

## Symposium 2021 Breakout Session Title:

### B302, Part 1/B311 Part 2-Trucking Automation: Delivering Freight on Automated Trucks Today

#### Session Contact/Organizers:

Richard Bishop, Principal, Bishop Consulting

Andrew Krum, Senior Research Associate, Virginia Tech Transportation Institute

#### Session Description

Implementation of connected automated driving system trucking technologies have begun to progress past the stage of testing and demonstrations to deployment and delivery. Fleets are working with technology developers today to identify safety and efficiency gains in on-highway applications and extending off-highway in some cases between depots. Deployment of platooning and solo driverless technologies will produce savings in overall transportation costs.

Since last year's meeting, consolidations and partnerships have accelerated significantly and a new federal government is in place. This session will dig into the details that fleets and developers, as well as states and federal governments are working through to find game-changing solutions today.

The sessions will include a combination of formats to make the most of the virtual event. During the virtual event, the session will include live presentations and panels with time for questions and answers from the moderator and audience.

#### Goals/Objectives/Outputs

- Provide an overview of the current state of the art of automated goods movement and challenges / opportunities going forward.
- Bring together a representative set of stakeholders to discuss advanced and automated freight delivery implementation occurring on-highway today.
- Identification of the recent successes and remaining challenges to apply safety and cost reduction solutions across the stages of trucking automation implementation.

## Agenda

### SESSION ONE

**B302 Wednesday, July 14: 8-11 am Eastern Time**

#### **Government and Public/Private Cooperative Automated Trucking Research**

Moderator: Andrew Krum, VTTI

##### Opening (15 minutes)

- o Richard Bishop, Principal, Bishop Consulting: "Global Automated Trucking Trends"

##### US DOT Updates (45 minutes)

- o NHTSA
- o FMCSA, Jeff Loftus, Chief, Technology Division
- o US DOT Truck Platooning Early Deployment Assessment – Current Status, Hyungjun Park (FHWA), Xiao-Yun Lu (California PATH)

##### Off-Highway Automation Domains (75 minutes)

- o Program of Record: "Optionally Manned Leader-Follower Trucks," Benjamin Hormann, US Army Ground Vehicle Systems Center (invited)
- o Application of Truck Platooning to Forestry Logistics: Jan Michaelsen, FPInnovations
- o ADS Concept of Mixed Operations at Ports: Ognen Stojanovski (Pronto), Martin Walker (VTTI)
- o Research on Automated Drayage: Kirk Claussen, MARAD
- o Port of Virginia Project to Develop Autonomous Truck Accommodations: Zachary Doerzaph, VTTI

##### Break (10 minutes)

##### Panel 1-1: Aiming Towards Deployment: Roadside Interactions (35 minutes)

Moderator: Richard Bishop, Bishop Consulting

Federal and state officials, with extensive involvement by truck OEMs and ADS startups, have been hard at work to adapt current inspection protocols to automated trucking. Latest status, challenges, and future plans will be discussed.

Panelists:

- Wiley Deck, VP, Government Affairs and Public Policy, Plus
- Daniel Goff, Head of Policy, Kodiak Robotics
- Tom Kelly, Innovative Technology Deployment Program Manager, FMCSA
- Jonny Morris, Head of Public Policy & Communications, Embark Trucks
- Zeke Reyna, Strategic Research Analyst, Texas DOT
- Will Schaefer, Director of Safety Programs, Commercial Vehicle Safety Alliance

## SESSION TWO

B311 Wednesday, July 14: 2:30-4:30 pm Eastern Time

### Aiming Towards Deployment: Commercial and Public-Private Partnerships

Moderators: Richard Bishop, Andrew Krum

#### Panel 2-1: Moving Toward Deployment (40 minutes)

As ADS matures, this session will address the implementation of ADS into current truck fleet operations and also the advent of ADS-only fleets. Key challenges and opportunities for truck ADS operating on streets, arterials, and highways will be explored.

Moderator: Richard Bishop, Bishop Consulting

- Robert Brown, Senior Director External Affairs, TuSimple
- Daniel Goff, Head of Policy, Kodiak Robotics
- Shawn Kerrigan, COO and Co-Founder, Plus
- Çetin Meriçli, CEO and Co-Founder, Locomotion
- Joe Putney, Director of Commercial Systems, Robotic Research
- Richard Steiner, Head of Policy and Communications, Gatik
- John Verdon, BD & Partnership Lead for Trucking, Waymo

#### Panel 2-2: Integration with Truck Manufacturers (30 minutes)

A "Level 4 ready" factory-built Class 8 truck is seen as essential to scaling up truck AV. Several partnerships have been announced between OEMs and ADS startups. In this panel we explore the different forms of cooperation, paths to market, and more.

Moderator: Andrew Krum, VTTI

- Robert Brown, Senior Director External Affairs, TuSimple
- Andrew Culhane, Chief Strategy Officer, Torc Robotics
- Paul Konasewich, Director Business Development, PACCAR

#### Panel 2-3: Federal Policy and Legislation (40 minutes)

"AV Bills" are proliferating in Congress while multiple rulemakings are underway at USDOT. What are the implications for ADS trucks? What needs to happen and who needs to do it?

Moderator: Richard Bishop, Bishop Consulting

- Robert Brown, Senior Director External Affairs, TuSimple
- Wiley Deck, VP, Government Affairs and Public Policy, Plus
- Finch Fulton, VP Policy and Strategy, Locomotion
- Daniel Goff, Head of Policy, Kodiak Robotics
- Aravind Kailas, Advanced Technology Policy Director & Public Affairs Volvo Group
- Jonny Morris, Head of Public Policy & Communications, Embark Trucks
- David Quinalty, Head of Federal Policy & Government Affairs, Waymo
- Richard Steiner, Head of Policy and Communications,

Gatik Wrap-Up: Andrew Krum, VTTI (10 minutes)