



## TRB Truck and Bus Safety - Carrier Safety Management Subcommittee

Marquis Salon 14 (M2), Marriott Marquis

Monday, January 10<sup>th</sup>, 2022, 8:00-9:30 a.m. ET

### Agenda

- 1) Welcome and introductions
- 2) Presentations (10-15 minutes each)
  - a) *Effective Strategies to Improve Safety, Case Studies of Commercial Motor Carrier Safety Advancement*
    - i) Matt Camden, Senior Research Associate & Team Leader for Research to Practice & Outreach, Division of Freight, Transit, & Heavy Vehicle Safety, Virginia Tech Transportation Institute
  - b) *Industry Recommended Practices for Improving Safety Culture and Utilizing Monitoring Technologies in the Oil and Gas Industry*
    - i) Andrew Miller, Senior Research Associate, Division of Freight, Transit and Heavy Vehicle Safety, Virginia Tech Transportation Institute
  - c) *Overview of Recent Carrier Safety Management Research from the American Transportation Research Institute (ATRI)*
    - i) Dan Murray, Senior Vice President for ATRI
  - d) *Update on the FMCSA Beyond Compliance Research Effort*
    - i) Brenda Lantz, Associate Director, Upper Great Plains Transportation Institute, North Dakota State University
  - e) *The National Road Safety Partnership Program (NRSP) Establishment of the Construction Logistics and Community Safety in Australia (CLOCS-Initiative)*
    - i) Jerome Carslake, Director, NRSP
    - ii) Abstract and pre-recorded presentation available at [www.ugpti.org/trb/truckandbus/meetings/2022/materials.php](http://www.ugpti.org/trb/truckandbus/meetings/2022/materials.php)
  - f) *System Thinking Tool for Light and Heavy Motor Vehicles*
    - i) Sharon Newnam, Associate Professor and Associate Director, Systems Safety Team, Monash University, Accident Research Centre
    - ii) Report and pre-recorded presentation available at [www.ugpti.org/trb/truckandbus/meetings/2022/materials.php](http://www.ugpti.org/trb/truckandbus/meetings/2022/materials.php)



- 3) Review of Research Needs Statements and discussion of future research needs
  - a) RNS: Women Commercial Drivers & Safety.
    - i) Examine the safety and operational performance of women commercial drivers with the potential outcome of increasing their numbers.
  - b) RNS: Improved Safety Management for Prime Contractor & Subcontract Carriers.
    - i) Analyze and document safety challenges which might exist in large transport operations making extensive use of subcontract carriers and drivers.
    - ii) Identify and articulate effective safety management practices for such organizations, both from the perspective of “parent” companies and their small subcontractors.
  - c) RNS: Carrier Based Validation of Driver Selection Tools.
    - i) Conduct carrier-based validation studies of various tests and measurements used for driver selection and other assessments to improve driver selection.
  - d) Validation of Driver Analytic Modeling.
    - i) As part of the above project or separately, validate analytic modeling of driver safety and retention to prevent spurious inferences due to Type I errors (false positives generated randomly by multiple post hoc comparisons), regression to the mean, and similar pitfalls.
  - e) Improving Carrier Risk Management Practices.
    - i) Identify means for motor carriers to identify and understand their crash risks and available countermeasures in areas beyond regulatory compliance.
  - f) Crash Investigation and Analysis for Carriers.
    - i) Identify and delineate effective carrier practices to investigate and analyze their crashes, considering carriers’ multiple needs to learn from their mistakes, reduce future risks, avoid undue liability and adverse publicity, and treat crash-involved drivers fairly.
  - g) Media for Communications with Small Carriers and Drivers.
    - i) Determine the best media and formats for messages regarding safety information, including new regulations, enforcement, best practices, and time-critical (e.g., traffic, weather, safety recalls) information.
  - h) Ecodriving Pilot Tests and Program Development in North America.
    - i) Ecodriving is a primarily European initiative that promotes fuel economy and lower-risk driving.
    - ii) There is a need for demonstration pilot tests and other activities to develop and promote the concept in North American fleets.