

TRB COMMITTEE ON TRUCK & BUS SAFETY (ANB70)
MID-YEAR MEETING
September 14, 2017
9:00 AM – 12:30 PM Eastern

Location

National Academy of Sciences (NAS) Building, Board Room
2101 Constitution Ave., N.W., Washington, DC 20418
– OR – Conference Call/Web Meeting

Agenda and Discussion

- 1. 8:30 AM – Coffee and networking for in-person attendees**
- 2. 9:00 AM – Meeting Start – Welcome & Introductions – All**
- 3. Review of Annual Meeting 2017 Notes – Erin Mabry**
 - a. Posted at: <http://www.ugpti.org/trb/truckandbus/meetings/>
- 4. Paper Review Summary and Discussion**
 - a. 2017-2018 Papers to Review Summary – Bob Scopatz and Brenda Lantz
 - i. 23 papers, 20 submitted for publication
 - ii. Reminder to please complete reviews by Sept. 15th (site issues have been resolved)
 - iii. Bernardo discussed a change to the paper submission process based on feedback received. Papers submitted only for presentation will now be made available online. Even with this change, a record number of papers were received this year. TRB publishes a maximum of 20% of papers received for publication.
 - iv. Bob mentioned that SME reviewers are needed (strong stats expertise is not required).
 - b. 2016-2017 Deborah Freund ANB70 Paper Award – Bob Scopatz, Jerry Krueger, and Jeff Hickman
 - i. Bob gave overview of the review and decision process, and discussed the winning paper
 - ii. Paper 17-03127 - *Transfer of Training in Basic Control Skills from a Truck Simulator to a Real Truck*
 - iii. *Authors:* Pierro Hirsch, Virage Simulation; Mohamed-Amine Choukou, Department of Rehabilitation, Quebec; François Bellavance, Department of Decision Sciences, Quebec
- 5. Committee Membership**
 - a. Welcome to new members!
 - b. Andrew King, OOIDA (Young Member)
 - c. Sharon Newnam, Monash University (International Member)
 - i. Sharon has volunteered to become Chair for the Alternative Compliance Subcommittee

- d. Peter VanDyne, Liberty Mutual Insurance
 - i. Replacing Ian Noy who withdrew his membership due to a major reorganization at Liberty Mutual
 - e. We do still have one (1) open slot for an employee of a state DOT if anyone has a suggestion
- 6. Committee Communications – Brenda Lantz and Erin Mabry**
- a. Website / Communications Coordination
 - i. Suggestions for website, please send to Brenda or Erin
 - ii. Careers in Motion Networking Fair Jan. 7th at the 2018 Annual Meeting (www.trb.org/Main/Blurbs/176352.aspx)
- 7. FMCSA Report – Safety Research Initiatives – Martin Walker**
- a. New studies
 - i. Civil fines and motor carrier safety
 - ii. Crime prevention for truckers
 - iii. Cybersecurity
 - iv. NAS Improving Motor Carriers Safety Measurement
 - v. Fatigue Management Program (FMP) site maintenance and updates
 - vi. Sensor performance in heavy vehicles
 - vii. Baseline driving performance - automated vehicles
 - viii. Accelerating ABS-adoption and tech transfer
 - ix. Beyond compliance program - Fast Act requirement
 - x. Battelle-side guards to reduce pedestrian fatalities
 - 1. Look at efficacy of these side guards-on tractors not trailers
 - b. Publications
 - i. Roadside interventions model
 - ii. Two (2) driver restart studies - final report and report to congress
 - iii. Heavy and overweight vehicle brake testing
 - iv. Innovative technology deployment
 - v. Pocket guide for truck and bus crashes
 - vi. Fatal crashes publication on website
 - vii. Large truck and bus crash facts
 - c. Information collection requests – OMB - arduous process for data collection
 - i. Several studies under OMB review
 - ii. Sleeper berth pilot program
 - iii. Motor coach carrier practice survey
 - iv. Driver commuting
 - v. Truck and bus maintenance survey
 - d. Automated vehicles - reviewing options for pilot program
 - e. Refer to FMCSA website – One-page summaries on all projects
 - f. FMCSA Data Repository - Rebecca Hammond, VTTI (see presentation)
 - i. Current project with FMCSA - purpose is to develop and maintain a data repository as a means to store all of data collected under FMCSA

projects. Allows outside researchers to access and analyze. Website not yet live. Gave an example of how the website will work, query builder to access data, etc.

- ii. Three (3) different levels of access control - Level 1: public use dataset, de-identified data, requires basic login; Level 2: qualified researcher (show proof of IRB training) - includes certain PII, data use license required; requires data access from a secure data enclave; data sharing requires FMCSA approval; Level 3: requires data enclave support; video access, date/time of events; FMCSA approval required; funding required to support use of enclave
- iii. Highlighted CMV datasets that will be included in the repository
- iv. Website anticipated to go live in December - Rebecca to update at TRB annual meeting
- v. Rebecca's presentation will be posted to Committee website

8. FMCSA Report – Policy and Rulemaking Initiatives – Tom Yager

- a. New administration - changes in operations - slow down of activity as new administration is setting new path. Rulemaking is being slowed or withdrawn (i.e., sleep apnea rulemaking pulled back for further review).
- b. Administrative/housekeeping rulemaking is going forward, i.e., electronic signatures.
- c. Two busy areas -
 - i. ELD rule goes into effect December 2017 - a lot of activity around this
 - ii. Entry level driver training underway - build IT systems and get ready for launch

9. NHTSA Report – Alrik Svenson (see presentation)

- a. Rulemaking and research activity updates
- b. Truck tractor and large bus stability control-currently addressing petition
- c. Speed Limiter rule
- d. Automatic emergency breaking and advanced crash avoidance technology-research reports available on docket
 - i. FOT completed-150 trucks and 3 million miles of data-final report available
 - ii. Issues with first gen systems, wants to look at latest gen systems-current study with VTTI
 - iii. Safety benefits of heavy vehicle crash avoidance systems-new study starting (2-year study)
- e. V2V-couple of projects underway. Demos underway. Report late 2018.
 - i. V2V retrofit feasibility and cost study - final report early 2018
 - ii. Heavy vehicle cyber security study completed - report early 2018
 - iii. New NHTSA website - new web link
 - iv. V2V research docket
- f. Automated vehicles for safety website and link

- g. Staffing changes in rulemaking
 - h. Question: Any cross communication for integrating pedestrian and bicyclists in V2V program?
 - i. Yes: includes different vehicle types too
 - ii. Action: Request for updates on this.
 - i. Question: Is NHTSA looking at blind spot detection for trucks?
 - i. Yes: Volpe study starting this month
 - j. Question: Rollover and window glazing rulemaking status?
 - i. Updates coming in next few months - likely reports under review
- 10. NTSB Report – Rob Molloy (see presentation)**
- a. New chairman
 - b. 4 board members (2 members terms ending soon) - need nominations for members
 - c. Current investigations
 - i. Map of events
 - ii. Pedestrian accidents
 - d. Most wanted list
 - i. Eight (8) relate to trucking and bus
 - ii. Strong focus on highway
 - e. Completed Investigations
 - i. San Jose-bus hit end of barrier as exiting roadway-difficult to see barrier-unfinished road work/barrier
 - ii. Baltimore MD-school bus collision with transit bus. School bus driver seizure history, seizure led to accident; recommended school to audit drivers
 - iii. Speed study on passenger vehicles
 - iv. FL-truck turned in front of Tesla on autopilot-truck driver failure to yield and tesla driver inattention due to autopilot; hand on wheel bad surrogate for driver attention-call for manufacturers to come up with better surrogate for driver attention-call for better data on automated systems
 - f. New investigations
 - i. Freight train hits tour bus-tour bus gets stuck on railroad crossing-issue was road geometry
 - g. Intoxicated light vehicle driver hits bus-bus passengers killed, all lap belts; 3 point belts preferred
 - h. Discussed how electric vehicles that crash may start on fire which can be difficult for first responders
 - i. Comment: Share proprietary info when it impacts safety - i.e., disclose during investigations
 - j. Comment: Somehow externally identify automated vehicles for investigative purpose

11. CVSA Report – Will Schaefer

- a. CVSA conducts its work through its various committees
- b. Enforcement campaigns collect data
- c. Roadcheck results 2018
 - i. CVSA’s International Roadcheck (included 60,000 inspections; resulted in 19.4% of vehicles and 4.7% of drivers placed out of service); 10 percent of motorcoaches were placed out of service.
- d. Operation Airbrake – Brake Safety Day 2018
 - i. Operation Airbrake Brake Safety Day - 9,524 brake inspections were conducted in the May 3rd event: 21% of vehicles were placed out of service; 12% were out of service for brake-related violations; ABS checks were included (but not included in out of service violations); 6 to 8 % of trucks had ABS violations; 15% of trailers had ABS violations.
- e. ELD rule implementation and OOS Criteria and enforcement
 - i. CVSA will begin enforcing ELD rule as a violation on the regulatory effective date, December 18, 2017; however, enforcement will begin placing vehicles OOS for lack of compliant ELD on April 1, 2018.
- f. Annual CVSA conference September 18-21 in Whitehorse, Yukon; CVSA Workshop April 2018 in Portland, Oregon.
- g. May 15-16, 2018 CVSA Brake Safety Symposium in Schaumburg, Illinois.
- h. AV and HACV policy considerations within EIM committee
 - i. CVSA is currently assessing issues and concerns for enforcement related to the development of autonomous and automated vehicle technologies. CVSA will be working on related policy positions.

12. Subcommittee Reports

- a. Subcommittees formed to organize niche interests-updates on committee needs-interest in continuing/meeting at annual meeting, etc.
- b. Suggestion to meet in spring to reevaluate scope of subcommittees
- c. Suggestion to meet additional times outside TRB
- d. Updates since the 2017 Annual Meeting and plans for the 2018 Annual Meeting
- e. Truck and Bus Operator Health and Wellness – Jeff Hickman
 - i. Jeff was unable to attend, but this subcommittee is normally well-attended at the annual meeting, and will plan to meet.
- f. Truck and Bus Safety Data Needs – Bob Scopatz
 - i. No midyear meeting yet, will meet in October. Charge to review data sources and systems-list is out of date. Committee formed RNS. Will plan to meet at the annual meeting.
- g. Motorcoach Safety – Charlie Vits
 - i. Subcommittee has not had a midyear meeting but will attempt to have conference call prior to annual meeting to lay groundwork
 - ii. Subcommittee wants to broaden scope to some type of “multi-passenger commercial vehicle safety” subcommittee that does not infringe on the

defined role of the Truck and Bus Committee. Goal is to have it formally defined by the 2018 meeting, and will plan to meet.

- h. Alternative Compliance – Sharon Newnam
 - i. Held Midyear meeting May 15, 2017 – see meeting minutes and materials posted at:
www.ugpti.org/trb/truckandbus/meetings/2017/subcommittee.php
 - ii. Beyond compliance FMCSA project-ongoing. Process of conducting interviews with large carriers. Constructing ITR. Need OMB approval before surveying carriers.
 - iii. Scope of this subcommittee is under discussion, and will plan to meet at the annual meeting and discuss further
 - iv. Researching data to evaluate effectiveness of programs
 - v. Also researching best practices-definitions, examples, etc.
 - i. Technology – George Reagle
 - i. See new Automated Driving Systems guidance 2.0 listed on NHTSA website - <https://www.nhtsa.gov/press-releases/us-dot-releases-new-automated-driving-systems-guidance>
 - 1. Also reference PDF document posted on the committee web site titled “Automated Driving Systems – A Vision for Safety”
 - ii. Automation is direction of focus for this subcommittee, and will plan to meet at the annual meeting
 - j. Driver Training – Tom Weakley – decision to discontinue this Subcommittee
 - i. No one attends this subcommittee meeting - only three (3) people attended at the last annual meeting
 - ii. How will driver training shift with automation?
 - iii. Tom suspects no research money going to driver training research, therefore no interest.
 - iv. Idea of a committee meeting at a truck show.
 - v. If there is future interest in continuing this subcommittee, with ideas to re-energize it, contact Brenda
- 13. Research Coordination/Needs Statements – Nicholas Kehoe**
- a. List of RNS - available through TRB and linked on our committee website - 62 RNS in 11 focus areas
- 14. Young Member Council Update - Nicholas Kehoe**
- a. Freight and Marine Young Member Lightning Talks and Posters planned for annual meeting-call for abstracts open, ends next week (Sept. 20). Works in progress led by young professionals.
 - i. Contact Nick for further information.
- 15. TRB Updates – Bernardo Kleiner**
- a. Emphasized paper review deadline
 - b. More frequent activities encouraged (beyond annual meeting)

16. 2018 Annual Meeting Activities and Plans – All

- a. Theme: *“Transportation moves the economy of the future”*
- b. January 7–11, 2018
- c. Committee and Subcommittee meetings
- d. FMCSA sessions and Poster session

17. Roundtable discussion – All

- a. Recent research projects / topics of interest
 - i. Younger Driver Assessment Tool – Caroline Boris, ATRI (see presentation)
 - 1. Completed research review, published summary paper; research motivated by driver shortage issues; piloting driver assessment tool
 - 2. Slides will be posted to website
- b. Discussion of a possible committee domain reassessment session in 2018
- c. Suggestion to restructure annual meeting
 - i. Written reports distributed instead of extended verbal reports
 - ii. Use more of annual meeting to discuss committee business
 - iii. Opposing viewpoint that attendees appreciate the verbal reports, and the chance to ask questions
- d. Suggestion to study why didn't a driver crash in a certain situation while another driver did? What did he/she do to avoid the crash? Research suggestion for data mining project - Rob Abbot at Lytx may be a good source.

18. Additional Business and Announcements – All

19. Adjournment of Meeting

20. Tour of the NAS building - Bernardo Kleiner

- a. Thank you to Bernardo for the informational tour!
- b. The meeting was hosted in the Board Room, the 2nd picture at the site: <http://www.nasonline.org/about-nas/visiting-nas/nas-building/the-lecture-and-board-rooms.html>
- c. The Great Hall was a highlight of the tour, with representation from each scientific discipline in its architecture: <http://www.nasonline.org/about-nas/visiting-nas/nas-building/the-great-hall.html>
- d. In addition, the auditorium in the building has been used for Presidential addresses and press conferences: <http://www.nasonline.org/about-nas/visiting-nas/nas-building/auditorium.html>

21. Lunch and networking for in-person attendees