

## PRELIMINARY PROGRAM

As of July 6, 2021 and subject to change

Breakout agendas are available for all sessions. Click on the appropriate session title.

Day One		MONDAY, July 12, 2021
EDT (UTC-4)		
9:00 – 9:15 a.m.	<b>Opening Remarks</b> Jane Lappin, Chair, TRB Committee on Vehicle-Highway Automation Neil Pedersen, Executive Director, Transportation Research Board	
9:00 a.m. – 1:00 p.m.	<b>Virtual Hallway for Q&amp;A</b> – <i>During this time, attendees can enter to discuss what was presented during each panel and/or presentations.</i>	
9:15 – 9:40 a.m.	<b>Keynote Speaker</b> Secretary Pete Buttigieg (invited), U.S. Department of Transportation	
9:40 – 10:15 a.m.	<b>Presentations</b> Kristin Kolodge, Executive Director of Driver Interaction and HMI, J.D. Power <b><i>Voice of the Customer: Experience Matters</i></b> Mauricio Peña, Chief Safety Officer, Waymo <b><i>Safety at Waymo</i></b>	
10:15 – 10:55 a.m.	<b>Panel – Opportunities in Automated Local Package Delivery</b> <i>Steven Shladover, University of California, Berkeley (Moderator)</i> Akshat Patel, CTO & Co-Founder, Udelv; Ram Vasudevan, Assistant Professor & Co-Founder, University of Michigan and Refraction AI; Ryan Tuohy, Senior VP of Business Development, Starship	
10:55 – 11:10 a.m.	<b>Presentation – U.S. Department of Transportation</b> Meera Joshi, Deputy Administrator, Federal Motor Carrier Safety Administration	
11:10 – 11:55 a.m.	<b>Panel – Automated Trucking</b> <i>Richard Bishop, Bishop Consulting (Moderator)</i> Sam Saad, Head of Strategic Initiatives, Gatik; Sam Abidi, Head of Business Development, Embark Trucks; David Thomas, Senior Manager, Global Supply Chain Network Design & Optimization, HP Inc.; Benjamin Hormann, U.S. Army; Wayne Scott, Senior Director of Transport Maintenance, Loblaw	
11:55 a.m. – 12:00 p.m.	<i>Plenary Wrap-up</i>	
12:00 p.m. – 1:00 p.m.	<i>Break</i>	
1:00 – 4:00 p.m.	<b>Breakout Sessions</b> B101-An Inside Look at Policy-Making for Automated Vehicles B102-Sharing AVs: Policies and Impacts in a Post-COVID World	

	<p><b>Breakout Sessions (continued)</b></p> <p>B103-Driving AV Data Exchange between Public and Private Sectors</p> <p>B104-Advances in Automated Transit Buses</p> <p>B105-Enabling Technologies: A Peek Under the Hood, Part 1</p> <p>B106-Automated Driving System (ADS) Safety Metrics in Theory and Practice</p>
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Day Two		TUESDAY, July 13, 2021
EDT (UTC-4)		
8:00 – 11:00 a.m.	<p><b>Breakout Sessions</b></p> <p>B201-New Horizons for Connected, Cooperative &amp; Automated Mobility (CCAM) in Europe</p> <p>B202-Designed, Wheeled, Delivered II: Scaling Up Automated Delivery Vehicles &amp; Devices</p> <p>B203-Integrated Traffic Management and CVs/CAVs for Freeways and Arterials</p> <p>B204-Inclusive by Design: Creating an Equitable and Accessible Automated Future</p> <p>B205-Enabling Technologies: A Peek Under the Hood, Part 2</p> <p>B206-ADS Simulation and Testing, Part 1: What's New?</p>	
11:00 – 11:30 a.m.	<i>Break</i>	
11:30 – 11:50 a.m.	<p><b>Daily Round-up: Highlights from Prior Day's Breakout Sessions</b></p> <p>Valerie Shuman, Shuman Consulting Group, LLC</p>	
11:30 a.m. – 2:30 p.m.	<p><b>Virtual Hallway for Q&amp;A</b> – <i>During this time, attendees can enter to discuss what was presented during each panel and/or presentations.</i></p>	
11:50 a.m. – 12:10 p.m.	<p><b>Keynote Speaker</b></p> <p>Robert Sumwalt, National Transportation Safety Board</p>	
12:10 – 12:55 p.m.	<p><b>Presentations</b></p> <p>Alexander Kraus, Executive Chair, International Alliance for Mobility Testing and Standardization</p> <p><b><i>IAMTS - An Alliance to Internationally Accelerate and Harmonize Safe Deployment of Connected and Automated Vehicles</i></b></p> <p>Robert Moss, Stanford University</p> <p><b><i>Validation of Safety Critical Decision Making Systems</i></b></p> <p>Pnina Gershon, Research Scientist, Massachusetts Institute of Technology</p> <p><b><i>Driver Behavior and the Use of Automation in Real-World Driving</i></b></p>	
12:55 – 1:45 p.m.	<p><b>Panel – Understanding Critical Challenges for Safer Deployment of AVs with the Automated Vehicle Safety Consortium (AVSC)</b></p> <p><i>Amy Chu, Director, AVSC (Moderator)</i></p> <p>John Maddox, Senior Director, Autonomous Safety and Compliance, Lyft;</p> <p>Kevin Gay, Program Manager, Aurora; Tony D'Amato, Manager, AV System Safety, Ford; Derek Caveney, Executive Engineer, Toyota Motor North America</p>	

1:45 – 2:00 p.m.	<b>Presentation</b> Avinash Balachandran, Senior Manager, Extreme Vehicle Dynamics Control, Toyota Research Institute <b><i>Guardian: Sharing Control with the Driver to Improve Safety</i></b>
2:00 – 2:05 p.m.	<i>Plenary Wrap-up</i>
2:05 – 2:30 p.m.	<i>Break</i>
2:30 – 4:30 p.m.	<b>Breakout Sessions</b> <b>B207-Planning for the Unknown: Connected, Autonomous, Shared &amp; Electric (CASE) - CANCELLED</b> B208-Proxy Metrics for Social Equity Considerations of Automated Vehicles B209-Public and Private Sector Collaboration to Advance Automated Driving Systems Testing and Deployment B210-Automated Shuttles and Buses for All Users B211-Older Adults and Automated Driving Systems B212-Computational and Algorithmic Challenges for AI Applications in the Era of CAVs

<b>Day Three</b>		<b>WEDNESDAY, July 14, 2021</b>
<b>EDT (UTC-4)</b>		
8:00 – 11:00 a.m.	<b>Breakout Sessions</b> B301-Efficiency Town Hall: AV Fuel Economy & Efficiency Regulations and Technologies, Part 1 B302-Trucking Automation: Delivering Freight on Automated Trucks Today, Part 1 B303-AVs in Rural America: Equity and Mobility for All B304-AV to Road User Communications: What Have We Learned from Research? B305-Safety Assurance of Automated Driving, Part 1 B306-ADS Simulation and Testing, Part 2: Approaches for Collaboration And Validation	
11:00 – 11:30 a.m.	<i>Break</i>	
11:30 – 11:50 a.m.	<b>Daily Round-up: Highlights from Prior Day's Breakout Sessions</b> Valerie Shuman, Shuman Consulting Group, LLC	
11:30 a.m. – 2:30 p.m.	<b>Virtual Hallway for Q&amp;A</b> – <i>During this time, attendees can enter to discuss what was presented during each panel and/or presentations.</i>	
11:50 a.m. – 11:55 a.m.	<b>Keynote Speaker</b> Honorable Gary Peters, U.S. Senator, State of Michigan	

11:55 a.m.– 12:40 p.m.	<p><b>Panel – What’s Ahead for AV Legislation and Regulations?</b>  <i>Sam Mintz, Transportation Reporter, Politico (Moderator)</i>  Hilary Cain, Vice President, Technology, Innovation, and Mobility Policy, Alliance for Automotive Innovation; Cian Cashin, Director, Government Affairs, American Association of Motor Vehicle Administrators; Jack Gillis, Executive Director, Consumer Federation of America; David Friedman, Vice President of Advocacy, Consumer Reports; Ariel Wolf, Partner, Venable LLP</p>
12:40 – 1:25 p.m.	<p><b>Panel – State DOT Automated Vehicle Research and Collaboration Activities</b>  <i>Nick Hegemier, Managing Director of Infrastructure, Ohio Department of Transportation - DriveOhio (Moderator)</i>  Kristin White, Executive Director, Connected and Automated Vehicles, Minnesota Department of Transportation; Carole Delion, Division Chief, Connected &amp; Automated Transportation Systems, Maryland Department of Transportation; Darran Anderson, Director of Strategy and Innovation, Texas Department of Transportation</p>
1:25 – 1:55 p.m.	<p><b>Keynote Discussion - Developing and Deploying Clean Automated Vehicles Safely at Scale</b>  <i>Marjory Blumenthal, The Carnegie Endowment for International Peace (Moderator)</i>  Chris Urmsen, CEO, Aurora and Dr. Steven Cliff, Acting Administrator, National Highway Traffic Safety Administration</p>
1:55 – 2:00 p.m.	<i>Plenary Wrap-up</i>
2:00 – 2:30 p.m.	<i>Break</i>
2:30 – 4:30 p.m.	<p><b>Breakout Sessions</b>  B307-Efficiency Town Hall: AV Fuel Economy &amp; Efficiency Regulations and Technologies, Part 2  B308-Ticket to Ride: City Council Hearing on Autonomous Transit Vehicle  B309-The Long and Winding Road: Planning and Network Analysis for CAV  B310-Reading the Road Ahead: Highway Agency Efforts in Supporting ADAS and HAV Integration with the Roadway Environment  B311-Trucking Automation: Delivering Freight on Automated Trucks Today, Part 2  B312-Preparing for AVs and Shared Mobility: How Critical is Connectivity?</p>

<b>Day Four</b>		<b>THURSDAY, July 15</b>	
<b>EDT (UTC-4)</b>			
9:00 a.m. – 12:00 p.m.	<p><b>Breakout Sessions</b>  B401-Ensuring Strong Public Support for Automation in the Planning Process  B402- Shark Tank: Everything from Free Freight to AV for Low- Income Travelers to how many AV Firms will Survive?  B403-Remote Support for Automated Vehicle Operations  B404-The Managed and Shared Roads to AV Deployment: How can we get there?  B405-Safety Assurance of Automated Driving, Part 2  B406-What's Next in AV Standards?</p>		



12:00 – 1:00 p.m.	<i>Break</i>
1:00 – 1:20 p.m.	<b>Daily Round-up: Highlights from Prior Day’s Breakout Sessions</b> Valerie Shuman, Shuman Consulting Group, LLC
1:00 – 4:30 p.m.	<b>Virtual Hallway for Q&amp;A</b> – <i>During this time, attendees can enter to discuss what was presented during each panel and/or presentations.</i>
1:20 – 1:35 p.m.	<b>Presentation – U.S. Department of Transportation</b> Dr. Steven Cliff, Acting Administrator, National Highway Traffic Safety Administration
1:35 – 1:55 p.m.	<b>Presentation – U.S. Department of Transportation Automated Vehicle Research Activities</b> Kevin Dopart, Program Manager for Connected Vehicle Safety and Automation, U.S. DOT Intelligent Transportation Systems Joint Program Office (ITS JPO)
1:55 – 3:10 p.m.	<b>Presentations about International Activities</b> Jane Doherty, Director, International Policy, Fuel Economy and Consumer Programs, National Highway Traffic Safety Administration <b><i>Why the UNECE Matters to the Future of Automated Vehicles</i></b> Isobel Pastor, Head of CCAV, Centre for Connected and Automated Vehicles <b><i>Shaping the Future of Transport: Automated Mobility in the UK</i></b> Tom Alkim, Policy Officer, Connected & Automated Driving, European Commission <b><i>Connected, Cooperative and Automated Mobility in Europe</i></b> Seigo Kuzumaki, Program Director SIP-adus; Fellow, Advanced R&D and Engineering Company, Toyota Motor Corporation <b><i>Development of “Driving Intelligence Validation Platform” for ADS Safety Assurance</i></b>
3:10 – 3:40 p.m.	<b>Panel – Automation in Shared Mobility and Public Transportation</b> <i>Kelley Coyner, Principal, Innovation4Mobility (Moderator)</i> Kirk Burcar, Vice President, Engineering Services, New Flyer and MCI; Bernard Schmidt, Vice President of Automation and Innovation, Jacksonville Transportation Authority; Dennis Solensky, Public Transit Administrator, Bureau of Public Transportation, Connecticut Department of Transportation
3:40 – 4:25 p.m.	<b>Panel – The Business of Automated Vehicles and the Path to Commercialization</b> <i>Grayson Brulte, Brulte &amp; Company (Moderator)</i> David Welch, Detroit Bureau Chief, Bloomberg; Joann Muller, Transportation Correspondent, Axios; Alan Ohnsman, Senior Editor, Forbes
4:25 – 4:30 p.m.	<i>ARTS21 Wrap-up</i>