



2016 Smart Transport Symposium

Schedule of Events

- 9:30–10:00** Registration & Coffee
- 10:05–10:10** Welcome & Opening Remarks
- 10:10–10:35** *Bringing Smart Transport to Texans: Ensuring the Benefit of a Connected & Autonomous Transport System in Texas* (Paul Avery, Chris Claudel & Lisa Loftus-Otway) [TxDOT 0-6838]
- 10:35–11:00** *An Assessment of Autonomous Vehicles: Traffic Impacts & Infrastructure Needs* (Steve Boyles) [TxDOT 0-6847]
- 11:00–11:25** *Implications of Automated Vehicles on Safety, Design & Operation of the Texas Highway System* (Kara Kockelman) [TxDOT 0-6849]
- 11:25–11:50** *Commercial Truck Platooning: Level 2 Automation* (Mike Lukuc) [TxDOT 0-6836]
- 11:50–11:55** Morning Wrap-up & Announcements
- 11:55–12:55** Lunch (served in 3.108 with seating in 3.108 & 3.102 {the main presentation room})
- 12:55–1:05** *Assessment of Innovative & Automated Freight Systems & Development of Evaluations Tools* (Curtis Morgan) [TxDOT 0-6837]
- 1:05–1:20** *Automated & Connected Vehicle (AV/CV) Test Bed to Improve Transit, Bicycle & Pedestrian Safety* (Katie Turnbull) [TxDOT 0-6875]
- 1:20–1:45** *Policy & Planning Actions to Internalize Societal Impacts of CV & AV Systems into Market Decisions* (Ginger Goodin) [NCHRP 20-102(01)]
- 1:45–2:10** *New Approaches for Testing Connected Highway & Vehicle Systems* (Srini Sunkari) [FHWA BAA No. DTFH61-13-R-0001 Topic 1B]
- 2:10–2:35** *Consumer Acceptance & Travel Behavior Impacts of Self Driving Vehicles* (Ipek Sener) [TTI – PRC Project]
- 2:35–3:00** *Transportation Planning Implications of Automated Vehicles on Texas Highways* (Tom Williams) [TxDOT 0-6848]
- 3:00–3:25** SwRI C/AV Technology Demo Coverage (Paul Avery) [TxDOT 0-6838]
- 3:25–3:30** Thank You & Closing Remarks

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Presenter Bios

The presenters' full bios are provided on the event web page.

- **Paul Avery:** Principal Engineer of Cooperative Systems in SwRI's Intelligent Systems Department. Mr. Avery's areas of expertise include cooperative vehicle systems and architectures, and agent-based modeling and simulation techniques, with focus on decentralized control architectures. A primary technical contributor to SwRI's AV program, Mobile Robotics Technology Initiative (MARTI).
- **Steve Boyles:** Assistant Professor in transportation engineering at UT Austin, and a recognized expert in transportation network modeling and the application of mathematical optimization techniques to transportation problems. Dr. Boyles is a recipient of the National Science Foundation's Faculty Early Career Development (CAREER) award.
- **Chris Claudel:** Assistant Professor in transportation engineering at UT Austin, and a recognized expert in control & estimation of distributed parameter systems, and the use of wireless sensor networks for environmental applications.
- **Ginger Goodin:** Director of the Transportation Policy Research Center at TTI, an initiative to provide data-driven transportation policy research for state and local policy makers. She has been invited as a speaker and thought leader on the topic of state and local policy implications of automated vehicles. In June 2014, Dr. Goodin was appointed by Secretary Anthony Foxx to US DOT's ITS Program Advisory Committee.
- **Kara Kockelman:** The E.P. Schoch Professor of Civil, Architectural and Environmental Engineering at UT Austin, Dr. Kockelman is a recognized expert on AV use and shared AV systems, traveler behavior and crash forecasting, vehicle ownership and use decisions, traffic patterns under congestion pricing and managed lanes, transport emissions and economics, and benefit-cost analysis of transport investments and policies.
- **Mike Lukuc:** Manager of the Connected & Automated Transportation Program and a Research Scientist in the System Reliability Division. Mr. Lukuc spent 6 years at USDOT's NHTSA, where he was a Program Manager for V2V Safety in the Intelligent Technologies Research Division. Prior to NHTSA, he spent 19 years in the auto industry, at GM, Delphi, and Mercedes Benz Research & Development.
- **Curtis Morgan:** Program Manager of the TTI Multimodal Freight Transportation Programs. His work encompasses research, analysis, and evaluation of freight movement by truck, rail, and waterway in Texas and throughout the US. He leads TTI's efforts to study both conventional and higher speed intercity passenger rail. He has led several major research efforts regarding rail safety, freight planning, and PPPs.
- **Ipek Sener:** Assistant Research Scientist in TTI's Austin Planning Division for Travel Forecasting. Dr. Sener earned her PhD in CE from UT Austin in 2010. She is the recipient of the Dr. Robert Herman Most Outstanding Student Award, from the Southwest Region University Transportation Center in 2010, and the TTI Researcher Award in 2014.
- **Srinivasa Sunkari:** Research Engineer in the Connected and Automated Transportation Program. Mr. Sunkari has been at TTI for more than 23 years. His professional interests are in connected vehicles and infrastructure, signalized intersections operations, diamond interchange operations, rail preemptions, and traffic simulation.
- **Katie Turnbull:** Executive Associate Director & Regents Fellow at TTI. Dr. Turnbull's research focuses on managed lanes, transit, shared mobility services, intelligent transportation systems (ITS), freight, and automated & connected vehicle systems. Active in the Transportation Research Board (TRB), she is a current member of the TRB Executive Committee.
- **Tom Williams:** Program Manager of TTI's Travel Forecasting Program, where he manages several travel modelers and transportation planners and coordinates researcher for travel modeling and forecasting. Currently involved in evaluating new/emerging methods and technologies for travel demand models. He is also conducting research on transportation planning and automated/connected vehicles.

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