



TRB ANB70: Truck and Bus Safety Committee

2019 Annual Committee Meeting

Wednesday January 16, 2019

8:00 AM – 12:00 PM

Marriott Marquis

Ballroom Salon 14 (M2)

Full Committee Agenda

1. **Welcome and Introductions: All**
2. **TRB Staff (upon arrival): Bernardo Kleiner**
3. **Mid-Year Meeting Summary & Notes: Andrew King & Bob Scopatz**
4. **Paper Review Summary and Discussion**
 - a. 2019 Papers: Caroline Boris
 - b. 2018 Paper Awards: Bob Scopatz, Jerry Krueger, Scott Valentine

ANB70's Deborah Freund Paper Award

Paper 18-01305

A First Investigation of Truck Drivers' Preferences and Behaviors Using a Prototype Cooperative Adaptive Cruise Control System

Authors:

Shiyang Yang, California Partners for Advanced Transportation Technology
(Corresponding Author)

Steven Shladover, California Partners for Advanced Transportation Technology

Xiao-Yun Lu, California Partners for Advanced Transportation Technology

Hani Ramezani, University of California, Berkeley

Aravind Kailas, Volvo Group North America

Osman Altan, Federal Highway Administration (FHWA)

5. **Committee Membership and Rotation: Bob Scopatz**
6. **Committee Strategic Plan: Joel Ticatch & Bob Scopatz**
7. **Subcommittee Reports:**
 - a. Carrier Safety Management: Sharon Newnam
 - b. Operator Health and Wellness: Erin Mabry
 - c. Motorcoach Safety: Charlie Vits



- d. Data: Andrew Miller
- e. Technology: Abby Morgan

8. Research Coordination/Needs Statements: Nicholas Kehoe

9. Liaison Lightning Round (new feature, top 3 topics for each—summaries available for interested parties)

- a. FMCSA Safety: Steve Smith
- b. FMCSA Regulations: TBD
- c. NHTSA: Alrik Svenson
- d. NTSB: Rob Molloy
- e. CVSA: Will Schaefer
- f. ATA: Dan Horvath
- g. OOIDA: Tom Weakley
- h. ABA: Brandon Buchanan

10. Hot Topics (new feature! ½ hour each including discussion)

- a. Michael Belzer kicking off a discussion of compensation, hours of work, and detention time.

- b. Sharon Newnam kicking off a discussion on older HV Drivers

11. Round Robin (all)

12. Additional Business and Announcements

13. Adjourn

Subcommittee Meetings Minutes

Truck and Bus Operator Health and Wellness Subcommittee, ANB70 (3)

Monday, January 14, 2019 | 8:00 AM- 9:45 AM

Marriott Marquis, Supreme Court (M4)

Jessica Mabry, Virginia Polytechnic Institute and State University, presiding

1. Introductions (8-8:05am)
2. Truck/bus and health related sessions at TRB (8:05-8:10)
3. Presentations and Discussion (8:10-9:35)
 - a. Dr. Matt Thiese, University of Utah (8:10-8:45)
 - b. Dr. Ryan Olson, Oregon Institute of Occupational Health Sciences (8:45-9:20)
 - c. Dr. Gerald Krueger (presenting) and Billy E. Rutherford, American Integrated Training Systems, Inc. (9:20-9:35)
 - i. “Adapting Sleep Hygiene and Fatigue Management for EMS Ambulance Crews”
4. Group discussion on research needs/open comments (9:35-9:45)



5. Closing (9:45am)

Carrier Safety Management Subcommittee, ANB70 (1)

Monday, January 14, 2019 | 10:15 AM- 12:00 PM

Marriott Marquis, Marquis Ballroom Salon 16 (M2)

Sharon Newnam, Monash University, presiding

1. Welcome and Introductions
2. Review of minutes from mid-year meeting
 - a. Contractor safety management
 - b. Chain of Responsibility legislation
3. Research papers
 - a. Yorghos Apostolopoulos & Mike Lemke (Texas A&M University): Systems science and commercial vehicle safety
 - b. Cammie Menendez (NIOSH): Fatigue within the taxi industry
4. Development of a mission statement for the group
 - a. Training and development as primary objective of the subcommittee
5. Open discussion on research needs and next step

Motorcoach Safety Subcommittee, ANB70 (2)

Monday, January 14, 2019 | 1:30 PM- 3:15 PM

Marriott Marquis, Marquis Ballroom Salon 16 (M2)

Charles Vits, IMMI, presiding

1. Welcome and Introductions
2. Review status of Truck and Bus Safety Committee Strategic Planning efforts (Bob Scopatz)
3. Discussion impact of Truck and Bus Safety Committee Strategic Plan to Motorcoach Safety Subcommittee future direction (Bob Scopatz)
4. Open Discussion on Motorcoach Safety research status and needs
5. Close

Truck and Bus Data Subcommittee, ANB70 (4)

Tuesday, January 15, 2019 | 1:30 PM- 3:15 PM

Marriott Marquis, Marquis Ballroom Salon 16 (M2)

Andrew Miller, Virginia Polytechnic Institute and State University, presiding

1. Welcome and Introductions (10 minutes)
2. Product status update/subcommittee outputs (20 minutes)
 - a. Data sources/resources
 - b. Domain e-circular
 - c. Research Needs Statements
3. FMCSA Analysis Division Update (30 minutes)
 - a. Bill Bannister, FMCSA
4. Open forum on research needs and questions (15 minutes)



5. Naturalistic data utility discussion (30 minutes)
 - a. Andrew Miller, Virginia Tech Transportation Institute
 - b. Ron Knipling, Safety for the Long Haul
 - c. Discussion

Truck and Bus Technology Subcommittee, ANB70 (6)

Tuesday, January 15, 2019 | 3:45 PM- 5:30 PM

Marriott Marquis, Marquis Ballroom Salon 16 (M2)

Abby Morgan, Kittelson & Associates, Inc. (KAI), presiding

1. Introductions, All (3:45 – 4:00 pm)
2. Private Industry Update: Peloton Platooning Pilot, **Richard Bishop**, Bishop Consulting (4:00 – 4:20 pm)
3. Public Agency Update: Wyoming DOT CV Pilot Deployment update on winter testing preliminary observations, **Deepak Gopalakrishna**, ICF (4:20 – 4:40 pm)
4. Research Update: FAST DASH, Evaluation 2: Driver Monitoring, **Andrew Krum**, VTTI (4:40 – 5:00 pm)
5. Discussion on Subcommittee Role, All (5:00 – 5:30 pm)
6. Other discussion topics raised by subcommittee members through survey:
 - a. Voluntary Safety Standards: AVs face the issue of voluntary performance standards and performance measures for vehicle control technologies such as automatic emergency braking (AEB) and automatic emergency steering (AES), which are important for safe AV operation. Given the contents of NHTSA's AV 3.0, how could TRB contribute to the national discussion about the use of voluntary standards, most of which do not include any pass/fail criteria? On what basis will safe vehicle operation be defined quantitatively?
 - b. Roadside Inspections: For commercial autonomous vehicles, how will FMCSA and the States be able to do roadside inspections if NHTSA has no performance standards or pass/fail criteria for critical safety systems? The NHTSA/FMCSA connection will be disrupted since FMCSA can't require a CV to be equipped with a specific safety system or specify a certain level of performance if NHTSA doesn't require it.
 - c. ECBS: Electronically controlled braking systems (ECBS) on air braked vehicles retain the pneumatic brake actuation at the wheel ends but use electronic signals to control the operation of the relay valves that control the air pressure to brake chamber at each wheel. This technology is likely to be needed for semi-autonomous and autonomous driving situations, including platooning.