Improve Transit, Bicycle, and Pedestrian Safety, Srinivasa Sunkari, Research Engineer, Texas A&M Transportation Institute, College Station, TX
Improving Mobility and Safety through Alternative Intersection Design
Room 406
Professional Development Credits: 1.5 PDHs/CMs

Sponsored by MTJ Roundabout Engineering

This session explores several innovative intersection and interchange treatments that demonstrate improved safety and congestion relief through reduced conflict points, lower operating speeds, and efficient flow of traffic.

Moderator: Gordon Meth, Transportation Expert, Robson Forensic, Cedar Knolls, NJ

Presenters:
- Evaluating the Performance and Safety of TxDOT's First Roundabouts and Diverging Diamond Interchange in El Paso, Randy Johnson, Senior Transportation Engineer, DKS Associates, Portland, OR and Aaron Berger, Transportation Engineer, DKS Associates, Portland, OR
- Method for Analyzing Alternative Geometrics at Unsignalized Intersections, Michael Schrader, Independent Consultant, Mankato, MN
- Analysis of an Alternative Design, Unique Continuous Turbo Intersection, Peter Yu, Student, Pullman, WA
- Modular Mini-Roundabout from Recycled Plastics - Alternative Approach of Construction, Wei Zhang, Highway Research Engineer, Federal Highway Administration, McLean, VA and Chenhui Liu, Postdoctorate Fellow, National Research Council, McLean, VA

Measures and Guides for Linking Transportation and Health
Room 408
Professional Development Credits: 1.5 PDHs/CMs

This session will cover trends, projects, and practices related to linking transportation and health for practitioners. From the evolution of the Safe Routes to School program to daily physical activity monitoring, speakers will discuss public health as it relates to transportation professionals. There will be a focus on mobility, first and last mile solutions, and tools for creating community connections.

Moderator: Shawn Leight, Vice President / Chief Operating Officer, CBB Transportation Engineers + Planners, St Louis, MO

Presenters:
- Monitoring Daily Activities and Linking Physical Activity Levels Attributed to Transportation Mobility Choices, Sina Famili, Graduate Research Assistant, University of Texas at Arlington, Arlington, TX and Shirin Kamali Rad, Graduate Research Assistant, University of Texas at Arlington, Arlington, TX
- Tools for Creating Community Connections, Daniel Hardy, Principal, Renaissance Planning Group, Arlington, VA
- Health Impact in 5 Years With Mass Transit and Safe Routes to School, Wendy Heaps, Senior Policy Analyst, Centers for Disease Control, Atlanta, GA
- Measuring the Public Health Impact of First/Last Mile Solutions, Saeedreza Ramezanpournegesi, Graduate Research Assistant, University of Texas at Arlington, Arlington, TX and Sheida Khademi, Graduate Research Assistant, University of Texas at Arlington, Arlington, TX

Tuesday, July 23, 3:45 p.m.–5:15 p.m.
Vision Zero Program Implementation
Room 410
Professional Development Credits: 1.5 PDHs/CMs
This session will highlight four projects that are working to reduce serious injuries and fatalities in cities across the United States. Hear from state and city transportation officials on data-informed projects that increase safety for all road users. This session will include projects on pedestrian studies, pedestrian signals, and road safety improvements.
Moderator:
David Yang, Executive Director, AAA Foundation for Traffic Safety, Washington, DC
Presenters:
• Data Driven Practical Solutions for Pedestrian Safety - East Lancaster Pedestrian Study, Koushik Arunachalam, Associate Vice President, Arcadis US Inc., Houston, TX
• Safety Improvement Projects in Austin, Texas: A Success Story, Upal Barua, Engineering Supervisor, Austin Transportation Department, Austin, TX and Boniface Njoroge, Senior Design Engineer, Austin Transportation Department, Austin, TX
• Vision Zero - New York City Department of Transportation’s Accessible Pedestrian Signals Program, Ernest Athanailos, Director of Signals and Street Lighting, New York City DOT, Long Island City, NY and James Celentano, Civil Engineer, New York City DOT, Long Island City, NY
• Saving Lives with Oregon’s All Roads Transportation Safety Program, Scott Mansur, Principal Engineer, DKS Associates, Salem, OR and Brian Chandler, Director of Transportation Safety, DKS Associates, Seattle, WA

Managing Liability While Improving Safety Outcomes
Room 412
Professional Development Credits: 1.5 PDHs/CMs
Four members of the Transportation Forensics and Risk Management Council will present on recent litigation trends, with special focus on vulnerable users, Vision Zero goals, and relevant personal/professional experiences.
Moderator:
Kirsten Tynch, Managing Director, VHB Virginia Beach, Virginia Beach, VA
Presenters:
• Gary Thomas, Principal Engineer, Kittelson LLC, College Station, TX
• Rock Miller, Principal, Rock E. Miller and Associates, Orange, CA
• Robert Seyfried, RK Seyfried and Associates, Evanston, IL
• Gary Norris, Senior Engineer, DN Traffic Consultants, Preston, WA
**Technical Program**

**Wednesday, July 24, 9:00 a.m.–10:30 a.m.**

**Pedestrian/Bicycle Networks That Work!**  
Room 406  
Professional Development Credits: 1.5 PDHs/CMs  
This session will feature various projects that make a designated network and protected routes for pedestrians and bicyclists. From across North America, this session will cover planning connections for pedestrians and bicycles that make necessary connections in our cities and improve multimodal first and last mile connections.  
Moderator:  
**Alex Rixey**, Associate, Fehr and Peers, Washington, DC  
Presenters:  
• **Network Study of Calgary’s Downtown Sky-walk System**, Irini Akhnoukh, Senior Transportation Engineer, McElhanney Consulting Services Ltd., Calgary, Alberta, Canada  
• **University of Minnesota Protected Bikeways: Implementing a Vital Low-Stress Network**, Chris Bower, Midwest Engineering Director, Toole Design, Minneapolis, MN and Simon Blenski, Transportation Planner, City of Minneapolis, Minneapolis, MN  
• **Rapid Ride: Building a Bike Network In One Year In Silicon Valley**, Peter Bennett, Transportation Specialist, City of San José, San José, CA  
• **Highway Safety Manual Predictive Analysis to Prioritize Pedestrian and Bicycle Safety Projects**, Zahidul Siddique, Principal Engineer, infraTECH Engineers & Innovators, LLC, Houston, TX  
• **Pedestrian Trees: A Case Study in How to Pick Low-Hanging Fruit for Improving Multi-Modal Last Mile Connections to Transit**, Joshua Smith, Project Manager, Lee Engineering, Dallas, TX and Kevin Kokes, Program Manager, Active Transportation, North Central Texas Council of Governments, Arlington, TX

**Railroad Grade Crossings – Safe as They Can Be?**  
Room 404  
Professional Development Credits: 1.5 PDHs/CMs  
Sponsored by RailPros  
This session discusses new ITE and USDOT resources that contain state of the practice information and current research on rail grade crossing design, operation, and safety; it also provides specific practitioner experience with methods for accommodating pedestrians and bicyclists at or near grade crossings.  
Moderator:  
**Kelly Morton**, Transportation Specialist, Federal Highway Administration, Phoenix, AZ  
Presenters:  
• **Automated Warning Announcements for Pedestrian and Bicycle Crossings for At Grade Light Rail**, Darryl Puckett, Research Scientist, Texas A&M Transportation Institute, Houston, TX and Michael Vickich, Senior Systems Analyst, Texas A&M Transportation Institute, Houston, TX  
• **Why is the Pedestrian Indication Dark? Accommodating Pedestrians at Traffic Signals near Railroad Grade Crossings**, James Robertson, Project Manager/Office Manager, Lee Engineering, LLC, San Antonio, TX and Troy Rother, City Traffic Engineer, City of College Station, College Station, TX  
• **Rapid Ride: Building a Bike Network In One Year In Silicon Valley**, Peter Bennett, Transportation Specialist, City of San José, San José, CA  
• **Highway Safety Manual Predictive Analysis to Prioritize Pedestrian and Bicycle Safety Projects**, Zahidul Siddique, Principal Engineer, infraTECH Engineers & Innovators, LLC, Houston, TX  
• **Pedestrian Trees: A Case Study in How to Pick Low-Hanging Fruit for Improving Multi-Modal Last Mile Connections to Transit**, Joshua Smith, Project Manager, Lee Engineering, Dallas, TX and Kevin Kokes, Program Manager, Active Transportation, North Central Texas Council of Governments, Arlington, TX

**Vision Zero and the Safe Systems Approach**  
Room 400/402  
Professional Development Credits: 1.5 PDHs/CMs  
This conversation circle session will introduce the Vision Zero Core Elements and then present on case studies from jurisdictions that have been authentically adopting them through a focus on Safe Systems. Vision Zero requires a shift in how communities approach decisions, actions, and attitudes. A fundamental part of this shift is moving from a traditional approach to a Safe Systems approach.  
Moderator:  
**David Petrucci**, Senior Safety Engineer, Federal Highway Administration, Baltimore, MD  
Presenters:  
• **Meghan Mitman**, Principal, Fehr and Peers, Walnut Creek, CA  
• **Leah Shahum**, Founder and Director, Vision Zero Network, San Francisco, CA  
• **Hillary Isebrands**, Roadway Safety and Design Engineer, Federal Highway Administration, Denver, CO  
• **Zuxuan Deng**, Senior Transportation Specialist, Transportation Operations and Safety, DC Department of Transportation, Washington, DC

*Separate Fee Required*
Where the Rubber Meets the Road: Linking Research and Practice
Room 408
Professional Development Credits: 1.5 PDHs/CMs
Sponsored by WSP
This session serves as a bridge between leading-edge practice in connected and automated vehicle technologies and research that is ready for implementation. It will also provide a perspective in better understanding connected and automated vehicle technologies from both the IEEE and ITE member point of view.
Moderator:
Carlos Ortiz, Chief Operating Officer, Advantec, Irvine, CA
Presenters:
• Realization of “A Connected Community”: Developing of Needs, Applications, and Solutions, John Dorado, Senior Project Manager, Advantec Consulting Engineers, Santa Ana, CA
• Steve Kuciamba, National ITS Practice Leader, WSP, Baltimore, MD
• Wei-Bin Zhang, Advisor, Intelligent Transportation Systems, UC-Berkeley, Berkeley, CA
• Matthew Barth, Director, Center for Environmental Research and Technology, UC-Riverside, Riverside, CA

TSMO Workforce: Recruitment, Retention, and Career Development
Room 410
Professional Development Credits: 1.5 PDHs/CMs
This panel discussion will touch on challenges facing transportation agencies such as advancing needs for technology knowledge, intergenerational management, matching skills to needs through existing public sector hiring practices, evolving recruiting practices to attract top talent in fields which transportation agencies traditionally have not hired, and providing competitive wages and benefits.
Moderator:
Carlton Urban, Vice President of Engineering Services, Lucent Group, Tampa, FL
Presenters:
• Alexandra Lopez, ITS Engineer, Gannett Fleming, Miami, FL
• Raj Ponnaluri, Traffic Systems Studies Engineer, Florida Department of Transportation, Tallahassee, FL
• Stephanie Ivey, Associate Dean for Research/Professor, University of Memphis, Memphis, TN
• Generation X - How to Understand and Connect with Your Gen Y and Gen Z Staff, Bill Delo, Managing Principal, IBI Group, Irvine, CA

Effective Transportation System Management and Operations Using Big Data
Room 412
Professional Development Credits: 1.5 PDHs/CMs
Sponsored by CBB Transportation Engineering + Planners
This session demonstrates how agencies can move into next generation Transportation Systems Management and Operations (TSMO) by understanding and using big data. Several practical leading-edge implementations of traffic control and management systems that used big data are presented as case studies.
Moderator:
Jason Crawford, Division Head, Texas A&M Transportation Institute, Arlington, TX
Presenters:
• How Big Data is Transforming the Way We Maintain Traffic Signals - TxDOT Houston’s Pilot Deployment of Traffic Signal Performance Measures along FM 1464, Samit Deo, Traffic/ITS Task Manager, Arcadis, Inc., Houston, TX and Kialee Gbosi, Project Manager, Texas Department of Transportation, Houston, TX
• Better Perspectives Enabled by Big Data - How Smart Sensors and Big Data Transform Traffic Operations Management, Xuewen Le, Senior Project Manager, Jacobs, Johns Creek, GA
• Providing Real-Time Connected Vehicle Data Over the Internet, Dennis Mitchell, Regional Traffic Engineer, DKS Associates, Portland, OR
• Developments in Signal Performance Measures: Increasing Efficiency & Usability, Lucy Richardson, Analyst, Kimley-Horn, Dallas, TX
This year’s closing plenary will be a TED talk-style format with special guest Dr. David Harkey, President of the Insurance Institute for Highway Safety (IIHS) and Highway Loss Data Institute (HLDI). Dr. Harkey came to IIHS-HLDI in January 2018 after serving as Director of the North Carolina Highway Safety Research Center for 12 years. With a long and distinguished career in the transportation safety field, Dr. Harkey will share his insights on Vision Zero and the roles that both infrastructure changes and new technology can play in driving down the number of fatalities and serious injuries on the transportation system.

Wednesday, July 24,
11:00 a.m.-12:00 p.m.
Governor’s Ballroom, 4th Floor
Professional Development Credits: 1.0 PDH/CM

This workshop will introduce participants to the FHWA Safe Transportation for Every Pedestrian (STEP) program that is promoting countermeasures proven to reduce pedestrian crash risk. The workshop will highlight the importance of pedestrian crossings to a complete transportation network, and attendees will learn how to apply the FHWA Guide for Improving Pedestrian Safety at Uncontrolled Crossing Locations to local plans, projects, and safety programs. The workshop includes interactive sessions and features case studies where the countermeasures have been implemented with successful safety outcomes. Peter Eun, with the FHWA Resource Center, will present and facilitate the STEP workshop.

During the first part of this workshop, participants will be joined by participants from the Targeted Efforts to Improve Rural Road Safety Workshop for an overview by Michael Griffith, FHWA Office of Safety of all the FHWA Every Day Counts program safety innovations since 2009 including: Safety Edge, High Friction Surface Treatments, Innovative Intersection and Interchange Designs, Road Diets, and Data-Driven Safety Analysis Tools. Opportunities still exist to get wider scale deployment, so come learn how to overcome challenges and obtain the resources you need to advance implementation of these practical safety solutions. Following this overview, each workshop will continue in separate rooms. (Note: this was originally listed as the Every Day Counts: Saving Lives for a Decade Workshop.)

Registration Fee: $10

This workshop is jointly sponsored by FHWA and ITE

Targeted Efforts to Improve Rural Road Safety Workshop*
Room 404
Professional Development Credits: 2.5 PDHs/CMs

This workshop will focus on the steps necessary to reduce the potential for serious injury and fatal crashes on rural roads by helping participants identify rural roadway safety issues and risks, as well as proven safety countermeasures to address those risks. Attendees will also learn how to develop roadway safety plans that use systemic analysis and implementation of proven solutions to improve the safety performance of their rural roads. Hillary Isebrands, with the FHWA Resource Center, will present and facilitate this workshop.

During the first part of this workshop, participants will be joined by participants from the Safe Transportation for Every Pedestrian Workshop for an overview by Michael Griffith, FHWA Office of Safety of all the FHWA Every Day Counts program safety innovations since 2009 including: Safety Edge, High Friction Surface Treatments, Innovative Intersection and Interchange Designs, Road Diets, and Data-Driven Safety Analysis Tools. Opportunities still exist to get wider scale deployment, so come learn how to overcome challenges and obtain the resources you need to advance implementation of these practical safety solutions. Following this overview, each workshop will continue in separate rooms. (Note: this was originally listed as the Every Day Counts: Saving Lives for a Decade Workshop.)

Registration Fee: $10

This workshop is jointly sponsored by FHWA and ITE

Safe Transportation for Every Pedestrian Workshop*
Room 400/402
Professional Development Credits: 2.5 PDHs/CMs

This workshop will introduce participants to the FHWA Safe Transportation for Every Pedestrian (STEP) program that is promoting countermeasures proven to reduce pedestrian crash risk. The workshop will highlight the importance of pedestrian crossings to a complete transportation network, and attendees will learn how to apply the FHWA Guide for Improving Pedestrian Safety at Uncontrolled Crossing Locations to local plans, projects, and safety programs. The workshop includes interactive sessions and features case studies where the countermeasures have been implemented with successful safety outcomes. Peter Eun, with the FHWA Resource Center, will present and facilitate the STEP workshop.

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Registration Fee: $10

This workshop is jointly sponsored by FHWA and ITE

*Separate Fee Required
Wednesday, July 24, 1:00 p.m.–4:00 p.m.

**Attaining Objectives and Performance Based Management of Traffic Signal Programs with Automated Traffic Signal Performance Measures Workshop***

Room 408  
Professional Development Credits: 2.5 PDHs/CMs

The workshop will explore how Automated Traffic Signal Performance Measures (ATSPMs) are being used to address safety, mobility, and reliability goals through improved signal timing. It will include a brief overview of ATSPMs, along with several DOTs sharing their experiences with ATSPM applications, and an open discussion with participants on some of the challenges that persist to ATSPM adoption.

A particular effort will be made to include agency experiences with ATSPM applications in the areas of safety and infrastructure management, in addition to the more common operations use cases. ATSPM technology, and the operational strategies they validate, allow agencies to maintain a proactive and customer-oriented signalized intersection management program, saving significant time and financial resources.

As part of the FHWA Every Day Counts 4 Technology Initiative, the implementation of ATSPMs has been accelerated significantly and has become a core part of signal management and operations in more than 30 states. ATSPM technology has already transformed agency business processes and will be key to evaluating the effectiveness of connected vehicle applications, as well as future strategies aimed at improving the safety and efficiency of travel for all types of roadway users.

Registration Fee: $10

This workshop is jointly sponsored by FHWA and ITE

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**State of the Art in Traffic Calming Workshop***

Room 412  
Professional Development Credits: 2.5 PDHs/CMs

As the need to protect residential areas from effects of traffic continues to increase, the traffic calming practice has evolved. Some traditional traffic calming measures remain, new ones have been engineered, while others have changed in their design, application, and/or effects. In 2017, ITE and FHWA developed the Traffic Calming ePrimer to serve as a resource for the public and profession to understand the toolbox of individual traffic calming measures and their effects.

The ePrimer can help to choose which measure(s) would be best to solve specific neighborhood traffic problems and have acceptable benefits and negative impacts. Based on the information contained in the ePrimer, the ITE Traffic Engineering Council recently revised the Traffic Calming Fact Sheets on the ITE website. These sheets have long been a popular staple on the ITE website. This workshop presents the current state of the traffic calming practice and presents the updated and new Fact Sheets on the individual traffic calming measures.

Registration Fee: $50

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**Use of Crowdsourcing to Advance Operations Workshop***

Room 410  
Professional Development Credits: 2.5 PDHs/CMs

The goals of this workshop are three-fold. First, this session strives to bring awareness of crowdsourced applications to transportation leadership, operations and ITS managers, and technical leads within agencies responsible for traffic management and operations. Second, this session strives to initiate dialogue that prompts agencies to consider using crowdsourced data. Third, this session aims to inform agencies of the FHWA Every Day Counts, Round 5 (EDC-5) Innovation, “Use of Crowdsourcing to Advance Operations,” and the suite of resources available to help state and local agencies accelerate the implementation of crowdsourced data for operations.

During this session, participants will hear from three practitioners about their experiences using crowdsourced data from cellular-based sources, smartphone apps, and social media in urban and rural regions. Participants will learn how these practitioners improved situational awareness, improved traveler information, and improved the management of signal systems, road weather response, incidents, work zones and more. After hearing from practitioners, participants will take part in multiple break-out sessions for deeper conversation with practitioners and experts on data and applications that are of greatest interest to your organization. Within each break-out session, you will collaborate with a smaller group of peers to delve into (1) whether a specific data source or application is right for your agency, (2) whether crowdsourced data you already collect can be applied to benefit other programs within your agency, and (3) how to navigate around barriers that might otherwise hinder your agency’s effective use of crowdsourcing.

Registration Fee: $10

This workshop is jointly sponsored by FHWA and ITE
Emerging Technologies for Micro-mobility: What Do We Know, What Do We Not Know, and What Do We Do? Workshop*

Room 406

Professional Development Credits: 3.0 PDHs/CMs

Beginning in 2017, a proliferation of start-ups and new firms distributed electric scooters for use in shared mobility systems (SMS) in cities across the United States, generating millions of trips per year. According to some reports, the adoption rate of e-scooter sharing systems is one of the highest among emerging mobility service providers, projected to outpace even Uber and Lyft, indicating that these technologies hold the potential to be truly transformative to the way in which people travel in the future. While the potential health, environmental, and congestion relief benefits of these emerging transportation systems—designed to provide “micro-mobility” and an affordable, low emissions alternative to driving—is promising, safety and planning concerns abound. City planners and engineers are on the front lines of designing safe systems—through roadway design and regulatory approaches—to accommodate emerging technologies and harness the transformative benefits these systems may offer, while mitigating safety concerns for all road users.

This workshop will explore what we know and don’t know about these emerging technologies (including operating characteristics and usage trends), and how cities can improve the ways in which they plan and design for emerging forms of low-speed travel via light electric vehicles (such as e-scooters) and coordinate with industry partners. The workshop will highlight the latest research and findings from a scan of agency practices regarding e-scooters in SMS and will discuss the extent to which national bicycle infrastructure design standards accommodate the needs of existing and emerging light vehicle travel modes. The workshop will also showcase lessons from local perspectives, including the City of Austin, who have active e-scooter mobility services. The workshop will include a tour of local micro-mobility infrastructure and the opportunity to try out an e-scooter.

Registration Fee: $10
Technical Tours*

Attendees may add technical tours to their schedule at any time by stopping by the Attendee Registration Desk on the 4th Floor. Please keep in mind that some technical tours are close to reaching or have reached maximum capacity and, for that reason, attendees should not show up for a tour without first stopping at the Attendee Registration Desk.

Monday, July 22, 2:30 p.m.–4:30 p.m.
MoboTrex Facility Tour*
Professional Development Credits: 1.0 PDH/CM
MoboTrex is a leading manufacturer of traffic control cabinets and signals with a 130,000 square foot factory in Austin, TX. This tour will showcase the manufacturing process required to take a cabinet from raw sheet metal to a finished and tested product, ready for installation at an intersection. Join us to see the amazing variety of different cabinet solutions required by agencies throughout the United States, and see first-hand the American workers that build these essential building blocks of transportation infrastructure.
Due to the sensitive and confidential nature of the content in a private manufacturing facility, competitors will not be able to attend this tour.
Registrants should meet at the 5th Street entrance of the Hilton Austin.
Registration Fee: $25

Tuesday, July 23, 8:30 a.m.–9:30 a.m.
ADA/Bicycle Facility Walking Tour*
This walking tour will include a visit to City of Austin’s 3rd St. corridor in the downtown area to highlight an eight block section that includes curb separated one-way bikes lanes on both sides of 3rd St. adjacent to a buffered pedestrian sidewalk. This model corridor will focus on context sensitive design elements, pavement markings, technical aspects of operating dedicated bike signal heads, and other construction challenges with retrofitting existing facilities.
Registrants should meet at the 5th Street entrance of the Hilton Austin.
This technical tour has reached maximum capacity.

Tuesday, July 23, 8:30 a.m.–10:30 a.m.
City of Austin TMC/Traffic Signal Lab Tour*
Professional Development Credits: 1.0 PDH/CM
The City of Austin Advanced Traffic Management System includes 1,024 traffic signals, 78 Pedestrian Hybrid Beacons, 526 CCTV Cameras, 571 School Zone Beacons, and 20 Dynamic Message Signs.
The City of Austin Transportation Management Center (TMC) is the headquarters for monitoring and managing traffic throughout the City. The TMC is staffed seven days a week, 24 hours a day, and is staffed continuously through large events. From the TMC, engineers and technicians monitor traffic patterns and adjust signal timing in response to traffic needs. Crews may be dispatched from the TMC as needed to respond to downed or malfunctioning traffic signals. The tour will include an overview of the TMC configuration and operations, and a tour of the Traffic Signal Training Area. This will be followed by a lightning talk by several agencies with TMCs, focusing on recommended practices based on lessons learned.
Registrants should meet at the 5th Street entrance of the Hilton Austin.
This technical tour has reached maximum capacity.

Tuesday, July 23, 1:30 p.m.–5:30 p.m.
Capital Metro North Operations Facility Tour*
Professional Development Credits: 2.0 PDHs/CMs
Capital Metro’s North Operations facility is the nerve center of Austin’s public transportation system. Home to the agency’s MetroRail, MetroRapid bus rapid transit, and local bus fleet, this facility is used for maintenance, operations, and dispatch 24-hours a day. As Austin grows, this facility is expanding. In the coming year, it will be the first electric bus charging center in Central Texas. North Operations is also houses Capital Metro’s brand new Operations Control Center, where security, rail, bus, and paratransit operations are coordinated.
Registrants should meet at the 5th Street entrance of the Hilton Austin.
Registration Fee: $25

Wednesday, July 24, 3:30 p.m.–5:00 p.m.
Austin’s Rainey Street Historic District: Just Enough Space (with the Correct Priorities)*
Professional Development Credits: 1.0 PDH/CM
The Rainey Neighborhood area has undergone a change in character in the last decade; what was once a quiet, residential street is now a bar and restaurant corridor surrounded by high-rise apartments, condominiums, and hotels. With more change coming after the area was re-zoned as Central Business District (CBD), the neighborhood’s transportation network has needed to change as well.
Registrants should meet at the 5th Street entrance of the Hilton Austin.
Registration Fee: $25

Attendees may add technical tours to their schedule at any time by stopping by the Attendee Registration Desk on the 4th Floor. Please keep in mind that some technical tours are close to reaching or have reached maximum capacity and, for that reason, attendees should not show up for a tour without first stopping at the Attendee Registration Desk.
Meeting Highlights

Sunday, July 21,
4:00 p.m.–6:00 p.m.
Women in ITE Forum
Governor’s Ballroom, 4th Floor
Join the Women of ITE subcommittee for a workshop on women’s issues in transportation—open to all genders! In this interactive workshop, you will learn about techniques to empower women in the workforce and the value of diverse perspectives across all aspects of the field. Engage in networking activities to build up a network of like-minded ITE members to help us all tackle these issues of diversity in the transportation field.

Sunday, July 21,
4:30 p.m.–5:00 p.m.
First-Timer’s Orientation
Meet at the Member Services Booth
This is a great opportunity for first-time attendees to hear from ITE staff on how to take advantage of everything you can at this meeting. ITE staff will go over the meeting schedule, point out key features and not-to-miss moments, as well as provide first-time attendees a tour of the key areas of the hotel where most ITE events will take place. The orientation will end at the First-Timer/Global Members/Sponsor Reception.

Sunday, July 21,
5:00 p.m.–6:00 p.m.
First-Timer’s/Global Members/Sponsor Reception
Reverbery (Lower Lobby)
Sponsored by Neel-Schaffer
Gather to meet our first-time attendees, celebrate our global members, and thank our meeting sponsors. Join members of ITE’s board of direction, ITE staff, and other notable attendees. Come meet some new people, create new relationships, and learn first-hand what ITE and this meeting can offer you!

Sunday, July 21,
6:00 p.m.–7:30 p.m.
Welcome to Austin Opening Reception
Grand Ballroom, 6th Floor
Come say “howdy pardner” to fellow attendees. Enjoy beverages and grab a bite to eat while checking out the exhibit hall, reconnecting with old friends, and shaking the hand of a new acquaintance.
Sunday, July 21,  
7:30 p.m.–11:30 p.m.  
Texas Hold ‘Em Tournament  
Governor's Ballroom  
Co-Sponsored by Iteris, CJ Hensch, Maldonado-Burkett, Paradigm, Pelco Products, Texas Highway Products, and Twincrest Technologies.  
It wouldn’t be an ITE Texas District meeting without the Texas Hold ‘Em Tournament. Join in the game for fun and prizes. No experience necessary. There is no cost to join this friendly tournament, which starts shortly after the Welcome to Austin Opening Reception. Snacks and drinks will be available.  

Monday, July 22,  
12:30 p.m.–2:15 p.m.  
Awards Lunch and LeadershipITE Graduation  
Governor's Ballroom  
Celebrate the best of the transportation profession and recognize tomorrow’s transportation leaders. This event is highly anticipated within the transportation industry as an opportunity to honor the achievements of your colleagues and friends. Additionally, celebrate with the 2019 LeadershipITE class as they graduate the program.  

Monday, July 22,  
2:30 p.m.–3:30 p.m.  
Exhibit Hall Tours  
Meet at Exhibit Hall Entrance, Grand Ballroom, 6th Floor  
These tours are designed to help you learn more about participating exhibitors and to help you determine which ones you may want to visit for longer conversations. Guides will stop at exhibit booths based on pre-set categories where representatives from the exhibiting company will provide a short, two-minute overview from exhibitors.  

Monday, July 22,  
4:30 p.m.–6:30 p.m.  
ITE Collegiate Traffic Bowl  
Grand Championship  
Governor’s Ballroom, 4th Floor  
Sponsored by Siemens  
One of the most attended and highly anticipated events of the conference! A lively crowd cheers and “claps” students to victory! The ITE Collegiate Traffic Bowl is an annual, Jeopardy-style competition among ITE student chapters using transportation planning and engineering topics for the categories, questions, and answers.  

Tuesday, July 23,  
10:30 a.m.–12:00 p.m.  
Student and Faculty Leadership Forum  
Room 614  
All students, student chapter leaders, faculty, district and section student liaisons, and others interested in supporting student chapters, are invited to join in a discussion on best practices for student chapters, facilitated by ITE’s Transportation Education Council and the Capital Area Section LAC. Topics will include educational resources available to faculty and students, chapter activities, fundraising, recruitment efforts, and career development opportunities. Come share your own ideas or learn what other chapters are doing in their respective districts – together we can help each other be the best chapters in ITE!  

The ITE Board STEM and Family Programs Committees have organized a fun half-day program of transportation-themed STEM activities for your kids and for the community kids of Austin. ITE cares a great deal about educating the next generation on the importance of STEM and the transportation profession. (Note: Registration is from 8:00-8:15 a.m. outside of Rooms 400/402)  

Tuesday, July 23,  
8:00 a.m.–12:00 p.m.  
ITE STEM Activity Day  
Kids see traffic signs, traffic signals, and roads everywhere. Yet most of them never learn about the science behind these everyday items. Want to help change that? Come learn about the amazing engineering that goes into the planning, design, and operation of our transportation system.
List of Exhibitors

- AAA Foundation (Booth 104)
- AFL (Booth 517)
- Aimsun Inc (Booth 205)
- AM Signal (Booth 617)
- American Traffic Safety Services Association (ATSSA) (Booth 302)
- APC by Schneider Electric (Booth 112)
- Applied Information, Inc. (Booth 115)
- ASCO Power Technologies (Booth 410)
- B&B Roadway Security Solutions (Booth 504)
- Bosch Security Systems (Booth 314)
- Brisk Synergies Tech Corp (Booth 217)
- Caliper Corporation (Booth 609)
- Campbell Company (Booth 614)
- Carmanah Technologies (Booth 604)
- CITEIL INC (Booth 615)
- Citilabs (Booth 203)
- CohuHD Costar (Booth 311)
- ComNet Communication Networks (Booth 413)
- Consolidated Traffic Controls, Inc (Booth 110)
- Cubic|Trafficware (Booth 201)
- Daktronics (Booth 509)
- DEZIGNLINE (Booth 403)
- Eberle Design, Inc. (Booth 401)
- Eco-Counter (Booth 706)
- Econolite (Booth 209)
- Electrotechnics Corporation (ELTEC) (Booth 216)
- EtherWAN Systems, Inc. (Booth 215)
- FLIR Systems Inc. (Booth 705)
- Gannett Fleming (Booth 616)
- Genetec (Booth 707)
- GGI Road & Traffic (Booth 700)
- GRIDSMART, A Cubic Company (Booth 103)
- Horizon Signal Technologies (Booth 412)
- Houston Radar LLC (Booth 502)
- International Road Dynamics, Inc. (Booth 417)
- Intuicom, Inc (Booth 114)
- ITEM Ltd. (Booth 100)
- Iteris (Booth 101)
- ITS Plus, Inc (Booth 116)
- JSF Technologies (Booth 208)
- K&K Systems Inc (Booth 313)
- Kimley-Horn (Booth 603)
- McCain, Inc. (Booth 701)
- McTrans Center (Booth 304)
- MetroCount (Booth 515)
- Miovision (Booth 503)
- MoboTrex (Booth 202)
- Multilink, Inc (Booth 600)
- Paradigm Traffic Systems (Booth 214)
- Pd’ Programming (Booth 703)
- Pedestrian and Bicycle Information Center (Booth 613)
- Pelco Products (Booth 109)
- Peek Traffic (Booth 508)
- Polara (Booth 405)
- PTV Group (Booth 117)
- Q-Free | Intelight (Booth 514)
- QWICK KURB®, Inc. (Booth 708)
- RTC Manufacturing (Booth 108)
- Sensys Networks (Booth 501)
- Siemens Mobility Inc. (Booth 301)
- Siemens Ruggedcom (Booth 602)
- Skyline Products (Booth 704)
- Texas Highway Products, LTD (Booth 512)
- TOMAR Electronics (Booth 601)
- Traffic Logix (Booth 510)
- TAPCO (Booth 608)
- Traffic Technology Services, Inc. (Booth 607)
- TransCore (Booth 511)
- Transoft Solutions (Booth 409)
- Trans-Plan (Booth 702)
- Transportation Professional Certification Board (Booth 102)
- UrbanLogiq (Booth 415)
- USDOT (Booth 315)
- Valerann (Booth 611)
- Wavetronix (Booth 309)

Exhibitors

AAA Foundation for Traffic Safety
(Booth 104)
Joanne But
jbut@aaafoundation.org
www.aaafoundation.org
Founded in 1947, the AAA Foundation for Traffic Safety is a nonprofit, publicly supported charitable research and education organization dedicated to saving lives by preventing traffic crashes and reducing injuries when crashes occur. The Foundation has long been recognized as a leader in traffic safety.

AFL
(Booth 517)
Danielle Phillips
danielle.phillips@aflglobal.com
www.aflglobal.com
AFL delivers the right combination of fiber optic cable, connectivity and equipment products for today’s enterprise applications. If you are looking for an application-based provider to help you to meet the challenges of the growing enterprise industry, turn to AFL for high-quality, end-to-end solutions that deliver a competitive advantage.

Aimsun Inc
(Booth 205)
Geline Canayon
geline.canayon@aimsun.com
https://www.aimsun.com
Aimsun is a software and services provider for strategic transport planning, traffic engineering and mobility management. Our clients include departments of transportation, engineering consulting firms, research institutions and developers of the latest technology in self-driving and connected vehicles.

AM Signal, Inc
(Booth 617)
Zac Ward
zac@amsignalinc.com
www.amsignalinc.com
AM Signal is a distributor of traffic signal equipment and ITS products. We are leading the way with products for Wrong Way Detection. Territories include: Colorado, Wyoming, Utah, New Mexico, Arizona, and Nevada; other states for Wrong Way Detection are Washington, Oregon, Hawaii, Montana, Idaho, Texas, Oklahoma, and Louisiana.
American Traffic Safety Services Association (ATSSA)
(Booth 302)
Jody Gordon
marketing@atssa.com
www.atssa.com
ATSSA’s core purpose is to advance roadway safety. ATSSA represents the roadway safety industry with effective legislative advocacy, traffic control safety training, and a far-reaching member partnership. As a trusted partner, the FHWA has awarded ATSSA 2016 grant funding to offer high-quality Work Zone Safety Grant training.

APC by Schneider Electric
(Booth 112)
Greg Pater
Gregory.Pater@Schneider-Electric.com
www.APC.com
As the industry leader in integrated physical infrastructure and software, APC by Schneider Electric provides reliable and innovative solutions that help keep the power on, and the data flowing. That’s Certainty in a Connected World. APC by Schneider Electric provides trusted battery backup systems (BBS) for transportation system integrators, traffic operation teams from state DOTs and municipalities, preparing them for any utility power challenges.

Applied Information Inc.
(Booth 115)
Alana Stander
astander@appinfoinc.com
appinfoinc.com
Applied Information is a leading developer of connected, intelligent transportation system (ITS) solutions designed to improve safety, reliability and mobility. Applied Information’s Glance Smart City Supervisory System platform allows cities to manage all their traffic and ITS assets on one web-based application. This includes 5 key areas: Traffic Intersections, School Beacons, Parking Guidance System, Mobile Vehicle Assets and ITS devices. AI’s Glance TravelSafety smartphone app connects drivers, cyclists and pedestrians for a safer commute.

ASCO Power Technologies
(Booth 410)
David Snelling
customecare@ascopower.com
www.ascopower.com
ASCO Power Technologies is the world leader in transfer switches, paralleling switchgear, load banks, surge suppressors and controls for critical power applications. ASCO innovations improve reliability for mission-critical operations like healthcare facilities and financial centers. Rely on ASCO expertise, customer support and 24/7 service emergency and standby power systems.

B&B Roadway Security Solutions
(Booth 504)
Terry Young
tyoung@bb-armr.com
www.bbrss.com
BRRSS provides our customers with traffic control devices and perimeter security barriers (warning gates, resistance barriers, bollards and active vehicle barriers) for managed lane, HOV, movable bridge and perimeter security applications. Our solutions provide peace of mind for the protection of both life and property in a variety of applications. “Your Barriers are our Business!”

Bosch Security and Safety Systems
(Booth 314)
Joel White
joel.white@us.bosch.com
Bosch Security and Safety Systems provides video sensors and communications systems for the transportation industry. Bosch solutions for ITS enable smoother traffic flow and higher efficiency using camera analytics to accurately assess potential safety issues and collect important data. Ruggedized cameras and compatibility with your existing infrastructure ensure reliable performance.

Brisk Synergies
(Booth 217)
Bruce Inwood
bruce.inwood@brisksynergies.com
www.brisksynergies.com
Brisk Synergies is the leader in automated road safety analysis. Applying surrogate safety analysis on connected traffic cameras, we help transportation engineers and automotive planners to better understand their road safety problems and identify solutions without waiting for collisions to occur. Our software platform provides automated video analysis of traffic flow including near-miss collisions, speed and turning movement counts for effective and immediate road safety diagnosis and evaluation of interventions.

Caliper Corporation
(Booth 609)
Paul Ricotta
paul@caliper.com
www.caliper.com
Caliper Corporation is the developer of TransCAD, the predominant and premier software package for travel demand modeling in North America. Caliper is also the developer of TransModeler, a micro-simulation package that provides unprecedented capability, usability, capacity, and dynamic traffic assignment functionality, along with seamless integration with legacy traffic engineering tools.

Campbell Company
(Booth 614)
Tony Brennan
info@pedsafety.com
www.pedsafety.com
Campbell Company is an ISO 9001:2015 certified company that designs, engineers, and manufactures pedestrian accessibility products. In a new 40,000 square foot manufacturing facility, Campbell Company continues its legacy as a leader in innovation and product development in Accessible Pedestrian Signals, Push Buttons, and Pedestrian Stations.
**Exhibitors Descriptions**

**Carmanah Technologies**  
(Booth 604)  
*Aaron Lockwood*  
traffic@carmanah.com  
https://carmanahtraffic.com/  
Carmanah helps improve safety with compliant traffic systems for the transportation industry. Since 2008, we have designed and manufactured the highest quality solar- and AC-powered traffic beacons and signs across North America for this purpose. Our products include rectangular rapid flashing beacons (RRFBs), school zone beacons, radar speed signs, 24-hour warning flashers, and LED enhanced signs.

**CITEL**  
(Booth 615)  
*Delfin Torres*  
dtortes@citel.us  
www.citel.us/  
Since 1937, CITEL Inc has manufactured a complete line of surge protective devices (SPD) to protect sensitive equipment from the harmful effects of lightning strikes and other power line disturbances. CITEL is a world leader in transient voltage surge suppression products and components including AC power surge protection, DC power surge protectors, RF coaxial surge suppressors and the component gas discharge tube (GDT) surge arrester.

**Citilabs**  
(Booth 203)  
*Chris Simons*  
csimons@citilabs.com  
www.citilabs.com  
Citilabs is a global provider of mobility analytics for businesses and government agencies. Headquartered in Sacramento, with offices in Atlanta, Tallahassee, Abu Dhabi, and Milan, Citilabs provides a comprehensive suite of solutions to empower those who create meaningful change for the betterment of their communities and organizations. With a 40-year history as a global industry leader, Citilabs supports nearly 2,500 clients in more than 70 countries.

**CohuHD Costar**  
(Booth 311)  
*Frank Sneed*  
frank@techonesales.com  
www.cohuhd.com  
CohuHD Costar™ designs and manufactures rugged HD CCTV video surveillance camera systems for critical infrastructure and transportation. Our video cameras monitor the most critical, sensitive environments such as border security and transportation, specifically traffic (ITS), maritime ports, airports and railways. Founded in 1946, CohuHD Costar manufactures in the U.S. the most reliable, rugged video cameras available. CohuHD Costar is a wholly-owned subsidiary of Costar Technologies, Inc. (OTC Markets Group: CSTI)

**ComNet Communication Networks**  
(Booth 413)  
*Frank Haight*  
fhaight@comnet.net  
www.comnet.net  
Communications Networks of Danbury, Connecticut, doing business as ComNet, is a Fiber Optic communication and hardened Ethernet product manufacturer. ComNet focuses on providing innovative communications networking solutions to the Intelligent Transportation Market. The product line consists of fiber optic video, data and audio transmission products as well as a broad Ethernet product line, designed to the specific requirements for Closed-loop traffic signalization and video detection systems, roadside CCTV surveillance, electronic toll collection, and variable message signs.

**Consolidated Traffic Controls, Inc.**  
(Booth 110)  
*Michael Hancock*  
mhancock@ctc-traffic.com  
www.ctc-traffic.com  
Consolidated Traffic Controls, Inc. has been serving the Traffic Industry since 1980.
CUBIC | Trafficware
(Booth 201)
Barbara Catlin
Barbara.Catlin@cubic.com
www.trafficware.com
CUBIC | Trafficware specializes in research, design, and development of electronic equipment and software for the transportation industry. Expertise includes solving traffic management challenges around the world, earning a reputation for unmatched quality and a leadership role deploying Smart City infrastructure. Trafficware’s flagship Synchro Traffic Analysis software is used in more than 90 countries.

Daktronics
(Booth 509)
Sarah Hill
sarah.hill@daktronics.com
https://www.daktronics.com/en-us
No other manufacturer can provide a truly integrated system from a single supplier. Our products are designed and manufactured to connect you with your drivers and passengers.

DezignLine
(Booth 403)
Susan Altenbach
Susan@DezignLine.com
www.DezignLine.com
DEZIGNLINE’s modular steel rail systems are strong, adjustable, quick-build solutions that separate traffic lanes from bike lanes and pedestrian zones. Designed for permanent or temporary applications, BIKERAIl™ and CURBRAIl™ are easy to install/uninstall, have a narrow footprint, require no excavation, and allow for storm water drainage. STEELGREEN™ Planters are portable, protective, and aesthetically-pleasing.

Eberle Design, Inc.
(Booth 401)
Birgit Olson
bolson@editraffic.com
www.editraffic.com
Eberle Design, Inc. is a global leader, developer and manufacturer of electronic intersection safety monitoring and vehicle detection products for the traffic, rail, access and traffic data collection industries. These devices enable transportation and access control professionals to easily integrate, automate, and manage traffic, highways and intersections efficiently and safely.

Eco-Counter
(Booth 706)
Olivia White
sales@eco-counter.com
eco-counter.com
Eco-Counter provides turn-key solutions for cyclist and pedestrian counting and data analysis. We offer a complete range of products and services to collect and analyze data, including high-quality counters, automatic and wireless data transmission, remote reading, and Eco-Visio, a professional online data analysis software, and in-depth exportable reports.

Econolite
(Booth 209)
Maral Hawa
mhawa@econolite.com
www.econolite.com
Econolite’s Intelligent Transportation System (ITS) solutions ease traffic congestion, provide safer mobility and improves quality of life. As the one-stop-shop leader for traffic management systems, sensor products, and services, our broad offerings also include planning and design of turnkey, multi-modal transportation systems, software engineering, traffic network implementation, integration, operations, and maintenance. Econolite is committed to the advancement of connected and autonomous vehicles, smart cities, and cybersecurity. For more information, visit us at www.econolite.com
Exhibitors Descriptions

**Electrotechnics Corporation**
(Booth 216)
Lori Lyle
sales@elteccorp.com
www.ELTECCORP.com

For nearly 50 years, we have been a world class manufacturer and innovator in traffic control signs, traffic safety equipment and overall traffic control products. As a preferred traffic industry supplier of warning systems and products for many municipalities, State Departments of Transportation and local contractors, we pride ourselves in providing a valuable service with traffic control products.

**EtherWAN Systems, Inc.**
(Booth 215)
Bill Starkey
https://www.etherwan.com/us
bill.starkey@etherwan.com

EtherWAN Systems, Inc. is a leading manufacturer of Hardened Ethernet, PoE, and Fiber connectivity products specifically designed for harsh and demanding environments. Founded in 1996 in Irvine CA, EtherWAN specializes in the designing and manufacturing of Ethernet Switches, Media Converters, Ethernet Extenders and Power over Ethernet products for applications where connectivity is crucial. Our goal is to provide quality reliable products for extreme applications, markets, and environments.

**FLIR Systems, Inc**
(Booth 705)
Darby Simshaw
darby.simshaw@flir.com
www.flir.com/its

FLIR Systems, Inc. develops, manufactures and distributes technologies that enhance perception and awareness. Our intelligent traffic solutions make roads safer, reduce congestion, and improve the efficiency of infrastructure around the world. FLIR strives to strengthen public safety and well-being, increase energy and time efficiency, and contribute to healthy and intelligent communities.

**Genetec**
(Booth 707)
Chelsea Hogg
chogg@genetec.com
www.genetec.com

Genetec Inc. is an innovative technology company with a broad solutions portfolio that encompasses security, intelligence, and operations. Genetec also develops cloud-based solutions and services designed to improve security, and contribute new levels of operational intelligence for governments, enterprises, transport, and the communities in which we live. For more information about Genetec, visit: genetec.com

**GGI Road & Traffic**
(Booth 700)
Sylvia Halligan
sylvia.halligan@thegetgoinc.com
ggiroadandtraffic.com

GGI Road & Traffic has been providing innovative road safety and efficient traffic management solutions for more than two decades in North America. We are the sole source supplier for our patented Quick Change Clips™ for LED change-outs. Our Clips replace conventional metal clips that can become seized or corroded allowing technicians to change an LED in just 4 clicks.
GRIDSMART, A Cubic Company
(Booth 103)
Jeff Peterson
jeff.peterson@gridsmart.com
GRIDSMART.com
The GRIDSMART System delivers actionable real-time data to traffic professionals in communities of all sizes around the world. With more than 45 billion vehicles accurately counted, GRIDSMART is the only system in the world to track vehicle trajectory from approach through the center of the intersection to exit.

Horizon Signal Technologies, Inc.
(Booth 412)
Craig Dawson
cdawson@horizonsignal.com
www.horizonsignal.com
Horizon Signal is committed to providing high quality, versatile portable traffic signal systems that will stand the test of time. We are dedicated to meeting the ever-changing needs of today's traffic control industry and those of our customers.

Houston Radar LLC
(Booth 502)
Stephanie Hilton
stephanie@houston-radar.com
houston-radar.com
Houston Radar is the leading supplier of Doppler and FMCW radars in the industry. We have an OEM portfolio of over 6 different speed and presence radars. Our Armadillo Tracker, Armadillo Crossfire, and SpeedLane Pro traffic collection products are the best traffic data collection devices.

International Road Dynamics Inc.
(Booth 417)
Jazmin Baker
jazminbaker@irdinc.com
https://www.irdinc.com/
International Road Dynamics Inc. (IRD) is a multi-disciplinary Intelligent Transportation Systems (ITS) company with the expertise to develop integrated solutions for unique and challenging transportation problems. Established in 1980, IRD has been recognized as a world leader in the design, development, and deployment of customized technology solutions.

Intuicom, Inc
(Booth 114)
Clara Alarcon
calarcon@intuicom.com
www.intuicom.com
Intuicom is a Wireless Hardware and Software manufacturer focused in providing communications for Traffic, ITS and Transportation applications. Intuicom offers wireless solutions and expertise ranging from Broadband to Serial, I/O to Ethernet/IP as well as GPS and GNSS. In addition, Intuicom also provides OEM products to those with unique application requirements.

ITEM Ltd
(Booth 100)
Dale Stewart
info@lanelight.com
www.lanelight.com
Since 2000 ITEM Ltd. has been dramatically improving visibility and safety at pedestrian crossings, bike lanes, stoplights, grade rail crossings, and wrong way warning systems with their LaneLight in-road warning systems, RRFB crosswalk systems, and LED enhanced traffic sign systems. LaneLight.com... A Safer Way Home.

Iteris, Inc.
(Booth 101)
web-contact@iteris.com
iteris.com
Iteris is the global leader in applied informatics for transportation, turning big data into big breakthrough solutions. We collect, aggregate and analyze data on traffic and roads to generate precise informatics that lead to safer transportation. Visit www.iteris.com for more information and join the conversation on Twitter, LinkedIn and Facebook.

ITS PLUS
(Booth 116)
Staci Ingram
Staci.ingram@itsplus3.com
www.itsplus3.com

JSF Technologies, Inc.
(Booth 208)
Phil Eastman
peastman@jsftech.com
www.jsftech.com
JSF Technologies, Inc. designs and manufactures solar-powered LED-equipped traffic safety devices for customers all over the world, right from our facility on Vancouver Island, BC. We specialize in high-efficiency, smart technology that is engineered to keep pedestrians, cyclists, and motorists safe. Contact us at info@jsftech.com.

K&K Systems Inc
(Booth 313)
Harry Haney
harry.haney@k-ksystems.com
k&ksystems.com
K&K Systems, Inc. offers a complete line of traffic safety products that include solar beacons, variable message boards, arrow boards, radar speed monitors, solar school zone flashers, solar 24 hour stop beacons, solar 24 hour warning flashers, and many other quality products that serve our industry today.
**Exhibitors Descriptions**

**Kimley-Horn**  
(Booth 603)  
Chelsea Cleary  
chelsea.cleary@kimley-horn.com  
kimley-horn.com  
Kimley-Horn, founded in Raleigh, NC in 1967, is a full-service engineering, planning, and environmental consulting firm with 3,600 employees located in 80+ offices nationwide. Kimley-Horn provides services in aviation, environmental sciences, ITS, land development, landscape architecture, transit, transportation, urban planning, and water resources.

**McCain, Inc.**  
(Booth 701)  
Nathan Welch  
info@mccain-inc.com  
www.mccain-inc.com  
McCain, Inc. is a national leader in intelligent transportation solutions. Since 1987, we’ve been enhancing mobility through an unparalleled combination of time-honored and cutting-edge solutions, improving the lives of millions. Now part of the SWARCO family of companies, we are pleased to introduce even more trailblazing products to our portfolio.

**McTrans Center**  
(Booth 304)  
Jonathan Czerenda  
mctrans@ce.ufl.edu  
https://mctrans.ce.ufl.edu  
McTrans develops, distributes and supports software for traffic engineering and transportation planning applications. It is a self-supporting center within the University of Florida Transportation Institute (UFTI). McTrans is the developer of the widely-used Highway Capacity Software (HCS) and the TSIS-CORSIM packages. McTrans also provides training and webinars on traffic engineering and highway capacity analysis.

**MetroCount**  
(Booth 515)  
Sean Heaney  
usasales@metrocount.com  
www.metrocount.com  
Established in Australia in 1987, MetroCount contributes to building sustainable and livable communities by delivering the most accurate and comprehensive data on the mobility of vehicles, bicycles and people. Our team works closely with road managers and authorities across the world to develop the most efficient and reliable traffic monitoring systems.

**Miovision**  
(Booth 503)  
Katerina Hyzyk  
khyzyk@miovision.com  
www.miovision.com  
Miovision helps build tomorrow’s smart cities by transforming the way traffic is managed today. Backed by the world’s most advanced traffic AI, our innovations in traffic signal planning and operations have made it possible for cities to improve their transportation experience since 2005. With offices in Kitchener, Canada and Cologne, Germany, Miovision serves over 17,000 municipalities worldwide.

**MoboTrex**  
(Booth 202)  
Brent Katauskas  
bkatauskas@mobotrex.com  
mobotrex.com  
Throughout decades of technological advancements, MoboTrex has held strong to its commitment to provide superior products, quality performance, and total customer satisfaction. MoboTrex’s goal is simple: to be the best. Our team of top notch employees put customers at the center of everything we do, through innovation, technology and service.

**Multilink**  
(Booth 600)  
Todd Downs  
tdowns@gomultilink.com  
www.gomultilink.com  
Multilink is an industry leading designer, developer, and manufacturer of products for voice, data, video, CATV, and FTTH applications. Multilink manufactures a full line of fiber optic products including pre-connectorized housings and cable assemblies, splice closures, slack storage devices, cable markers and tags, fiber-node cabinets, and environmentally controlled enclosures.

**Paradigm Traffic Systems, Inc**  
(Booth 214)  
Jerry Priester  
estimating@paradigmtraffic.com  
www.paradigmtraffic.com  
For 25 years Paradigm Traffic Systems has specialized in converting our customer’s ITS, intersection, or freeway management concerns into solutions. We carry a full-line of intelligent transportation system products and parts and have the customer service, technicians, and field support to bring your project from concept to completion.
Pd’ Programming
(Booth 703)
Pete d’Oronzio
Pdmagic.com
Pd’ Programming’s Intersection Magic Crash Records Analysis software program was the first interactive crash analysis program for MSDOS and then later for Windows. Both our company and flagship product celebrate their 32 year anniversaries this year! We are now proud to announce Crash Magic Online™, utilizing Magic Wands™ technology to provide browser-based analysis linked directly to your SQL database! Our clients span the breadth of government agency types. They include hundreds of US cities, counties, state DOTs as well as Canadian provinces and cities. This wide variety of users of our software has required us to become experts in the crash data analysis field, and has resulted in the most flexible piece of analysis software available.

Pedestrian and Bicycle Information Center
(Booth 613)
Kristin Blank
blank@hsr.unc.edu
www.pedbikeinfo.org
Since its inception in 1999, the Pedestrian and Bicycle Information Center’s mission has been to improve the quality of life in communities through the increase of safe walking and bicycling as a viable means of transportation and physical activity. As a national leader in pedestrian and bicycle research and resources, the PBIC develops and shares resources vital to advancing mobility, access, equity, and safety for pedestrians and bicyclists.

Peek Traffic
(Booth 508)
Gustavo de la Pena
gustavo.delapena@peektraffic.com
www.peektraffic.com
Peek Traffic is a leading manufacturer and technology developer in the ITS and traffic management industries. Peek enjoys the longest industry heritage with over 90 years and was the first traffic control manufacturer that introduced the ATC controller more than 10 years ago. To date Peek has deployed more than 20,000 ATC controllers worldwide.

Pelco Products, Inc.
(Booth 109)
Paul Koenig
sales@pelcoinc.com
www.pelcoinc.com
Pelco Products, Inc. is an Oklahoma based, family-owned business specializing in designing, engineering, manufacturing and distributing. Founded in 1985, Pelco employs over 300 Team Members in 315,000 square feet of manufacturing space. Pelco is dedicated to serving Traffic and Utility industries through Innovative Solutions, Quality Products & Unparalleled Customer Service.

Polara
(Booth 405)
Matt Baker
mbaker@polaraent.com
www.polara.com
Polara, an ISO 9001:2015 registered company, is the leading manufacturer of Accessible Pedestrian Signals (APS) and ADA push buttons. Our products meet or exceed rugged specs certified by an independent lab. The newly introduced iNavigator (intelligence-added) is a full-featured system that can be communicated with, and programmed wirelessly through Bluetooth technology. It has both audible and vibro-tactile features that give the pedestrian information at every phase of the walk cycle, allowing agencies the flexibility they need to meet the needs of their citizens. Come see the iNavigator at Booth 405!

PTV Group
(Booth 117)
Arjan van Andel
arjan.vandel@ptvgroup.com
https://ptvtraffic.us/
PTV Group takes a holistic approach that integrates all aspects of traffic, transport and logistics to create and promote sustainable mobility. Recognized as global market leader, PTV develops intelligent software solutions for transport logistics, traffic planning and management. Thus cities, companies and people save time and money, enhance road safety and minimize the impact on the environment.

Q-Free | Intelight
(Booth 514)
Ryan Barlow
ryan.barlow@q-free.com
www.q-free.com
Q-Free | Intelight leads the traffic signal operations and management industry by consistently delivering off-the-shelf, innovative products that are both cutting-edge and user-friendly. We believe true customer service is about collaboration. As a result, we embrace open standards and takes a modular approach to product development so our software and hardware can function seamlessly with other products – including those built by customers or competitors. What’s more, we leverage the latest technologies and design standards to create solutions that are consistently intuitive and easy-to-use across all devices which, in turn, increases productivity for everyone – from the technician in the field, to those in the management center tasked with remotely monitoring and managing the system.

POLARIS
(Booth 708)
Ted Parson
Ted@QwickKurb.com
www.QwickKurb.com
Qwick Kurb, as the only traffic separator system suitable for high ADT environments, is used extensively in all climates, to separate and channelize traffic movement for optimum vehicular flow - ideal for left turn restrictions, rail crossing safety, bike lane separation, median islands. Formidable uprights command motorist respect in difficult locations.

RTC Manufacturing, Inc.
(Booth 108)
Ron Featherston
ron@rtc-traffic.com
www rtc-traffic.com
RTC has been the industry leader in school zone safety since 1987 and School Zone Flasher Systems are our bread-and-butter. High-quality equipment backed by the RTC AP22 Time Switch, cellular communication, RTC ConnectTM software, and GuardianTM monitoring will make your school zones safe and efficient.
Exhibitors Descriptions

Sensys Networks
(Booth 501)
Vince Ferrinho
marketing@sensysnetworks.com
https://sensysnetworks.com/
Sensys Networks improves the way people travel through cities by providing traffic visionaries and implementers with innovative transportation management solutions. How do cities become smarter, safer and greener? Start with better traffic detection and data. To learn more, start at booth #501.

Siemens Mobility Inc.
(Booth 301)
Franziska Wagner
franziska.wagner@siemens.com
www.usa.siemens.com/intelligenttraffic
Leading the way to seamless mobility. Ensuring efficient transportation is a key challenge for both cities and mobility providers. To mitigate this challenge, we must seamlessly integrate technologies to reduce congestion, improve travel time, and increase safety. Siemens ITS will lead the way to seamless, smarter mobility with a complete range of cutting-edge solutions and services.

Siemens Ruggedcom
(Booth 602)
Randy Carl
randall.carl@siemens.com
www.usa.siemens.com/ruggedcom
Reliable data transmission is a must for intelligent transportation systems along highways, tunnels and inner-city areas. Siemens RUGGEDCOM offers the most comprehensive portfolio of networking products for road installation with field-proven reliability to operate in environments of extreme temperature, humidity, vibration, EMI, and dirt.

Skyline Products
(Booth 704)
Tim Hershberger
Tim.Hershberger@skylineproducts.com
www.skylineproducts.com
Skyline Products helps solve traffic flow, parking and safety problems through custom, engineered-to-order, intelligent transportation systems. Since 1970, Skyline has invested heavily in research and development to create the industry’s most advanced and reliable ITS-Grade® dynamic message sign and software solutions that are Designed to be Bold, Engineered to Last.

TAPCO
(Booth 608)
Hannah Perret
hannah.perret@tapconet.com
tapconet.com
TAPCO manufactures, services and distributes a wide portfolio of traffic and parking safety solutions. Since 1956, we have set the standard for delivering reliable, cutting-edge traffic safety enhancements. From our world-renowned line of LED-enhanced BlinkerSign solutions to our pedestrian crossing products, safety is at the heart of all our innovations.

Texas Highway Products, LTD
(Booth 512)
Darold R. Cherry
dcherry@trafficsignals.com
www.Trafficsignals.com
Texas Highway Products, based out of Round Rock, Texas, has been a leader in the traffic signal industry in Texas for over 40 years. Texas Highway Products distributes top end traffic control equipment to contractors and government entities.

TOMAR Electronics
(Booth 601)
Tom Kay
tom.kay@tomar.com
www.tomar.com
Traffic Logix
(Booth 510)
James Weatherall
jweatherall@trafficlogix.com
www.trafficlogix.com
Traffic Logix is an innovative ITS company offering smart solutions for safer roads. With speed display and variable message signs; speed trailers; speed cameras; and rubber speed humps, we offer the tools you need for better law enforcement on your streets.

Traffic Technology Services, Inc.
(Booth 607)
Kiel Ova
info@traffictechservices.com
https://www.traffictechservices.com
TTS is a technology company and information service provider for connected vehicle applications. TTS utilizes existing public infrastructure to communicate to traffic signals, predict traffic signal operations up to several minutes, and deliver information using cellular communication to end users. TTS is the supplier for Audi connect® Traffic Light Information.

TransCore
(Booth 511)
Clint Holley
clint.holley@transcore.com
transcore.com
TransCore provides fully-engineered transportation solutions, including tolling systems, ITS infrastructure and adaptive traffic management systems. We provide agencies with Smart City applications to manage their traffic and currently manage over 29,000 signalized intersections worldwide. Come see us at Booth #511 to learn more about our Solutions and how they can help your agency.

Transsoft Solutions Inc.
(Booth 409)
Andrew Yang
info@transoftsolutions.com
transoftsolutions.com
Since 1991, Transoft Solutions has been developing productivity-enhancing CAD software for the transportation engineering design community. Headquartered in BC, Canada, Transoft has offices worldwide serving more than 50,000 users in over 130 countries. Our suite of products including AutoTURN, OTISS, GuideSIGN, TORUS Roundabouts, and NEXUS DDI are used everyday by government transportation agencies and top AEC design firms. Drop by booth 409 and see our latest innovative tools for ADA ramps and bikes.

Trans-Plan
(Booth 702)
Shadi Hagag
administrator@trans-plan.com
https://trans-plan.com
Trans-Plan is a Canadian, Toronto-based traffic planning and transportation engineering consultant company. We create innovative, efficient and smart plans for movement in urban environments. We solve traffic planning problems faced by the private sector, public sector and non-governmental agencies while valuing all stakeholders: pedestrians, bicycle riders, transit users, and vehicle drivers. We transform the industry - today and tomorrow!

Transportation Professional Certification Board, Inc.
(Booth 102)
Ann O’Neill
aoneill@ite.org
www.tpcb.org
Recognizing the certification and professional development needs of the transportation profession, the Transportation Professional Certification Board Inc. (TPCB), an autonomous certification body affiliated with the Institute of Transportation Engineers, offers the following certification programs: Professional Traffic Operations Engineer® (PTOE), Professional Transportation Planner® (PTP) and Road Safety Professional® (RSP). All PTOE certified attendees should stop by the booth to help celebrate PTOE’s 20th Anniversary. Plus, make sure to listen for announcements for special question and answer periods with PTP and RSP certified individuals.

UrbanLogiq
(Booth 415)
Leah Hanvey
leah@urbanlogiq.com
www.urbanlogiq.com
UrbanLogiq helps governments build better communities with data. UrbanLogiq’s cloud-based platform consolidates data that is currently fragmented in silos to create a unified view of a community. UrbanLogiq then utilizes artificial intelligence to derive insights and streamline processes using this data, helping governments make faster, cheaper, and more accurate decisions.

USDOT
(Booth 315)
Mike Pina
Mike.Pina@dot.gov
www.transportation.gov
Imagine a transportation system in which cars can see things you can’t. Such cars could warn of a potential crash or icy roads ahead, advise of a traffic jam ahead, or help find a parking space. These developments are closer than you think through the U.S. Department of Transportation (USDOT) connected vehicle research begin showcased at the USDOT booth. Stop by our booth to see the future being shaped today.

Wavetronix
(Booth 309)
Daniel Duckwitz
daniel.duckwitz@wavetronix.com
www.wavetronix.com
Wavetronix creates innovative tools that make the world’s roads safer and more efficient. Our advanced radar offers unmatched performance and is changing the ITS industry by raising the standard for excellence in vehicle detection at intersections and roadways around the globe.
Floor Plan

Exhibit Hall,
Grand Ballroom,
Sixth Floor
Floor Plan

Fourth Floor

Sixth Floor
ITE Congratulates
Our New Honorary Member

and recognizes his notable
and outstanding achievements to
the transportation profession.

Kenneth H. Voigt, P.E. (F)

Please join us
as we recognize Ken
during the Opening Business
and Plenary Session on

Monday, July 22.
Driving **communities** toward a better future

We’re always seeking what’s next, pairing innovation with purpose. By applying the latest thinking and technology to solving real needs, we make our transportation networks smarter, helping transform how we understand—and create—greater mobility. We meet our clients at their unique starting points today, and we work with them to get them where they want to go for tomorrow.

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SIDRA INTERSECTION 8

SOLVE COMPLEX TRAFFIC DESIGN CHALLENGES

USE THE POWERFUL LANE-BASED SIDRA MODEL TO ANALYZE NETWORKS INCORPORATING ROUNDABOUTS, SIGNALIZED AND SIGN-CONTROLLED INTERSECTIONS, PEDESTRIAN CROSSINGS, CLOSELY-SPACED (PAIRED) INTERSECTIONS AND INTERCHANGES.

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