

2021 ITE Annual Meeting – Virtual Technical Program

(all times EDT)

Tuesday, July 20

11:00 a.m.—12:30 p.m. Opening Session

12:40 —1:25 p.m. Poster Presentations

Speakers:

- [“Identifying Safety-Critical Road Segments and Potential Countermeasures: A Geospatial Approach Using Horizontal Curve Data”](#), **Alyssa Ryan**, Ph.D. Candidate, University of Massachusetts Amherst, Amherst, Massachusetts
- [“Scraping News Data to Understand Contextual Factors in Pedestrian Crashes Using Natural Language Processing”](#), **Leon Villavicencio**, Analyst, AAA Foundation For Traffic Safety, Washington, DC, District of Columbia and **Brian Tefft**, Senior Researcher, AAA Foundation for Traffic Safety, Washington, District of Columbia
- [“Open Science/Open Data: The Time is Now”](#), **Ronald Boenau**, P.E., International Transport Research Advisor, Greensboro, North Carolina and **Elizabeth Gadsby**, Ph.D., Innovation Strategist, eGad Innovation, Gainesville, Florida
- [“Multi-Way Stop Applications: A Data-Driven Evaluation in Austin, TX”](#), **Eric Bollich**, P.E., PTOE, Managing Engineer, City of Austin Transportation Department, Austin, Texas
- [“MBTA Green Line Light Rail Transit Signal Priority - Implementation & Evaluation”](#), **Sudhir Murthy**, P.E., PTOE, President, TrafInfo Communications, Inc., Woburn, Massachusetts and **Deanna Peabody**, P.E., Transportation Engineer, TrafInfo Communications, Inc., Woburn, Massachusetts
- [“Using Big Data in Transportation Operations and Planning”](#), **David Metcalf**, P.E., PTOE, Senior Project Manager, Volkert, Inc., Centreville, Virginia
- [“A Traffic Speed Impact Study in Midtown Manhattan After the Implementation of an Adaptive Traffic Control System”](#), **Diego Correa**, Ph.D, Assistant Professor at the Catholic University of Cuenca, Cuenca, Ecuador

1:30 —3:00 p.m. Technical Sessions

Walking and Biking: User Insights and the Toolkits You Need to Know About

This session will describe innovative approaches to understanding and providing infrastructure for people walking and biking. The topics will also explore equity in communities, leveraging the impacts of COVID-19 and the rise of e-bikes, as well as reviewing design vehicle principles and how they relate to new mobility.

Moderator: **Jeff Riegner**, P.E., AICP, PTOE, Vice President, Whitman, Requardt & Associates

Speakers:

- [Laura Crawford, Bicycle Tourism Advisor and Co-Founder, The Path Less Pedaled, Missoula, MT](#)
- [John MacArthur, Sustainable Transportation Program Manager, Transportation Research and Education Center, Portland State University, Portland, OR](#)
- [Amar Mohite, Director of Planning and Infrastructure, Office of Harris County Commissioner Rodney Ellis, Houston, TX](#)

ITE Town Hall Meeting

This session will provide ITE members the opportunity to have a dialogue with the ITE Executive Committee – President **Alyssa Rodriguez**, Vice President **Beverly Kuhn**, Past President **Randy McCourt**, and Executive Director and CEO **Jeff Paniati**. A key discussion issue during this session will be equity in transportation – why it’s important and what actions ITE should be taking to address it.

Rural Transportation System Management and Operations Planning in Western States

This panel session explores the unique needs, opportunities and challenges to providing Transportation System Management and Operations (TSMO) planning in rural areas. The panel brings experts representing small and large agencies, all currently completing distinct rural TSMO planning efforts.

Moderator: **Susie Serres**, Operations Group Manager, DKS

Speakers:

- [Justin Belk, P.E., Integrated Corridor Operations Engineer and Pamela Vasudeva, Acting Statewide TSMO Development Engineer, Washington State Department of Transportation, Olympia, Washington](#)
- [David Hirsch, P.E., PTOE, Region 4 Traffic Operations Engineer, Oregon Department of Transportation, Bend, Oregon](#)
- **Stacy Shetler**, P.E., County Engineer, Washington County (OR), Hillsboro, Oregon
- **Jeff Miles**, P.E., PTOE, Transportation Engineer IV, Texas Department of Transportation, Bryan, Texas

- [Dennis Mitchell, P.E., Regional Director of Transportation Technology, DKS Associates, Portland, Oregon](#)

3:10 —3:55 p.m. Poster Presentations

Speakers:

- [“Strategic Truck Parking Investment Decision Making: A Hybrid Agent-Based Simulation and Optimization Approach for Statewide Truck Parking Capacity Expansions”](#), **Sarah, Hernandez**, Ph.D, P.E., Assistant Professor, University of Arkansas, Fayetteville, Arkansas
- [“Multimodal Real-Time Transportation Common Operational Picture”](#), **Rick Ayers**, Public Sector Advocate, Center For Advanced Transportation Technology Laboratory, College Park, Maryland and **Michael Pack**, Director, CATT LAB, College Park, Maryland
- [“Cloud Based Transportation and Infrastructure Planning Tools”](#), **Chuck Green**, P.E., Senior Project Manager, Otak, Inc., Ridgefield, Washington
- [“Lessons Learned from Bringing Together Countywide Modeling with Transportation Impact Analysis Tools at Santa Clara Valley Transportation Authority \(SCVTA\)”](#), **Bill Cisco**, P.E., Manager - Urban Planning Traffic Engineering, PTV Group, Sherwood, Oregon and **Eugene Maeda**, Senior Transportation Planner, Santa Clara Valley Transportation Authority, San Jose, California
- [“A Data-Driven Approach to Traffic Signal Management”](#), **Julie Kentosh**, P.E., PTOE, City of Portland, Portland, Oregon
- [“Reliably Bad, or Unreliably Good? Future Travel Time Reliability for Managed Lanes in Sacramento”](#), **Aaron Berger**, P.E., Senior Transportation Engineer, DKS Associates, Scappoose, Oregon
- [“Highlights from the Automated Vehicle Symposium”](#), **Katherine Kortum**, Ph.D, P.E., Senior Program Officer, Transportation Research Board, Washington, District of Columbia

4:00 —5:30 p.m. Technical Sessions

Perspectives on Safety and Operational Results for Roundabouts

This session will present several aspects of the safety, design and simulation of roundabouts in the contexts of multi-lane roundabouts, smaller roundabout dimensions, and a roundabout corridor.

Moderator: **Gordon Meth**, P.E., PTOE, PTP, RSP2I, Transportation Engineering Expert Witness, Robson Forensic

Speakers:

- [*“Cheaper by the Dozen: Twelve Roundabouts Plus Five Miles of New Freeway Improves a Critical Evacuation Route”*](#), **Alex Wiseman**, P.E., Traffic Engineer, STV, Inc., Charlotte, North Carolina
- [*“Too Many Crashes at Your Multi-lane Roundabout? Learn Design Principles and Techniques to Optimize Safety”*](#), **Mark Johnson**, P.E., Principal Engineer, MTJ Roundabout Engineering, Madison, Wisconsin
- [*“Delivering Big Results with Smaller Roundabouts”*](#), **Mark McCulloch**, P.E., Senior Project Manager, Washtenaw County Road Commission, Ann Arbor, Michigan
- [*“Going in Circles: The Challenges of Calibrating a Vissim Multi-lane Roundabout Corridor”*](#), **Amanda Deering**, P.E., Transportation Engineer, DKS Associates, Portland, Oregon

How to Get Thru – Transportation Plans and Performance for Construction and Events

Various temporary activities impact the safety and operation of roadways including special events, construction and adverse weather. This session presents information on the performance of work zones, stadium transportation plans and analytical methods to assess evacuations.

Moderator: **Melisa Finley**, P.E., Research Engineer, Texas A&M Transportation Institute

Speakers:

- [*“The SoFi Stadium Transportation Plan and Its Unique Challenges”*](#), **Tyler Krage**, P.E., PTOE, Professional Traffic Engineer, Alliant Engineering, Minneapolis, Minnesota and **Vanessa Munoz**, P.E., PTOE, Director of Engineering, Willdan Engineering, Industry, California
- [*“Real-Time Traffic & Performance Management for Large Construction Projects”*](#), **Mark Masongsong**, CEO & Co-Founder, UrbanLogiq, Vancouver, British Columbia
- [*“Work Zone Streets & Sidewalks Closure Policies: Equitable and Safe Use of the Public Right-of-Way”*](#), **Shane Binder**, P.E., PTOE, RSP1, Transport Engineer, Waimakariri District Council, New Zealand and **Michael Koslow**, P.E., Senior Engineer, City & County of Denver, Colorado
- [*“A Dynamic Evacuation Analysis Tool to Handle Extreme Conditions in the City Planning Process”*](#), **Jinghua Xu**, Ph.D, P.E., Senior Associate, Fehr & Peers, Irvine, California

Vision Zero Design Sandbox Competition Judging

Moderator: **Amir Rizavi**, P.E., ENV SP, Director of Transportation Systems, VHB, New York, New York

The goal of the Vision Zero Design Sandbox Competition, held earlier this year and sponsored by the ITE Consultants Council, was to encourage teams to think beyond the traditional ways of assessing crash data based on historic information and move towards a more proactive approach by leveraging new near-miss data analytics and technology. Teams were challenged to demonstrate how automated conflict data being collected through innovative technologies in Bellevue, Washington can be used to gain new insights into safety problems and the selection of low-cost countermeasures at intersections. This session will include finalist presentations from both student and consultant-led teams, which will be judged and winners announced at the Power Plenary Session on July 22.

Wednesday, July 21

11:00 a.m.—12:30 p.m. Technical Sessions

National Operations Center of Excellence (NOCoE) Transportation Technology Tournament: Students Solving Real-World ITS and TSMO Problems

The Transportation Technology Tournament (TTT), now in its fourth year, is a competition for students to work directly with public agencies to solve real-world transportation problems utilizing ITS and TSMO solutions. The impacts of the TTT have ranged from how students approach their education before entering the workforce to how DOTs approach solving transportation problems to how organizations can work together to achieve common workforce development goals.

Presentations from previous student participants, State and local DOT representative perspectives and examples of implemented solutions will be given to demonstrate these impacts. The session will also include a brief introduction from the USDOT ITS JPO Professional Capacity Building team and the National Operations Center of Excellence on the value of the partnership between the two groups that has allowed the TTT to grow the past four years.

Moderator: **Adam Hopps**, Interim Managing Director, National Operations Center of Excellence

Speakers: [\(PRESENTATION LINK\)](#)

- **Andrew Berthaume**, Ph.D, Community Planner, US Department of Transportation Volpe National Transportation Systems Center, Cambridge, Massachusetts
- **Stephanie Dock**, AICP, Research Program Administrator, DC Department of Transportation, Washington, DC
- **Britton Hammit**, Ph.D, P.E., Traffic Engineer, Kimley-Horn, Washington, DC
- **Joe Vincent**, Ph.D Candidate, Stanford University, Palo Alto, California
- **Mohammed Hadi**, Ph.D, P.E., Florida International University, Miami, Florida
- **Neda Massoud**, Ph.D, Assistant Professor, University of Michigan, Ann Arbor, Michigan
- **David Jackson**, Transportation Industry Analyst, US Department of Transportation Volpe National Transportation Systems Center, Cambridge, Massachusetts
- **Charity Coleman**, Transportation Analyst, Changeis, Inc, Cambridge, Massachusetts
- **Amir Tafreshian**, Ph.D, Graduate Research Assistant, University of Michigan, Ann Arbor, Michigan

Systemic Safety Improvements in Local Jurisdictions

This session explores several local jurisdictions' systematic approaches to support safe and livable streets, including street design issues, implementation of a systematic safety plan and the use of a data-driven safety approach to prioritize safety projects, and how the Highway

Safety Manual has been used to effectively identify hot spots and implement a systematic plan for improvements.

Moderator: **Lindsey Van Parys**, P.E., QSD/P Project Manager, GHD

Speakers:

- [*“Performance-Based Analysis for Safety Plan and HSIP Project Prioritization”*](#), **Dhruva Lahon**, P.E., PTOE, Senior Project Manager, Kimley-Horn and Associates, Dallas, Texas
- [*“Systemic Safety Improvement Program in Clark County, WA”*](#), **Courtney Furman**, P.E., Traffic Engineer, Clark County, Washington and **Ejaz Khan**, Traffic Engineer, Clark County, Washington
- [*“Vision Zero by 2032: Edmonton’s Safe Mobility Strategy”*](#), **Tyler Golly**, P.Eng, Western Canada Market Lead, Toole Design Group, Edmonton, Alberta, and **Jessica Lamarre**, Director, Safe Mobility, City of Edmonton, Alberta
- [*“Regional Leadership in Safety: Applying the Safe System Approach on a Countywide Scale”*](#), **Marissa Milam**, Transportation Engineer/Planner, Fehr & Peers, Seattle, Washington
- [*“Effect of Street Trees on Urban Street Safety.”*](#), **Nicholas Mesler**, EIT, Transportation Analyst, Lancaster Mobley, Portland, Oregon

Signs and Markings - Innovations That Work

This session examines advancements in the design and application of innovative signs and markings. Real world examples and photos will be presented to document successful implementation of treatments presented. The session also helps professionals prepare for the future by identify signing and marking considerations that accommodate the needs of connected and automated vehicles.

Moderator: **Vishal Kakkad**, P.E., RSP1, PTOE, Traffic Engineering Division Manager, Manatee County (Florida) Public Works

Speakers:

- [*“Practical Transportation Solutions to Save Lives”*](#), **Brian Chandler**, P.E., PTOE, RSP2IB, PMP, National Director for Transportation Safety, DKS Associates, Seattle, Washington
- [*“Effectiveness of Pedestrian/School Crossing Signs with Embedded LEDs”*](#), **Kay Fitzpatrick**, Ph.D, P.E., PMP, Senior Research Engineer / Program Manager / Regents Fellow, Texas A&M Transportation Institute, College Station, Texas
- [*“Variable Speed Limit System \(VSLS\)”*](#), **Cory Edgar**, P.Eng, PTOE, P.E., Managing Director, PBX Engineering Ltd., Victoria, British Columbia

- [*“Safety Effects of a Variable Speed Limit System During Fog Events”*](#), **Michael Fontaine**, P.E., Ph.D, Associate Director, Virginia Department. Of Transportation, Charlottesville, Virginia

12:40 — 1:25 p.m. Poster Presentations

Speakers:

- [*“Lessons Learned from UDOT’s Automated Vehicle Pilot Project”*](#), **Lisa Miller**, Traveler Info Manager, Utah Department of Transportation, Salt Lake City, Utah
- [*“Non-drivers and Drivers: Differences in Perception and Acceptance Towards Automated Vehicles”*](#), **Woon Kim**, Ph.D, Senior Analyst, AAA Foundation for Traffic Safety, Washington, District of Columbia
- [*“Infrastructure Enablers for Automated Vehicles and Shared Mobility”*](#), **Greg Rodriguez**, Mobility Policy Principal, Stantec, Arlington, Virginia and **Pamela Bailey-Campbell**, Principal, Stantec, Denver, Colorado
- [*“Traffic Signal Optimization with Cooperative Driving Automation \(CDA\)”*](#), **Sujith Racha**, P.E., PTOE, ITS Manager, Leidos, Reston, Virginia and **Amir Ghiasi**, Ph.D, P.E., Senior Transportation Research Analyst, Leidos, Reston, Virginia
- [*“FHWA’s Connected and Automated Vehicle Analysis, Modeling, and Simulation Research Program”*](#), **Rachel James**, Ph.D, Research Civil Engineer, Federal Highway Administration, McLean, Virginia
- [*“Simplified Method for Estimating Potential Energy Savings from Connected Eco-Driving Application along Signalized Corridors”*](#), **Zhensong Wei**, Ph.D Candidate, UC Riverside, Riverside, California
- [*“Multimodal Intelligent Traffic Signal System - Deployment for Portland Streetcars”*](#), **Niraj Altekar**, Research Assistant, The University of Arizona, Tucson, Arizona and **Shruti Nuchhi**, Research Assistant, Portland State University, Portland, Oregon
- [*“The Effect of Modality Style and Attitudes on the Adoption of Autonomous Vehicles”*](#), **Alireza Rahimi**, Graduate Research Assistant, Florida International University, Miami, Florida and **Xia Jin**, Ph.D, AICP, Associate Professor, Florida International University, Miami, Florida

1:30 — 3:00 p.m. Technical Sessions

Emerging Practices and Technology for Railroad Grade Crossings

The session will present state-of-the-practice information on developing robust grade crossing treatments to improve safety and operations at rail crossings. Presentations include an overview of the Section 130 Program for funding grade crossing improvements, a synopsis of research on emerging technologies for grade crossings, a description of an innovative multilane

roundabout treatment and a summary of the new ITE Recommended Practice *Preemption of Traffic Signals Near Railroad Crossings*.

Moderator: **Brent Ogden**, P.E., PTOE, Regional Vice President, Kimley-Horn

Speakers:

- [*“Missouri’s Innovative Roundabout with Railroad Preemption”*, **David Mennenga**, P.E., PTOE, Associate / Project Manager, George Butler Associates, Inc., Lenexa, Kansas](#)
- [**Esther Strawder**, Transportation Specialist, Federal Highway Administration, Washington, DC](#)
- [**Francesco Bedini Jacobini**, Program Manager, Highway-Rail Grade Crossing and Trespass Prevention Research Program, Federal Railroad Administration, Washington, DC and **Marco daSilva**, General Engineer / Projects Manager, Volpe National Transportation Systems Center, Cambridge, MA](#)
- [*“ITE Recommended Practice on Preemption of Traffic Signals Near Railroad Grade Crossings”*, **Tom Lancaster**, Founding Principal, Lancaster Mobley, Portland, OR](#)

Building Effective Pedestrian and Bicycle Networks

This session will highlight various ways and projects to building safe and effective pedestrian and bicycle networks that work. From pedestrian and bicycle safety plans to data driven design, this session will showcase projects from a pedestrian path to bicycle intersection infrastructure. It will explore both long range planning and rapid implementation techniques to connect communities through infrastructure improvements for pedestrians and bicyclists in several major North American cities.

Moderator: **Karen Aspelin**, P.E., PTOE, Owner, MaxGreen Transportation Engineering

Speakers:

- [*“Want to Implement Your Bike Plan? Community Networks Program: A Holistic Approach to Connecting Denver’s Communities Through Rapid Implementation”*, **Benjamin Waldman**, P.E., PTOE, Senior Transportation Engineer, Apex Design Group, Denver, Colorado and **Josh Melhem**, LEED AP, Senior Transportation Planner, Apex Design Group, Denver, Colorado](#)
- [*“Vehicle Right Turn and Cyclist Conflicts - Impacts of Intersection Design, Signalization and Bike Facility Type”*, **Amanda Pushka**, P.Eng, M.Sc., RSP1, Road Safety Engineer, MicroTraffic Inc., Winnipeg, Manitoba and **Liliana Quintero**, P.Eng, M.Sc., Senior Transportation Engineer, City of Vancouver, British Columbia](#)
- [*“Let’s Take a Ride on the Flanders Bikeway”*, **Andrew Sullivan**, P.E., PTOE, Traffic Engineer, City of Portland Bureau of Transportation, Portland, Oregon](#)

- [*“How To Collect and Distribute High-fidelity Ped Pathway Data in Decentralized, Standardized, Crowd-Sourced Format”*](#), **Matthew Weidner**, Transit Planner IV, King County, Seattle, Washington and **Eric Peterson**, Senior GIS Analyst, MV Transportation, Seattle, Washington
- [*“Oregon DOT’s Systemic Pedestrian and Bicycle Safety Plan”*](#), **Nick Foster**, AICP, RSP1, Associate Planner, Kittelson & Associates, Inc., Boise, Idaho and **Christina McDaniel-Wilson**, P.E., RSP1, State Traffic Safety Engineer, Oregon Department of Transportation, Salem, Oregon

Rural ITS Town Hall Meeting

Moderators: **Steve Latoski**, P.E., PTOE, Public Works Director, Mohave County, Arizona and **John Hansen**, Subject Matter Expert – Transportation, Olsson

What are the current “hot topics” and emerging issues in rural intelligent transportation systems (ITS)? Attend this session to hear about and discuss trends and recent advancements of ITS in rural and small communities, and contribute to the conversation by helping to identify additional issues.

3:10 –3:55 p.m. Poster Presentations

Speakers:

- [*“Intersect: VHB’s Innovative Platform for Developing Traffic Volumes”*](#), **Amir Rizavi**, P.E., ENV SP, Director of Transportation Systems, VHB, New York, New York and **Steven Anderson**, Vice President of Technology Services, VHB, Wethersfield, Connecticut
- [*“Impacts of COVID-19 on Contra Costa Transportation System”*](#), **Joy Bhattacharya**, P.E., PTOE, Vice President, Advanced Mobility Group (AMG), Walnut Creek, California and **John Hoang**, Director, Planning, Contra Costa Transportation Authority, Walnut Creek, California
- [*“From Slow Streets to Highways, Measuring Ever-Changing Traffic in the San Francisco Bay Area”*](#), **Matthew Pettit**, Solution Engineer, StreetLight Data, Portland, Oregon and **Toshi Ohta**, Principal Engineer – New Mobility, Metropolitan Transportation Commission, San Francisco, California
- [*“A New Data Collection Paradigm for a Post-Pandemic Transportation Future”*](#), **Ian Barnes**, P.E., Senior Associate, Fehr & Peers, Walnut Creek, California
- [*“How the COVID Experience forever changed how we travel”*](#), **Ted Trepanier**, P.E., Senior Director - Public Sector Services, INRIX, Kirkland, Washington
- [*“Turning a Pandemic Into a Telework Transformation”*](#), **Stan Suchan**, Public Transportation, Washington State Department of Transportation, Olympia, Washington

- ["Freight Rail Industrial Opportunities Corridor Program", Tom Visee, AICP, MPM, Freight Planner, HDR, New York, New York and Anne Strauss-Wieder, Director, Freight Planning, North Jersey Transportation Planning Authority, Newark, New Jersey](#)

4:00 —5:30 p.m. Workshops

- **Our Changing Mobility Landscape: What It Means for Our Profession**
- **Walk the Mile: An Interactive Workshop in Transportation Equity**
- **Next Generation Traffic Incident Management – Safety and Mobility Benefits for All**

Thursday, July 22

11:00 a.m.—12:30 p.m. Technical Sessions

COVID-19 Transportation Impacts and Innovations - Part 1

The COVID-19 pandemic has had a profound effect on all aspects of transportation around the world. This session will cover the short-term effects, as well as the long-term effects of pandemic on people, roads, and communities.

Moderator: **Rosana Correa**, P.E., PTOE, FITE, Jacobs

Speakers:

- [*“Accounting for the Future of Working From Home in Post-COVID Traffic Forecasts”*](#), **Jeff Smithline**, P.E., PTOE, Senior Vice President & National Director, Traffic Engineering, Sam Schwartz Consulting, New York, New York
- [*“COVID-19 Impacts on Local Transportation Agency Operations: A National Review with Illustrative Examples from Louisiana Agencies”*](#), **Christopher Melson**, Program Manager, Louisiana Transportation Research Center, Baton Rouge, Louisiana
- [*“Passengers to Pantry: How a Pandemic Changed the Mission for Smart Columbus”*](#), **Jeffrey Kupko**, P.E., PTOE, Assistant Program Manager, Michael Baker International, Inc., Columbus, Ohio
- [*“Resilient Streets: A Near-Term Pandemic Travel Solution + Long-Term Walk/Bike Network”*](#), **Breanna Mobley**, P.E., Senior Transportation Engineer, Sam Schwartz Consulting, Los Angeles, California and **Debs Schrimmer**, Senior Manager, Future of Cities, Lyft, San Francisco, California
- [*“Al-Fresco America: The Future of Placemaking?”*](#), **James Huang**, **Allison Fischer**, and **Christine Stavish**, University of Southern California ITE Chapter, Los Angeles, California

Baking TSMO into All We Do in Transportation

The overall focus of the session is on ways transportation agencies are "baking transportation system management and operations (TSMO) into all they do." TSMO helps agencies get the most of their transportation dollar - both future ones as well as those dollars spent building facilities in the past. Capacity is an asset. The more an agency can get out of the capacity they have, the more options they have in how to spend future resources. This is smart for transportation. TSMO is being integrated more and more into how agencies deliver transportation. This session provides examples in some growing critical areas.

Moderator: **Tracy Scriba**, Team Leader, Federal Highway Administration

Speakers:

- ["Mainstreaming TSMO: What Seems to Matter", Tracy Scriba, Team Lead, Planning and Organizing for Operations, Federal Highway Administration, Washington, DC](#)
- ["How PennDOT's Operations Analytics and Guidebooks are Powering Decisions Throughout the Project Lifecycle", Doug Tomlinson, P.E., Chief, Highway Safety and Traffic Operations Division, Pennsylvania Department of Transportation, Harrisburg, Pennsylvania](#)
- ["Integrating ITS and other TSMO Assets into Seattle DOT's Asset Management Program", Chad Allen, Transportation Asset Management, Seattle Department of Transportation, Seattle, Washington](#)
- ["Freight and TSMO: Working Together for Better Goods Movement", Denise Markow, Director, TSMO Program, Eastern Transportation Coalition, Strafford, New Hampshire](#)
- ["Building a TSMO Program", Brent Cain, Director, TSMO Division, Arizona Department of Transportation, Phoenix, Arizona](#)

Tools for Advancing Vision Zero and the Safe System Approach

Communities continue to advance safety through the use of innovative new tools and strategies that promote the concepts of vision zero. This session demonstrates the successful application of several new safety analysis tools including crash prediction models and the use of leading pedestrian intervals.

Moderator: **Jeff Riegner**, P.E., AICP, PTOE, Vice President, Whitman, Requardt & Associates

Speakers:

- ["Striving for Zero Fatalities Using a Suite of Safety Analysis Tools in Utah", Grant Schultz, Ph.D, P.E., PTOE, Professor, Brigham Young University, Provo, Utah](#)
- ["Proven Safety Countermeasures - The Federal Highway Administration's Next Round", Michael Griffith, RSP1, RSP2, Director, Office of Safety Technologies, Federal Highway Administration, Washington, District of Columbia](#)
- ["Improving Pedestrian and Bicycle Safety at Intersections", Krista Nordback, Ph.D, P.E., Senior Research Associate, UNC Highway Safety Research Center, Boulder, Colorado and Bill Schultheiss, P.E., Vice President, Toole Design, Silver Spring, Maryland](#)
- ["Safety Assessment of Leading Pedestrian Intervals on Vehicle-Pedestrian Interactions Using Video Analytics", Darcy Akers, P.E., Senior Transportation Engineer, City of Bellevue - Transportation Department, Bellevue, Washington and Mark Bandy, Regional Solutions Leader – Transportation Planning, Jacobs, Seattle, Washington](#)

12:40 — 1:25 p.m. Poster Presentations

Speakers:

- [*“Level of Service Estimation \(LOS\) from GOR”*](#), **Matthew Muresan**, Data Scientist, [Miovision, Waterloo, Ontario](#)
- [*“Adaptive Ramp Metering – A Probabilistic Approach: Concept and Operations Under Development for City of Spokane Area, Washington DOT”*](#), **Himanshu Wad**, P.E., Traffic Engineer and Technical Sales Lead, [Q-Free, Atlanta, Georgia](#)
- [*“Defining Context Classification - How Urban Is Your Community?”*](#), **Daniel Hardy**, P.E., PTP, Principal, [Renaissance Planning Group, Arlington, Virginia](#) and **Lois Bush**, Senior Policy Planning Analyst, [Florida Department of Transportation, Fort Lauderdale, Florida](#)
- [*“Transforming Hennepin Avenue: Policy is Easy; Implementation is Hard”*](#), **Allan Klugman**, P.E., PTOE, Principal Professional Engineer, [City of Minneapolis, Minneapolis, Minnesota](#) and **Becca Hughes**, AICP, Senior Transportation Planner, [City of Minneapolis, Minneapolis, Minnesota](#)
- [*“Accommodations to Improve Multimodal Travel within the “Lemoyne Bottleneck””*](#), **Tim Smith**, Senior Planning Consultant, [Gannett Fleming Inc, Camp Hill, Pennsylvania](#) and **Steve Deck**, AICP, Executive Director, [Tri-County Regional Planning Commission, Harrisburg, Pennsylvania](#)
- [*“Studying the Effectiveness of Parking Stall Demand Reduction \(PSDR\) for Suburban Transit Oriented Development \(TOD\)”*](#), **Michael Shenoda**, P.E., Ph.D, LEED AP BD+C, PTOE, Assistant Professor, [Farmingdale State College, Farmingdale, New York](#)
- [*“Growing TDM in Coquitlam”*](#), **Kathy Ho**, P.Eng, PTOE, Transportation Policy Engineer, [City of Coquitlam, British Columbia](#)
- [*“Evaluating Traffic Signal Detection Systems for Safety and Efficiency”*](#), **Jay Grossman**, Ph.D, P.E., Assistant Professor, [Valparaiso University, Valparaiso, Indiana](#)

1:30 —3:00 p.m. Power Plenary Session

3:10 —3:55 p.m. Poster Presentations

Speakers:

- [*“Attracting and Retaining Women in the Transportation Industry”*](#), **Jodi Godfrey**, Senior Research Associate, [University Of South Florida/CUTR, Tampa, Florida](#)
- [*“PennDOT LTAP: Engaging and Training Local Road Crews”*](#), **Patrick Wright**, Traffic Engineer, [PA LTAP Via Pennoni, Camp Hill, Pennsylvania](#)
- [*“Smart Cities Initiative: A Threat to Deepen, or an Opportunity to Address Social Exclusion”*](#), **Moses Tefe**, Ph.D, P.E., Associate Professor, [Norwich University, Northfield, Vermont](#)
- [*“Combating Sexual Misconduct on Public Transit in the U.S.”*](#), **Koral Buch**, PhD Student, [University of California, Davis, Davis, California](#)

- [“Systematic Evaluation of Bicycle Rolling Stop Laws”](#), **David Hurwitz**, Ph.D, FITE, Professor, Oregon State University, Corvallis, Oregon and **Jasmin Woodside**, P.E., Graduate Research Assistant, Oregon State University, Corvallis, Oregon
- [“A Rapid-Response, Data-Driven Approach to Temporary Bike and Pedestrian Infrastructure – Quantifying the Success of Montreal’s COVID-19 ‘Health Corridors’”](#), **Olivia White**, MUP, Transportation Planner, Eco-Counter, Montreal, Quebec
- [“Nurturing the First Steps - Visual storytelling for walkable environments”](#), **Ryan Martinson**, M.Eng, P.Eng, Toole Design Group, Calgary, Alberta
- [“A Railroad Runs Through It - Roundabout at Rail Crossing Case Study”](#), **Mike Maurovich**, P.E., Project Development Director, American Structurepoint, Inc., Indianapolis, Indiana

4:00 —5:30 p.m. Technical Sessions

Complete Corridors

This session will provide details on creating complete corridors through right-sizing and lane allocation projects. Projects featured in this session will explore lessons learned in achieving complete corridors. The session will feature large scale projects to transforming main streets, as well as both permanent and pilot projects that are creating complete streets at a corridor scale.

Moderator: **Claude Strayer**, P.E., RSP1, Fehr & Peers

Speakers:

- [“Complete Corridors - I-270 North Design Build Project”](#), **Shawn Leight**, P.E., PTOE, PTP, Vice President / COO, CBB Transportation Engineers + Planners, St. Louis, Missouri and **Jennifer Becker**, P.E., I-270 North Design Build Design Coordinator, Missouri Department of Transportation, St. Louis, Missouri and **Jacob Kaltenbronn**, Transportation Operations Analyst, CBB Transportation Engineers + Planners, St. Louis, Missouri
- [“Right-Sizing” S. Florida Avenue \(SR 37\) in Lakeland, FL: This is a Test – Only a Test!”](#), **Angelo Rao**, P.E., Complete Streets Practice Leader, S&ME, Tampa, Florida
- [“Lessons Learned from Planning and Implementation of Lane Repurposing Projects”](#), **Ravindra Wijesundera**, P.E., RSP1, Transportation Engineer, Kimley-Horn and Associates, Inc., Fort Lauderdale, Florida
- [“Transforming Main Street – A Case Study in West Linn, Oregon”](#), **Lance Calvert**, P.E., Public Works Director / City Engineer, City of West Linn, Oregon

Critical Data Integration between PSAPs and TMCs

Traffic or transportation management centers (TMC) are the heart of operations for most transportation agencies. Public safety answering points (PSAP) are the communication centers for public safety response agencies, receiving 911 calls, dispatching responders and resources, and monitoring incident communications. The TMC and PSAP functions together provide communications, data, resources, and situational awareness functions for traffic incidents, but there is usually minimal coordination and integration of these centers in ways that can enhance and support effective incident response. This session will discuss opportunities for integrating TMCs and PSAPs, examples of integration initiatives, and the benefits and challenges of integration.

Moderator: **Eddie Reyes**, Director, Prince William County (Virginia) 9-1-1

Speakers:

- [Pat Noyes, Principal, Pat Noyes & Associates, Boulder, Colorado](#)
- [John McClellan, Freeway Operations Supervisor, Minnesota Department of Transportation, St. Paul, Minnesota](#)
- [Athena Hutchins, P.E., F.ASCE, Executive Director, Niagara International Transportation Technology Coalition, Buffalo, New York](#)

COVID-19 Transportation Impacts and Innovations - Part 2

In this panel session, you will hear about impacts of COVID -19 on different levels of government agencies including state, county, city, and neighborhood. The panelists will discuss mobility recovery, transport of goods, change in travel patterns, safety, and community building.

Moderator: **Kirsten Tynch**, P.E., PTOE, ENV SP, Managing Director – Virginia Beach, VHB

Speakers:

- [*“The Impacts of COVID-19 in the Transportation System of Puerto Rico in the Middle of Recovery of Hurricanes and Earthquakes Natural Disasters”*, Benjamin Colucci-Rios, Ph.D, P.E., PTOE, FITE, F.ASCE, Director, Puerto Rico Transportation Technology Transfer Center, University of Puerto Rico at Mayagüez, Mayaguez, Puerto Rico](#)
- [*“Public Transit and COVID-19: Global Research and Best Practices”*, Daniel Schack, AICP, Senior Associate, Sam Schwartz Consulting, New York, New York](#)
- [*“From COVID-19 Emergency Streets to Quick Builds: San Francisco's Tenderloin Program”*, Kimberly Leung, P.E., T.E., Transportation Engineer – Livable Streets Team Leader, San Francisco Municipal Transportation Agency, San Francisco, California](#)
- [*“Roadway Operating Conditions in the Time of COVID: Emptier, not Safer”*, Terence Zhao, Transportation Planner, Fehr & Peers, Oakland, California and Becca Sial, AICP, Solution Engineer, Streetlight Data, Richmond, VA](#)

- [*“Traffic Counts in Times of COVID: A Tale of Two Cities”*, **Kristie Gladhill**, P.E., Project Delivery QA/QC Program Manager, Oregon Department of Transportation, Portland, Oregon and **Katie Brown**, Transportation Analyst/Modeler, Oregon Department of Transportation, Salem, Oregon](#)

Tuesday, July 27

11:00 a.m.—12:30 p.m. Technical Sessions

Connected Vehicles: The Changing Landscape, Implementation, Lessons Learned, The Future

ITE's Connected and Automated Vehicles Standing Committee (CAV SC) is committed to providing guidance and direction to its membership for advancing the safety and mobility through the application of emerging technologies. This session comprises a panel of experts drawn from the industry, state and local governments, and the Federal Highway Administration. The panel will present on topics of immediate interest from a research and development, implementation, lessons-learned, and state-of-practice with respect to drafting, designing, and deploying transportation technologies in a quickly-changing landscape.

Moderator: **Raj Ponnaluri**, Ph.D, P.E., PTOE, PMP, State Connected Vehicles, Arterial Management, Managed Lanes Engineer, Florida Department of Transportation

Speakers:

- **John Hibbard**, P.E., Director, Division of Permits and Operations, Georgia Department of Transportation, Atlanta, Georgia
- [Faisal Saleem, ITS Branch Manager, Maricopa County Department of Transportation, Phoenix, Arizona](#)
- [Taylor Lochrane, CARMA Program Manager, Federal Highway Administration, McLean, Virginia](#)
- [Steve Kuciemba, National ITS and CAV Practice Lead, WSP, Baltimore, Maryland](#)

What's New in Trip Generation?

This session will discuss new research and tools for improved trip generation analysis. It will present the key elements of the soon to be released ITE *Trip Generation Manual, 11th Edition* including an overview of the expanded database and methodologies for addressing the impacts of COVID-19 trip changes. It will also explore new methods for evaluating transportation impacts through the application of vehicle miles traveled methodologies and the use of trip analytics tools for predicting travel patterns.

Moderator: **Scott Walker**, P.E., Senior Project Engineer, Toyota Motor North America

Speakers:

- ["Trip Analytics", Gregory Jordan, Trip Analytics Project Manager, Center For Advanced Transportation Technology Laboratory, College Park, Maryland](#)

- [*“An Interactive GIS Tool for Evaluating the VMT Impact of Proposed Development”*](#), **Dock Rosenthal**, P.E., DKS Associates, Portland, Oregon and **Maggie Lin**, Ph.D, P.E., PTOE, Transportation Engineer, DKS Associates, Portland, Oregon
- [*“Advanced Topics in Impact Assessment: Vehicle Miles Traveled, Limited Parking Supply, Mixed-Use Projects, and Post-COVID Pandemic Travel Behavior Considerations”*](#), **John Gard**, P.E., RSP, Principal, Fehr & Peers, Roseville, CA, California
- [*“Introducing the ITE Trip Generation Manual – 11th Edition”*](#), **Kevin Hooper**, P.E., Principal, Kevin Hooper Associates, Falmouth, Maine

Considering Traffic Signals for All Users

Are traffic signals primarily just for vehicles? No, and there are methods for using pedestrian and bicycle data from a variety of sources to improve the safety, accessibility, overall experience of non-motorized users of signalized intersections.

Moderator: **Andy Swisher**, P.E., PTOE, Project Manager, HR Green

Speakers:

- [*“Examining the Use of Microsimulation Modeling to Assess Bicycle-Vehicle Conflicts at Intersections: A Case Study Incorporating Field-Observed Conflict Data”*](#), **Edward Smaglik**, Ph.D, P.E., Professor, Northern Arizona University, Flagstaff, Arizona and **Brendan Russo**, Assistant Professor, Northern Arizona University, Flagstaff, Arizona
- [*“Safety Improvements for Blind Pedestrians at Signalized Intersections”*](#), **Gerard Soffian**, P.E., RSP1, Adjunct Professor, NYU Tandon School of Engineering, Brooklyn, New York
- [*“Challenges in the Deployment of a Connected Vehicle Transit System to Improve Pedestrian Safety at Signalized Intersections”*](#), **Srinivasa Sunkari**, P.E., PMP, Research Engineer, Texas A&M Transportation Institute, Bryan, Texas
- [*“Pedestrian Traffic Signal Data: Models for Estimating Pedestrian Volumes”*](#), **Patrick Singleton**, Ph.D, Assistant Professor, Utah State University, Logan, Utah and **Ferdousy Runa**, Graduate Teaching Assistant, Penn State University, State College, Pennsylvania

12:40 — 1:25 p.m. Poster Presentations

Speakers:

- [*“Safe Routes to School in Austin Texas - How to Plan and Build with 40 Million Dollars”*](#), **Carly Haithcock**, P.E., Project Engineer, Toole Design, Austin, Texas and **Wendy Phelps**, AICP, Project Planner II, Toole Design, Silver Spring, Maryland

- [*"Nimble Multimodal Project Implementation through IDIQ: Austin's Experience"*](#), **Neil Quarles**, EIT, Multimodal Street Designer, Austin Transportation Department, Austin, Texas
- [*"The Importance of Static Obstructions in Sidewalk Data"*](#), **Nicholas Coppola**, PhD Candidate, University of Colorado, Lakewood, Colorado
- [*"From Car-centric to Complete Street: The Evolution of Bellevue's 108th Avenue NE"*](#), **Chris Iverson**, P.E., Senior Transportation Engineer, City of Bellevue, Washington and **Franz Loewenherz**, Principal Transportation Planner, City of Bellevue, Washington
- [*"Implementing Leading Pedestrian Intervals \(LPIs\) Equitably"*](#), **Oliver Smith**, Ph.D, City of Portland Bureau of Transportation, Portland, Oregon
- [*"Practical Urbanism - Leveraging Private Interests for Complete Streets"*](#), **Clark Bailey**, P.E., PTOE, Transportation Professional, Kimley-Horn, Birmingham, Alabama
- [*"The Not so Humble Curb: Leveraging Your Most Valuable Asset to Achieve Your Community's Goals"*](#), **Chrissy Mancini Nichols**, National Lead, Curb Management and New Mobility, Walker Consultants, San Francisco, California and **Jeffrey Weckstein**, Parking, Traffic, and Mobility Planner, Walker Consultants, Los Angeles, California
- [*"Planning for the Evolving Curb - A Data Driven and Simulation-based Approach to Sizing Passenger Loading Areas"*](#), **Sai Sirandas**, P.E., Senior Transportation Engineer, Fehr & Peers, San Francisco, California and **Eric Womeldorff**, P.E., Principal, Fehr & Peers, San Francisco, California

1:30 —3:00 p.m. Technical Sessions

Tools for Complete Streets

This session will feature tools and methods for creating complete streets, from street design standards to new technologies for street planning. Presentations will show both urban and rural examples of achieving complete streets from pedestrian crossings to road diets. Learn about complete street projects that improve safety and connectivity while considering context and without breaking the bank and how to consider context given various regions and standards.

Moderator: **Alex Rixey**, AICP, RSP1, Associate, Fehr & Peers

Speakers:

- [*"PED Talk: The Story of One Man's Journey in Taking One STEP at a Time to Reduce Pedestrian Fatalities and Serious Injuries - The Mission, the Challenges, the Joys, and the Hope"*](#), **Peter Eun**, Transportation Safety, STEP, FHWA, Raleigh, North Carolina
- [*"A More Complete Street: Incorporating New Technologies into Street Plans"*](#), **Lisa Nisenon**, Vice President, New Mobility and Connected Communities, WGI, West Palm Beach, FL

- [“Nanaimo Goes Dutch: Complete Street Standards, Design Guideline, & Metral Drive Complete Street Project”](#), **Annalisa Fipke**, P.Eng, Project Engineer, City of Nanaimo, Nanaimo, British Columbia and **Roy Symons**, P.Eng, Manager, Transportation Planning, ISL Engineering and Land Services Ltd.
- [“What Can Urban Areas Borrow From Rural Areas and Does “Complete Streets” Mean the Same in this Context for Everyone if you are in Europe, Canada or in U.S.?”](#), **Elisabeth Hofbauer-Spitzer**, M.SC, P.Eng, Senior Transportation Engineer, Transoft Solutions, Richmond, British Columbia and **Vanessa Skelton**, P.Eng, Transportation Planning and Traffic Engineering Lead – Canada, GHD, Ottawa, Ontario
- [“Creating Safe Solutions for Vulnerable Road Users Without Breaking the Bank!”](#), **Amy Rosepiller**, P.E., Director - Columbus Roadway Design, Burgess and Niple, Inc., Columbus, Ohio and **Molly Loucks**, P.E., Roadway Design, Burgess & Niple, Boise, Idaho

What Have Connected Vehicle Pilots Taught Us To-Date?

This session highlights practical experience and lessons learned from deployment of connected vehicles as explained by the agencies themselves. Agency experiences on the panel range from the county, state, and local agency level.

Moderator: **Eric Rensel**, Vice President, Gannett-Fleming

Speakers:

- [“Highway 52 Connected and Automated Vehicle Study - A Grassroots Study Laying the Foundation for Statewide CAV Deployments”](#), **Jacob Folkeringa**, P.E., Principal, SRF Consulting Group, Minneapolis, Minnesota and **Cory Johnson**, P.E., CAV / ITS Program Lead, Minnesota Department of Transportation, Minneapolis, Minnesota
- [“Connected Vehicle Messaging: Lessons Learned from the WYDOT Connected Vehicle Pilot”](#), **Shane Zumpf**, Application Development Lead, Trihydro, Laramie, Wyoming
- [“Preparing for Connected and Automated Vehicles: A County’s Perspective”](#), **John Abraham**, Ph.D, P.E., PTOE, Director of Traffic & Operations, Macomb County Department of Roads, Mount Clemens, Michigan and **Joseph Bartus**, P.E., PTOE, Senior Project Engineer, HNTB, Detroit, Michigan
- [“New York City Connected Vehicle Performance Insights”](#), **David Benevelli**, P.E., Associate Vice-President, TransCore, Peachtree Corners, Georgia and **Keir Opie**, Principal, Cambridge Systematics, New York, New York, and **Robert Rausch**, Vice-President, TransCore, Richmond, Texas
- [“Integrating Signal Interference, Testing and OEMs for the THEA CV Pilot Expansion”](#), **Robert Frey**, Director of Planning and Innovation, Tampa Hillsborough Expressway Authority, Tampa, Florida

Pivoting to Virtual Public Engagement

The COVID-19 pandemic has forced public agencies and their consultants to rethink their approach to engaging the public and obtaining meaningful public input. This session will feature a panel discussion exploring the strategies that have been successfully adopted by public agency officials and their consultants in order to engage the public and keep their projects moving forward.

Moderator: **Jennifer Toth**, P.E., Director / County Engineer, Maricopa County Department of Transportation

Speakers:

- [**Kristi Sebastian**, Traffic Engineer, Dakota County, Minnesota](#)
- [**Eric Lamb**, P.E., FITE, Transportation Planning Manager, and **Tiffanie Mazanek**, Communications Analyst, City of Raleigh, North Carolina](#)
- [**Kristin Darr**, Principal and Owner, Central Creative, Phoenix, Arizona](#)

3:10 —3:55 p.m. Poster Presentations

Speakers:

- [*“Mobility as a Service: Coordinating Transit and New Mobility Services”*, **Katherine Kortum**, Ph.D, P.E., Senior Program Officer, Transportation Research Board, Washington, District of Columbia](#)
- [*“A Personalized Plan for Measuring Incremental Progress Towards Transportation Goals”*, **Jenna Bogert**, P.E., Transportation Engineering Associate, DKS Associates, Salem, Oregon](#)
- [*“Transportation Energy Analytics Dashboard”*, **Mark Franz**, Ph.D, Senior Transportation Analyst, Center For Advanced Transportation Technology Laboratory, College Park, Maryland and **Rick Ayers**, Public Sector Advocate, CATT Lab, College Park, Maryland](#)
- [*“Mitigating VMT Impacts with TDM: California’s SB743 Implementation Experience”*, **Fernando Sotelo**, Associate Engineer, Kittelson and Associates, Orange, California](#)
- [*“Maximize Trip Generation Estimation Validity”*, **Paul Basha**, P.E., PTOE, Traffic Engineering Manager, Summit Land Management, Scottsdale, Arizona](#)
- [*“Clackamas County Transit Development Plan”*, **Krista Purser**, P.E., Engineer, Kittelson & Associates, Inc., Portland, Oregon](#)
- [*“Congestion Pricing and the Balanced Transportation Analyzer – Reducing Congestion, Raising Revenue, and Improving Quality of Life”*, **Adam Selver**, Traffic Engineer III, HNTB, New York, New York](#)

4:00 —5:30 p.m. Technical Sessions

30 Minute Delivery: Understanding Micrologistics Trends and Transport Planning

As users catch up with new warehouse and distribution typologies, e-tailing giants and grocers are again reinventing land uses, building types, and new delivery vehicle formats in the quest to move closer to customers. This session demystifies how e-commerce has disrupted the traditional supply chain for retail and groceries, including the micrologistics that are affecting land use planning and architecture as well as impacting economics and real estate.

Moderator: **Daniel Haake**, AICP, CMILT, ENV SP, Senior Transportation Planner, HDR

Speakers:

- [“Connecting Urban Goods and Services: The Final 50 Feet”](#), **Christopher Eaves, P.E.**, Senior Civil Engineer, City of Seattle, Seattle, Washington
- [Rick Stein](#), Principal and Owner, Urban Decision Group, Grandview Heights, Ohio
- [Lisa Nisenson](#), Vice President, New Mobility and Connected Communities, WGI, West Palm Beach, Florida
- **Jason Sudy**, Principal, OHM Advisors, Columbus, Ohio

Improving Safety Through Speed Limit Setting

Public agencies are recognizing that changing approaches to speed limit settings will lead to reducing serious injuries and fatalities. National organizations have recommended new guidance to setting speeds based on data other than just prevailing speeds. Several major U.S. cities have lowered city-wide statutory speed limits as part of Vision Zero efforts. In this session, you will hear from agency staff working at the local, state, and national levels on why and how they are focused on adopting new practices to speed limit setting.

Moderator: **Peter Koonce**, P.E., Engineer, City of Portland (Oregon) Bureau of Transportation

Speakers:

- [Wendy Cawley, P.E.](#), City Traffic Engineer, City of Portland, Oregon
- [“Improving Safety Through Speed Limit Setting and Speed Limit Practices”](#), **Charlotte Claybrooke**, Planner, Washington State Department of Transportation, Olympia, Washington
- [Jenny O’Connell](#), Senior Program Manager, National Association of City Transportation Officials, New York, New York
- [Eric Bollich, P.E.](#), PTOE, Managing Engineer, City of Austin Transportation Department, Austin, Texas

Big Data and Cloud-Based Solutions for Improved TSMO

This session is all about data-enabled practical TSMO solutions being deployed today. The data driven solutions highlighted are not only applicable to traffic mobility, but also to safety and across multiple modes.

Moderator: **Mark Spencer**, T.E., Senior Principal, W-Trans

Speakers:

- [“Leveraging Cloud-Based Technology for Optimizing Signal Timing and Real-Time Adaptive Signal Control”](#), **Farhad Pooran**, Ph.D, P.E., Vice President, Econolite Systems, Econolite, Anaheim, California
- [“Winnipeg Transit Master Plan – Using Location Based Device Data to Plan Transit Routes”](#), **Robert Kurylko**, P.Eng, Senior Transportation Engineer, Stantec, Winnipeg, Manitoba
- [“Data-Driven Guardrail Prioritization Program in Clark County, WA”](#), **Matthew Braughton**, P.E., Associate Planner, Kittelson & Associates, Inc., Sacramento, California and **Courtney Furman**, P.E., Traffic Engineer, Clark County, Washington
- [“Hawaii Department of Transportation \(HDOT\) and University of Hawaii Deploy Connected Vehicle Program to Analyze Signal and Corridor Optimization”](#), **Ed Sniffen**, Deputy Director of Highways, Hawaii Department of Transportation, Anaheim, California and **David Ma**, Professor and Interim Associate Dean, University of Hawaii Manoa, Honolulu, Hawaii, and **Kirk Steudle**, Senior Vice President, Systems, Econolite, Anaheim, California

Recruiting and Retaining Transportation Professionals: Diversity and Inclusion in Recruitment, Mentoring and Career Development

This panel discussion session will focus on inclusive recruitment through improved relationships with Historically Black Colleges & Universities (HBCUs) and other Minority Serving Institutions (MSIs), the importance of a diverse/inclusive workforce, retention, and identifying the gaps which hold the transportation profession back from representing who we serve in society. The discussion will also focus on the importance of mentorship in developing an inclusive workforce, and how our industry needs to rethink our traditional career development pathways to achieve a workforce that reflects the communities we serve.

Moderator: **Shilpa Mallem**, P.E., PTOE, Traffic Engineering Project Manager, HDR

Speakers:

- **Nikotris Perkins**, Assistant Director, Social Equity, Oregon Department of Transportation, Salem, Oregon

- **Charmane Caldwell**, Ph.D, Director, Student Access, FAMU-FSU College of Engineering, Tallahassee, Florida
- **Jennifer Toole**, ASLA, AICP, President, Toole Design Group, Silver Spring Maryland
- **Kiyett Brown**, M.S., Ph.D. Candidate / Graduate Research Assistant, Florida A&M University, Tallahassee, FL

Wednesday, July 28

11:00 a.m.—12:30 p.m. Technical Sessions

Equity in Transportation

This session will highlight how transportation professionals are considering and trying to improve equity in transportation. From transportation system management and operations to sidewalk gaps, presentations will feature tools to consider equity and improve transportation options at the same time. This includes ways to involve the community in projects and ensuring public involvement in the transportation decision-making process.

Moderator: **Keith Hall**, P.E., PTOE, LEED AP, Principal Associate, Colliers Engineering & Design

Speakers:

- [*“Equity in TSMO Planning”*](#), **Briana Calhoun**, Senior Transportation Planner, Fehr & Peers, Beaverton, Oregon and **Caleb Winter**, Program Manager, Metro, Portland, Oregon
- [*“Planning for the Future in Lane County with an Equity Lens using Big Data”*](#), **Kelly White**, DKS Associates, Spokane Valley, Washington
- [*“Evaluating Success: Equity and Automated Speed Enforcement around the United States”*](#), **Taylor Whitaker**, Fehr & Peers, San Jose, California
- [*“Maximizing the Promise of Modern Public Involvement”*](#), **Julia Colman**, P.E., Transportation Engineer, Alliance Transportation Group, Inc., Austin, Texas and **Adam Nodjomian**, EIT, Transportation Analyst, Alliance Transportation Group, Austin, Texas
- [*“Bringing Equity to Infrastructure Investments- Sidewalks Case Study”*](#), **Ramandeep Josen**, Asset Management Specialist, Stantec, Burlington, Massachusetts

Deepening Crowdsourcing for Operations Roots for More Fruitful Benefits

Crowdsourcing is the practice of addressing a need or problem by enlisting the services of a large number of people via technologies. The crowdsourced landscape for local and state transportation systems management and operations has matured through vehicle probe, mobile application, and social media data. By leveraging free or vendor-provided data, agencies represented in this session have improved their decision-making at tactical, real-time, and more strategic programmatic levels to improve safety, trip reliability, and operations.

Moderator: **James Colyar**, Transportation Specialist, Federal Highway Administration

Speakers:

- [**James Colyar**](#), Transportation Specialist, Federal Highway Administration, Olympia, Washington
- [**Ed Blayney**](#), Civic Technology Manager, City of Louisville, Kentucky

- [Justin Effinger, Lead Writer and Proposal Manager, No Traffic, Franklin, Wisconsin](#)
- **John Roberts**, Engineering Manager, Arizona Department of Transportation, Phoenix, Arizona

Best Practices From the Transit Community

This session will provide best practices in the rapidly evolving space of transit, from technology to practices. It will feature methods and research on automated bus rapid transit, high-capacity transit corridors, comprehensive evaluation of public transit benefits and best practices in handling transit projects during the COVID-19 pandemic.

Moderator: **Arjan Van Andel**, Public Transportation Partnerships, Uber

Speakers:

- ["Bringing Automated Driving to Public Transit", Jerome Lutin, PH.D, P.E., AICP, F.ITE, Senior Director of Statewide and Regional Planning \(retired\), New Jersey Transit, Monmouth Junction, New Jersey and Richard Mudge, Ph.D, President, Compass Transportation and Technologies, Potomac, Maryland](#)
- ["From Mobility to Accessibility based Planning: Implications for Public Transit", Todd Litman, Executive Director, Victoria Transport Policy Institute, Victoria, BC](#)
- ["Meeting the COVID-19 Public Transport Challenge in Innovative Ways: Examples from Southeast Asia and East Asia", Ronald Boenau, P.E. International Transport Research Advisor, Greensboro, North Carolina and Md Mokaddesul Hogue, Ph.D, E T Consultant, The World Bank, Transport, South Asia Region \(ISAT1\), Dhaka, Bangladesh](#)

12:40 — 1:25 p.m. Poster Presentations

Speakers:

- ["Improving Pedestrian Safety by Managing Urban Speeds through Traffic Signal Operations", David Craft, P.E., PTOE, Transportation Engineer, Kimley-Horn, Atlanta, Georgia](#)
- ["Successes in Grade Crossing Safety Near Traffic Signals", Samuel Bobko, P.E., PTOE, Senior Traffic Engineer, Mott MacDonald, Cleveland, Ohio and Alejandro Chock, EIT, Engineer, Mott MacDonald, Cleveland, Ohio](#)
- ["Road/Rail Crossing Reduction Study in Fairbanks and North Pole, Alaska", Jessica Miranda, P.E., Project Engineer, Kinney Engineering, LLC, Anchorage, Alaska and Jeanne Bowie, P.E., Ph.D, PTOE, Senior Transportation Engineer, Kinney Engineering, LLC, Anchorage, Alaska](#)

- [*"America's First Dynamic Left Turn Intersection \(DLTi\)"*, **Jeremy Chapman**, Ph.D, P.E., PTOE, RSP1, FITE, South Carolina Traffic Operations State Lead / Senior Traffic Safety Engineer, Ramey Kemp Associates, Asheville, NC](#)
- [*"Proposing the POP Intersection Design to Enhance Pedestrian Safety and Operations at Signalized Intersections"*, **Peter Yu**, University of Washington, Seattle, Washington](#)
- [*"Accommodating Trucks at Roundabouts: What is a WB-67?"*, **Andrew Thompson**, EIT, Urban Engineers, Inc., Philadelphia, Pennsylvania and **Michael Mastaglio**, P.E., PTOE, Deputy Practice Leader, Urban Engineers, Philadelphia, Pennsylvania](#)
- [*"60,000 People, 12,800 Vehicles – Event Trip Generation in Las Vegas"*, **Devin Moore**, P.E., PTOE, RSP2, Engineer, Kimley-Horn, Las Vegas, Nevada](#)
- [*"Software is Eating the World: A No Added Hardware, Connected Vehicle Data Driven Approach to Automating Signal Retiming"*, **Jatish Patel**, CEO and Founder, Flow Labs, Oakland, California](#)

1:30 –3:00 p.m. Technical Sessions

Safe System Conversation Circle with State and National Leaders

As the Safe System approach—which aims to eliminate fatal and serious injuries—takes hold as a commonly accepted best practice in the quest for Vision Zero, early adopters are learning what strategies and tools work best, and which are harder to implement and build consensus around. This conversation circle will offer an opportunity to hear reflections from state and national leaders in Safe System and then open the discussion to attendees to share their experiences and ask for input on their goals and challenges.

Moderator: **Meghan Mitman**, AICP, Principal, Fehr & Peers

Speakers:

- **Rachel Carpenter**, Chief Safety Officer, California Department of Transportation, Sacramento, California
- **Brenda Young**, State Safety Engineer, Florida Department of Transportation, Tallahassee, Florida
- **Jeff Shaw**, Intersection Safety Program Manager, Engineer, Federal Highway Administration, Chicago, Illinois
- **Meghan Mitman**, AICP, Principal, Fehr & Peers, Walnut Creek, California

Traffic Analysis, Modeling and Simulation Cornucopia: Core Competencies, Incorporating New Data Sources, Analyzing Emerging Technology

Traffic analysis, modeling, and simulation (TAMS) has evolved rapidly, placing increasing demand on practitioners to: utilize new data sources in model development, analyze complicated mitigation strategies (e.g., emerging technology), and use new software tools. This session will highlight these practices.

Moderator: **Eric Tripi**, P.E., PTOE, Regional Transportation Leader, GHD

Speakers:

- [“Calibrating Microsimulation Models with Trajectory Level Data”](#), **Rachel James**, Ph.D, Research Engineer, Federal Highway Administration, McLean, Virginia
- [“Using Big-Data for Corridor Analysis in Lieu of Field Data Due to COVID-19 Impacts”](#), **Raj Paradkar**, P.E., PTOE, Senior Project Manager, Kimley-Horn, Reston, Virginia and **Kavita Chapuri**, P.E., Senior Transportation Engineer, Kimley-Horn, Reston, Virginia
- [“Core Competencies of the Traffic Analysis, Modeling, and Simulation Practitioner”](#), **Chris Melson**, Program Manager, Louisiana Transportation Research Center, Baton Rouge, Louisiana

Big Data Safety Applications

This session highlights a variety of current and potential data-driven applications focused on improving transportation safety and the benefits that they can provide.

Moderator: **Abbas Mohaddes**, President and Chief Operating Officer, Econolite

Speakers:

- [“Getting ITS Devices Out of Their Sandboxes and Working Together”](#), **Nathan Beauheim**, P.E., PTOE, Civil Engineer II, City of Loveland, Loveland, Colorado
- [“The Increasing Trend in Pedestrian Fatalities: Understanding Where, When, and Why”](#), **Brian Tefft**, RSP1, Senior Researcher, AAA Foundation for Traffic Safety, Washington, District of Columbia and **Lindsay Arnold**, MPH, RSP1, Researcher, AAA Foundation for Traffic Safety, Washington, District of Columbia
- [“Pavement Friction Management: Linking Safety and Asset Management”](#), **Ryland Potter**, Director of Business Development, WDM USA Limited, Richmond, Virginia
- [“Utilizing Big Data for Safety Analysis in the City of the Future”](#), **Nichole McCarty**, AICP, Assistant to the Town Manager, Town of Gilbert, Arizona and **Rae Stephani**, EIT, Senior Engineering Designer, Y2K Engineering, LLC, Mesa, Arizona

3:10 —3:55 p.m. Poster Presentations

Speakers:

- [*“Rail Crossing Information System \(RCIS\)”*](#), **Ian Steele**, P.Eng, President and Senior Systems Engineer, PBX Engineering Ltd., Victoria, British Columbia
- [*“Addressing Pedestrian Safety on Arterials: North Carolina Case Studies”*](#), **Lauren Blackburn**, Senior Project Manager, VHB, Raleigh, North Carolina and **Brian Mayhew**, P.E., CPM, State Traffic Safety Engineer, North Carolina Department of Transportation, Raleigh, North Carolina
- [*“Improving Safety through Road User Education”*](#), **Lindsey Van Parys**, P.E., QSD/P Project Manager, GHD, Roseville, California
- [*“New Applications of Data Science for Local Vision Zero Efforts”*](#), **Julien Refour**, M.Sc., Senior Data Scientist, UrbanLogiq, Vancouver, British Columbia
- [*“Prioritizing Safety and Mobility during Pavement Rehabilitation Projects”*](#), **Smita Sharma**, M.S., EIT, Applications Engineer, Lindsay, Omaha, Nebraska and **Laura Huizinga**, Technical Sales Manager – Road Zipper, Lindsay, Omaha, Nebraska
- [*“Leveraging AI-Based Findings for Strategic Crash Prevention in Southern Nevada”*](#), **Paul-Matthew Zamsky**, Head of Strategic Partnerships, Waycare, Los Angeles, California

4:00 —5:30 p.m. Workshops

- **Reforming Traffic Impact Analysis to Incorporate Safety and Multimodal Transportation**
- **Proactive Tools and Treatments to Address Roadway Safety**
- **Game of Modes (CANCELLED)**

Thursday, July 29

11:00 a.m.—12:30 p.m. Technical Sessions

Measures for Managing Speed

This session will explore the effectiveness of speed reductions in urban areas. It will feature the effectiveness of speed limit reductions on urban roads with a high percentage of active travelers and how the built environment contributes to driver behaviors.

Moderator: **Cheryl Walker**, Associate Administrator for Safety, Federal Highway Administration

Speakers:

- [*“How the Built Environments Shapes Driver Behavior: An NDS Study”*](#), **Patricia Tice, P.E.**, AICP, Research Assistant, University of Central Florida, Winter Garden, Florida
- [*“Evaluating the Effectiveness of Speed Limit Reductions on Urban Roads with a High Percentage of Active Travelers: A Before and After Analysis in Portland, OR”*](#), **Jaelyn Schaefer**, EIT, Portland State University, Beaverton, Oregon
- [*“Hillsborough - Vision Zero High Injury Network Corridors”*](#), **Paula Flores**, Transportation Planning Practice Leader, Greenman-Pedersen, Inc, Tampa, Florida and **Lisa Silva**, Principal Planner, Hillsborough MPO, Tampa, Florida

Focusing on the User – Balancing Safety and Mobility at Traffic Signals

In this session, several methods are discussed for managing and adjusting traffic signal timing with advanced features and upgrades to hardware to improve roadway safety and operations.

Moderator: **Andrew Velasquez**, P.E., PTOE, Program Manager – Planning and Traffic Engineering, AECOM

Speakers:

- [*“Traffic Signal Operations: Balancing Safety and Mobility - UDOT Experiences”*](#), **Mark Taylor**, P.E., PTOE, Traffic Signal Operations Engineer, Utah DOT, Salt Lake City, Utah
- [*“Improving User Experience at Congested Arterials Using Advanced Traffic Signal Controller Features”*](#), **Shazia Malik**, Transportation Engineer, Virginia Department of Transportation (VDOT), Fairfax, Virginia and **Veera Gunda**, P.E., Transportation Engineer, Serco, Inc., Fairfax, Virginia
- [*“How Upgrading One Traffic Signal Cabinet Alleviated a Systemwide Transit Bottleneck”*](#), **Adam Moore**, P.E., Senior Engineering Associate, City of Portland Bureau of Transportation, Portland, Oregon and **Maggie Lin**, Ph.D, P.E., PTOE, Transportation Engineer, DKS Associates, Portland, Oregon
- [*“Operating FYAs with a Focus on Safety”*](#), **Philip Kulis**, P.E., PTOE, RSP2, SRF Consulting Group, Inc., Minneapolis, Minnesota

Edge Lane Roads – New Uses and Safety Performance

An edge lane road, also referred to as an advisory bike lanes or advisory shoulders, is a road facility used for decades in other countries but is new to North America. They are commonly used to accommodate bicycles on roads too narrow for other bicycle facilities. This session will present novel uses of edge lane roads, and the latest safety information on this newer to North America type of bicycle facility.

Moderator: **Michael Williams**, Owner, Michael Williams Company

Speakers:

- **Michael Williams**, Owner, Michael Williams Company, Mt. Shasta, California
- [David Peterson, City Engineer, City of Port Townsend, Port Townsend, Washington](#)
- [Tom Kassmel, Town Engineer, Town of Vail, Vail, Colorado](#)
- [Anurag Pande, Professor of Civil Engineering, Cal Poly – San Luis Obispo, San Luis Obispo, California](#)

12:40 — 1:25 p.m. Poster Presentations

Speakers:

- [“Shaping the Narrative Around Traffic Injury: Why and How Transportation Professionals Should Engage with Local News Media”](#), **Seth LaJeunesse**, CAGS, MCRP, Senior Research Associate, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina
- [“School Road Safety Audits in Action”](#), **Marielena Gutierrez**, School Outreach Coordinator, AECOM, Atlanta, Georgia and **Jack Anninos**, EIT, State Bicycle & Pedestrian Engineer, Georgia Department of Transportation
- [“We Closed Canada's National Highway - Did it Go According to Plan?”](#), **Mariya Otten-Andrew**, P.Eng, PTOE, Principal Consultant, WSP, Vancouver, British Columbia
- [“Using Technology to Improve Safety in the Eye of the Storm”](#), **Tom McCullough**, P.E., Senior Design Engineer, Kimley-Horn and Associates, Inc., Phoenix, Arizona and **David Locher**, P.E., TSMO Systems Maintenance Manager, Arizona Department of Transportation, Phoenix, Arizona
- [“Towards Zero Deaths – How the Utah Traffic Incident Management Coalition is Saving Lives”](#), **Pat Gallagher**, Project Manager, Parsons, Las Vegas, Nevada
- [“Major Incident Response Innovation – Towing & Recovery Incentive Program \(TRIP\)”](#), **Tom Clark**, PMP, Vice President, Parsons, Arlington, Virginia

- [“Using Part-time Shoulder Lanes as Managed Lanes to Improve Reliability in Congested Urban Corridors”, Raj Paradkar, P.E., PTOE, Senior Project Manager, Kimley-Horn, Ashburn, Virginia and Kavita Chapuri, P.E., Senior Transportation Engineer, Kimley-Horn, Reston, Virginia](#)

1:30 —3:00 p.m. Technical Sessions

Updating the MUTCD: What’s Being Proposed and What’s Being Said

The 2009 Manual on Uniform Traffic Control Devices (MUTCD) is being updated in 2021, in a process that has generated more than 25,000 comments. Attend this session to hear more about the proposed revisions to the MUTCD, the process being used for the update, ITE’s role and feedback, and the need for a comprehensive reexamination of the MUTCD’s scope, content and structure.

Moderator: **Randy McCourt**, P.E., PTOE, Past President, Institute of Transportation Engineers

Speakers:

- [Gene Hawkins, P.E., Ph.D, Professor, Texas A&M University, College Station, Texas](#)
- [Steve Jewell, P.E., PTOE, Consultant, New Albany, Ohio](#)
- [Jeff Lindley, P.E., Deputy Executive Director / Chief Technical Officer, Institute of Transportation Engineers, Washington, DC](#)
- [Dongho Chang, P.E., PTOE, City Traffic Engineer, City of Seattle, Washington](#)

Legal Liability: Perspectives From Both Sides

This session will include presentations by two attorneys based in the Pacific Northwest who are involved in traffic crashes and liability issues, one a defense attorney who is active on the National Committee on Uniform Traffic Control Devices and one a plaintiff’s attorney who is active in Oregon Walks and helped to fund a Portland Pedestrian Collisions study. The session will include ample time for audience Q&A.

Moderator: **Rock Miller**, P.E., PTOE, Principal / CEO, Rock E. Miller & Associates

Speakers:

- [Andrew Cooley, Keating Bucklin & McCormack, Inc., P.S., Seattle, Washington](#)
- [Scott F. Kocher, Forum Law Group LLC, Portland Oregon](#)

TSMO Performance Management Using Cutting Edge CAV Techniques

This session is about demonstrating futuristic TSMO solutions using the connected and automated vehicle applications currently being implemented today across the United States.

Moderator: **Martin Knopp**, P.E., Associate Administrator for Operations, Federal Highway Administration

Speakers:

- [*“Intersection Health: Automatically Identifying Traffic Performance Inefficiencies Using Existing Infrastructure at the Intersection”*](#), **Sajad Shiravi**, P.Eng, M.Sc., Product Manager, Miovision Technologies, Kitchener, Ontario
- [*“Holistic Arterial Performance Analysis”*](#), **Lance Ballard**, P.E., Traffic Engineer, Kimley-Horn and Associates, Austin, Texas
- [*“Gainesville Signal Phase and Timing \(SPaT\) Trapezium Project”*](#), **Md Omar Faruk**, CAV and TSM&O Engineer, HNTB, Tallahassee, Florida and **Raj Ponnaluri**, Ph.D, P.E., PTOE, PMP, State Connected Vehicles, Arterial Management, Managed Lanes Engineer, Florida Department of Transportation, Tallahassee, Florida
- [*“Shared Autonomous Vehicles - First and Last Mile Connectivity”*](#), **Obaid Khan**, P.E., Senior Project Manager, Gray-Bowen-Scott, Walnut Creek, California and **Sai Midididdi**, P.E., Associate Engineer (Traffic), City of Dublin, California

4:00 – 5:30 p.m. Closing Plenary Session