

## Committee on Truck and Bus Safety (ANB70) – Sponsored Events – TRB Annual Meeting – January 10-13, 2016

### Workshop 146 - Convention Center, 103A

#### Doctoral Student Research in Transportation Safety

Peter Savolainen, Iowa State University, presiding

*Workshop*

Safety and Human Factors

Peter Savolainen, Iowa State University, presiding

Sponsored by:

**Sunday**

9:00 AM-

12:30 PM

Section - Safety (ANB00)

Standing Committee on Statistical Methods (ABJ80)

Standing Committee on Transportation Safety Management (ANB10)

Standing Committee on Safety Data, Analysis and Evaluation (ANB20)

Standing Committee on Truck and Bus Safety (ANB70)

ANB00 ABJ80 ANB10  
ANB20 ANB70

This workshop provides an opportunity for doctoral students who have completed, or are nearing completion of, their dissertations to present their cutting-edge transportation safety research findings to a broad audience. For practitioners and researchers in attendance, this session presents a snapshot of some of the ongoing, state-of-the-art safety research that is being conducted at top universities and research institutes around the world.

### Workshop 196 - Convention Center, 144B

#### Economic Competition, Commercial Motor Vehicle Safety, and Driver Health

Michael Belzer, Wayne State University, presiding

*Workshop*

Freight Transportation, Safety and Human Factors, Economics

Sponsored by:

**Sunday**

1:30 PM-

5:30 PM

Standing Committee on Freight Transportation Economics and Regulation (AT010)

Standing Committee on Truck and Bus Safety (ANB70)

Standing Committee on Trucking Industry Research (AT060)

AT010 ANB70 AT060

Global economic competition has become standard following three decades of transportation deregulation. Market regulation has replaced institutional regulation, and regional trade blocs such as NAFTA and the European Union have liberalized regulation across national boundaries, further undermining efforts to regulate operator safety and health. This workshop will present global examples of programs that promote the use of "safe rates" and "chain of responsibility" across supply chains.

<p><b>Monday</b> 8:00 AM- 9:45 AM</p>	<p><b>Event 228 - Convention Center, Salon B</b>  <b>Federal Motor Carrier Safety Administration Safety Activities and Priorities</b>  Steven Smith, Federal Motor Carrier Safety Administration, presiding  <i>Lectern / Spotlight Theme</i>  Safety and Human Factors, Freight Transportation, Spotlight Theme: Research Convergence for a Multi-Modal Future</p> <ul style="list-style-type: none"> <li>• Welcoming Remarks - Kelly Regal, FMCSA</li> <li>• Keynote Address: FMCSA Safety Priorities for 2016 - T. F. Scott Darling, FMCSA</li> <li>• Trends in Commercial Motor Vehicle (CMV) Safety - John Van Steenburg, FMCSA</li> <li>• Enforcement Programs and Priorities - William Quade, FMCSA</li> </ul>	<p>ANB70</p>
<p><b>Monday</b> 10:15 AM- 12:00 PM</p>	<p><b>Event 285 - Convention Center, Salon B</b>  <b>Federal Motor Carrier Safety Administration (FMCSA) Analysis, Research, and Technology Updates and Opportunities</b>  Steven Smith, Federal Motor Carrier Safety Administration, presiding  <i>Lectern</i>  Safety and Human Factors</p> <ul style="list-style-type: none"> <li>• Pedestrian and Bicyclist Safety Trends and Issues - Jenny Guarino, FMCSA</li> <li>• Automated Vehicle and Vehicle Platooning Impact Research - Brian Routhier, U.S. DOT</li> <li>• Updates on the Unified Registration System - Jeffrey Loftus, FMCSA</li> <li>• Findings from the National Academy of Sciences (NAS) Panel Study on Methodological Approaches to Understanding Driver Fatigue - Elizabeth Stuart, Johns Hopkins Bloomberg School of Public Health</li> <li>• Commercial Driver Medical Examinations - Matthew Thiese, University of Utah</li> <li>• Discussion of FMCSA Research Activities - Steven Smith, FMCSA</li> </ul>	<p>ANB70</p>
<p><b>Monday</b> 1:30 PM- 3:15 PM</p>	<p><b>Truck and Bus Operator Health and Wellness Subcommittee, ANB70(3) - Marriott Marquis, Marquis Ballroom Salon 17 (M2)</b>  Jeffrey Hickman, Virginia Tech Transportation Institute, presiding  Freight Transportation, Safety and Human Factors</p>	<p>ANB70 ANB70(3)</p>

<p><b>Monday</b> 1:30 PM- 3:15 PM</p>	<p><b>Truck and Bus Driver Training Subcommittee, ANB70(7) - Marriott Marquis, Marquis Ballroom Salon 16 (M2)</b> Thomas Weakley, Owner-Operator Independent Drivers Association Foundation, Inc. (OOIDA), presiding Education and Training, Freight Transportation, Safety and Human Factors</p>	<p>ANB70 ANB70(7)</p>
<p><b>Monday</b> 3:45 PM- 5:30 PM</p>	<p><b>Event 420 - Convention Center, 102B</b> <b>Truck Underride Issues: Research and Regulatory Actions</b> JoAnn Wells, Insurance Institute for Highway Safety, presiding <i>Lectern</i> Sponsored by:     Standing Committee on Occupant Protection (ANB45)     Standing Committee on Truck and Bus Safety (ANB70) Safety and Human Factors</p> <ul style="list-style-type: none"> <li>• Underride: Design and Testing in Australia and Europe - Raphael Grzebieta, University of New South Wales</li> <li>• “The role of IIHS testing in promoting voluntary improvements to rear underride protection.” - Sean O'Malley, Insurance Institute for Highway Safety/VRC</li> <li>• NHTSA’s preliminary cost/benefit analysis of requirements for rear impact guards and retroreflective material on single unit trucks - Shashi Kuppa, National Highway Traffic Safety Administration</li> <li>• Crashes Involving Single - Unit Trucks that Resulted in Injuries and Deaths - Ivan Cheung, National Transportation Safety Board (NTSB)</li> </ul>	<p>ANB45 ANB70</p>

**Event 449 - Convention Center, Hall E**

**Truck and Bus Safety Research**

Brenda Lantz, North Dakota State University, presiding

*Poster | Practice Ready Paper*

Freight Transportation, Safety and Human Factors

- Effects of Car-Truck Mix on Occurrences of Truck-Related Crashes
  - Chunjiao Dong, University of Tennessee, Knoxville
  - Mark Burton, University of Tennessee, Knoxville
  - Shashi Nambisan, University of Tennessee, Knoxville
  - Jian Sun, Tongji University
  - 16-1287
- Effects of Non-video Onboard Monitoring System on Commercial Motor Vehicle Drivers' Speeding Activity and Seatbelt Use
  - Andrew Krum, Virginia Tech Transportation Institute
  - Susan Soccolich, Virginia Tech Transportation Institute
  - Darrell Bowman, Volvo Group NA
  - 16-2172
- Sensitivity Analysis of Lane Position and Steering Measurements to Fatigue Driving
  - Hui Zhang, Wuhan University of Technology
  - Chaozhong Wu, Wuhan University of Technology
  - Xinping Yan
  - Tony Qiu, University of Alberta
  - 16-2393
- Evaluating Effects of Digital Tachograph Data-Based Traffic Safety Education on Bus Driver Driving Behavior
  - Do-Gyeong Kim, University of Seoul
  - Chungwon Lee, Seoul National University
  - Byung-Jung Park
  - 16-3257
- Tips for Sharing the Road with Commercial Motor Vehicles: Web-Based Approach
  - Naomi Dunn, Virginia Tech Transportation Institute
  - Stephanie Baker, Virginia Tech Transportation Institute
  - Myra Blanco, Virginia Tech Transportation Institute
  - 16-3960

**Monday**  
4:15 PM-  
6:00 PM

ANB70

- Risk Factors Contributing to Fatal Crashes Involving Trucks on National Highways in India
  - Hasan Naqvi, National Highways Authority of India
  - 16-2357
- Evaluation of Effectiveness of Behavioral-Based Safety Education for Chinese Commercial Vehicle Drivers
  - Lian Luo, School of Transportation Engineering Tongji University
  - Xuesong Wang, Tongji University
  - Rongjie Yu, Tongji University
  - Jiao Liu, Tongji University
  - 16-4667
- Developing a Resource Allocation Model to Maximize Benefits of Commercial Motor Vehicle Roadside Inspections
  - Hyeon-Shic Shin, Morgan State University
  - Sanjay Bapna, Morgan State University
  - 16-5595
- Description of Fatal Bicycle-Truck Accidents in the United States: 2000 to 2010
  - Jerome Drescher, University of Washington
  - Anne Goodchild, University of Washington
  - 16-5911
- Modeling Frequency of Truck-Involved and Non-Truck-Involved Crashes on Roadway Segments in Ontario
  - Chris Lee, University of Windsor
  - Ran Ran, University of Windsor
  - 16-6138

<p><b>Tuesday</b> 8:00 AM- 12:00 PM</p>	<p><b>Truck and Bus Safety Committee - Marriott Marquis, Marquis Ballroom Salon 12 (M2)</b> Brenda Lantz, North Dakota State University, presiding Freight Transportation, Safety and Human Factors</p>	<p>ANB70</p>
<p><b>Tuesday</b> 3:45 PM- 5:30 PM</p>	<p><b>Event 680 - Convention Center, 101</b> <b>Using Naturalistic Driving Study Data for Road Safety Analysis: Connecting Crashes to Safety-Critical Events</b> Linda Boyle, University of Washington, presiding <i>Lectern</i> Data and Information Technology, Research (about research), Safety and Human Factors Sponsored by:  <ul style="list-style-type: none"> <li>Standing Committee on Statistical Methods (ABJ80)</li> <li>Section - Safety (ANB00)</li> <li>Standing Committee on Safety Data, Analysis and Evaluation (ANB20)</li> <li>Standing Committee on Truck and Bus Safety (ANB70)</li> </ul> <ul style="list-style-type: none"> <li>• Naturalistic Driving Events: Safety-Critical or Just Supposedly Critical? <ul style="list-style-type: none"> <li>○ Ronald Knipling, Safety for the Long Haul Inc.</li> </ul> </li> <li>• Context-Sensitive Selection of Crash Surrogates for Naturalistic Driving Data <ul style="list-style-type: none"> <li>○ Feng Guo, Virginia Polytechnic Institute &amp; State University</li> </ul> </li> <li>• Risk for Actual or Potential Crash Severity in Rear-end Versus Other Crash Types: The Good, the Bad, and the Ugly Speculation <ul style="list-style-type: none"> <li>○ Trent Victor</li> </ul> </li> <li>• Identifying Crashes and Safety-Critical Events with Common Etiology <ul style="list-style-type: none"> <li>○ Paul Jovanis, Pennsylvania State University</li> </ul> </li> </ul> </p>	<p>ABJ80 ANB00 ANB20ANB70</p>
<p><b>Tuesday</b> 3:45 PM- 5:30 PM</p>	<p><b>Motorcoach Safety Subcommittee, ANB70(2) - Marriott Marquis, Woodley Park (M3)</b> Thomas Yager, Federal Motor Carrier Safety Administration, presiding Safety and Human Factors</p>	<p>ANB70 ANB70(2)</p>

<b>Wednesday</b> 8:00 AM- 9:45 AM	<b>Motor Carrier Alternative Compliance Joint Subcommittee of ANB70, ANB30 - Marriott Marquis, Marquis Ballroom Salon 13 (M2)</b> Gene Bergoffen, MaineWay Services, presiding Freight Transportation, Safety and Human Factors	ANB70 ANB30 ANB70(5)
<b>Wednesday</b> 10:15 AM- 12:00 PM	<b>Truck and Bus Data Subcommittee, ANB70(4) - Marriott Marquis, Woodley Park (M3)</b> Robert Scopatz, VHB, presiding Freight Transportation, Safety and Human Factors	ANB70 ANB70(4)
<b>Wednesday</b> 2:30 PM- 4:00 PM	<b>Truck and Bus Technology Subcommittee, ANB70(6) - Marriott Marquis, Marquis Ballroom Salon 16 (M2)</b> George Reagle, George L. Reagle and Associates, presiding Freight Transportation, Safety and Human Factors	ANB70 ANB70(6)