

TRB ACS60: Truck and Bus Safety Committee

2025 Annual Committee Meeting

Wednesday, January 8, 2025

8:00 AM – 12:00 PM (Eastern Standard Time)

Marriott Marquis Salon 10 (M2)

1. Agenda

See the Agenda [here](#).

2. General Items for the Record

The Committee Chair, Mouyid Islam, PhD, opened the meeting by introducing the four subcommittees and their chairs, the secretary, the paper review coordinator (PRC), the committee research needs coordinator (CRC), and the newsletter editor. Those positions are as follows:

CRC: Nicholas Kehoe	Data Needs: Andrew Miller
PRC: Xiaobing Li, PhD	Health & Wellness: Pierre Thiffault, PhD
Secretary: Andrew King	Carrier Safety Mgt: Sharon Newnam, PhD (Dr. Jason Anderson chaired in the absence of Dr. Newnam)
Newsletter Editor: Jack Kong, PhD	Technology: Abby Morgan, PhD

Mouyid then briefly touched on the NAS Policy on Harassment and Bullying,¹ as well as the emergency procedures for the Marriott Marquis and how to record attendance online. Mouyid then shared the importance of the Truck and Bus Safety (ACS60) Committee, stating that fatalities involving large trucks and buses have steadily increased since 2020, as shown in Figures 1 and 2 below. Large-truck-involved fatalities in 2021 and 2022 increased by 17.7% and 20.0%, respectively, since 2020, as shown in Figure 1.

¹ “All forms of discrimination, harassment, and bullying are prohibited in any NASEM activity. This commitment applies to all participants in all settings and locations in which NASEM work and activities are conducted, including committee meetings, workshops, conferences, and other work and social functions where employees, volunteers, sponsors, vendors, or guests are present.” You can report harassment to the staff lead, the study/session chair, or NASEM human resources at hrservicecenter@nas.edu or 202-334-3400.

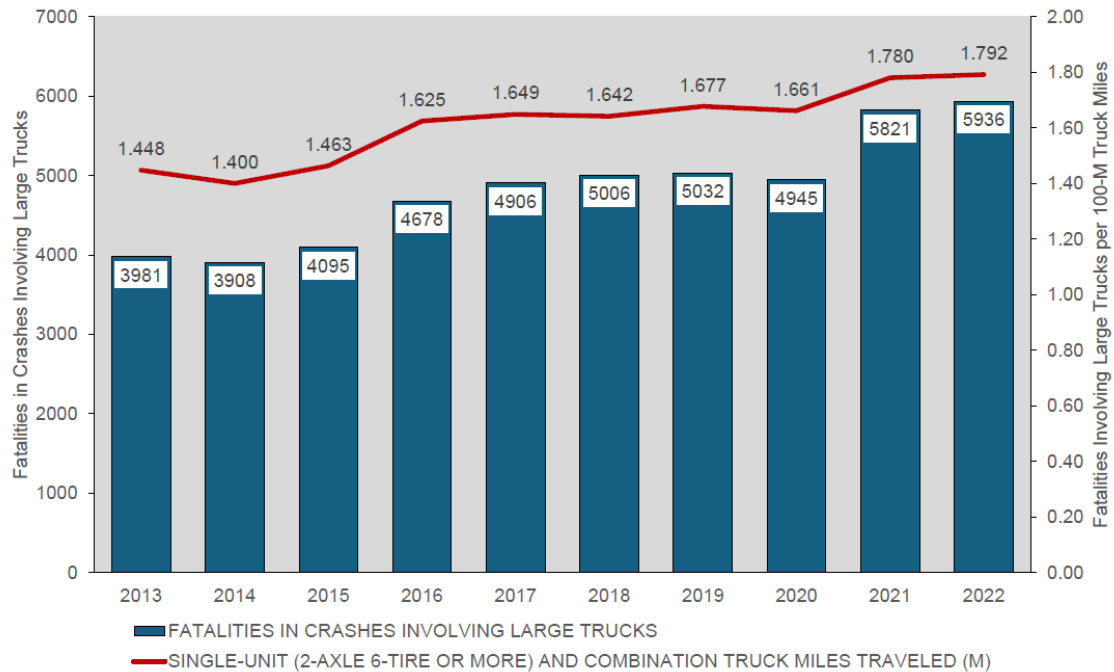


Figure 1: Fatalities and Fatality Rates per 100-M Truck Miles in Crashes Involving Large Trucks in the USA (2013-2023)

Source: National Highway Traffic Safety Administration: Fatality Analysis Reporting System (FARS)

Turning to truck occupants' non-occupants' fatalities, the linear interpolation for both shows an increasing trend from 2013 to 2022. More importantly, truck occupant fatalities increased by 23.1% and 33.6% in 2021 and 2022, respectively, since 2020, as shown in Figure 2.

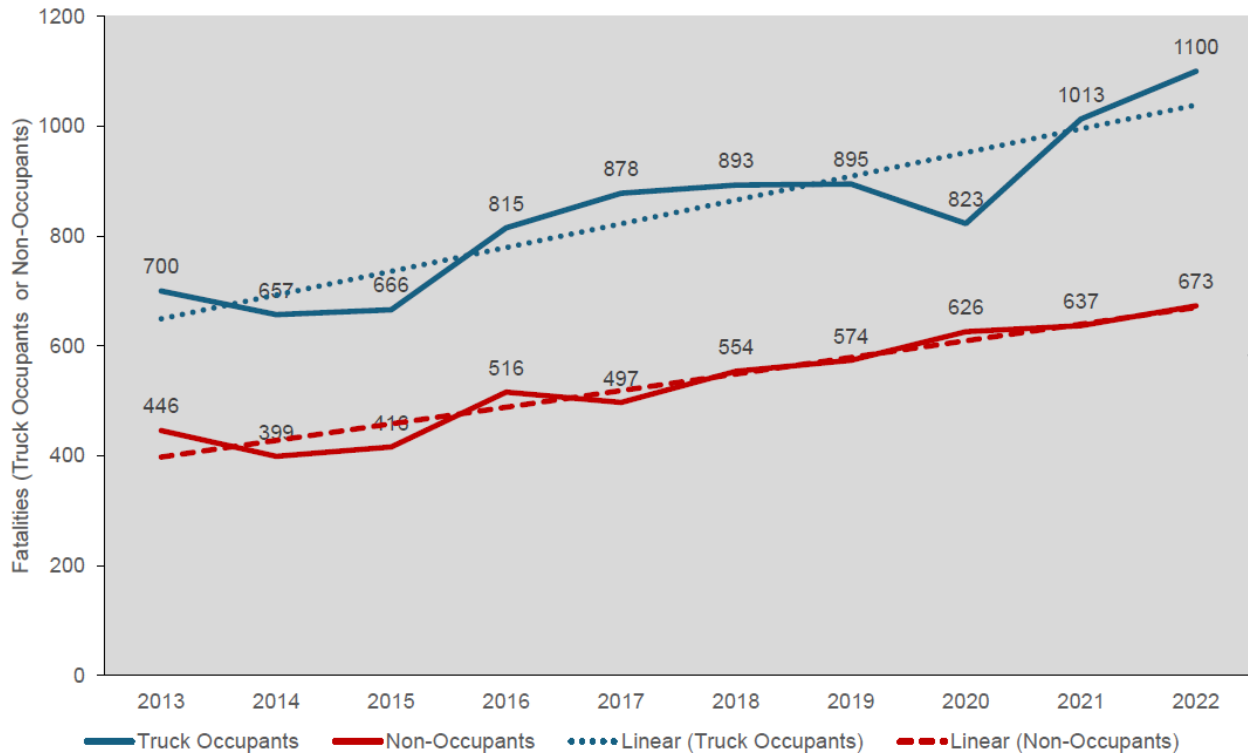


Figure 2: Fatalities of Truck Occupants and Non-Occupants (Pedestrians & Pedalcyclists) in the USA (2013-2022)

Source: National Highway Traffic Safety Administration: Fatality Analysis Reporting System (FARS)

Mouyid encouraged those attending to get more involved in the Committee, and to provide the CRC with new research need statements (at least some innovative ideas with a short description), including research statements concerning efficiency and fuel savings, safety and collision avoidance, regulatory and infrastructure challenges, driver behavior and acceptance, environmental impact, technological integration, traffic flow and congestion, cybersecurity and data privacy, and operational scenarios and use cases. He also expressed the need to expand and diversify the Committee’s membership.

Mouyid stated that the committee is undergoing TRB’s required three-term committee member rotation process, effective April 2025. As part of that process, at least one-third of the total members will need to be rotated off, and possibly more due to exceeding the three-term limit per TRB policy. When it comes to any committee’s membership, the TRB requires committees to adhere to the following guidance:

- Three-term limit for an individual to serve as a committee member
- No more than one member from any single organization
- Membership of no more than two committees simultaneously
- Geographic balance
- Balanced representation of disciplines relevant to the committee’s scope
- Balanced representation of employer types or affiliations

Mouyid also presented a typical timeline for the Committee’s normal activities, as shown in Figure 3. He informed the Committee that the next newsletter would cover some of the highlights of TRB events and activities specific to ACS60, as well as shared trends in the truck and bus safety committee’s activities.

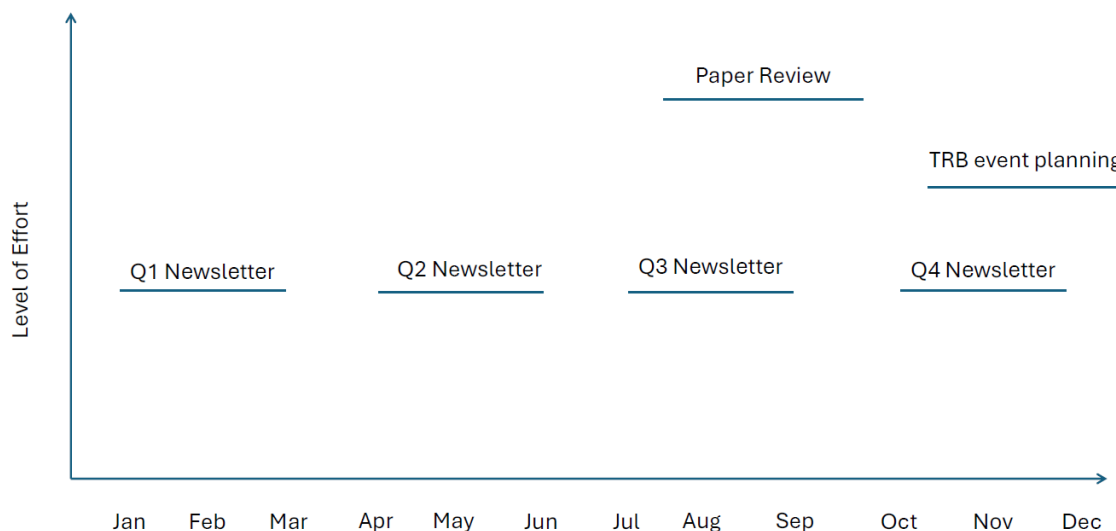


Figure 3: Committee’s Typical Activity Timeline

Finally, the 2024 Best Paper Award in Recognition of Deborah Freund was awarded to Dr. Mouyid Islam for his paper, [*TRBAM-24-05405: An Exploratory Assessment of Driver Injury Severities in Truck Crashes*](#)

[Involving Fatigued and Non-Fatigued Driving](#). The review committee consisted of Brenda Lantz, Jerry Krueger, and Scott Valentine.

3. Committee Program

(a) Invited Speakers and Topics

- Dr. Hany Hassan, Louisiana State University, presented findings from his research titled, *Examining the impacts of truck platooning on Highway networks considering human-automated interactions in a mixed road environment*.
- Dr. Zorica Cvijovic, Trihydro Corporation, presented findings from her research titled, *Connected Vehicles: Advancements, Benefits, and Real-World Applications*.

(b) Lightning Rounds

The following individuals offered presentations on their respective programs.

- NHTSA: Alrik Svenson shared four different ongoing research:
 - Heavy Vehicle Ground Truth Trip Recorder
 - Heavy Vehicle Collision Avoidance Systems (CAS) field operational test study
 - Applied Heavy Vehicle Research Track Testing
 - Heavy Truck Trailer Strikable Target Development
- NTSB: Rob Molloy shared three ongoing NTSB investigations:
 - Pittsburgh Bridge Collapse
 - Williamsburg Crash Investigation
 - Louisville Crash Investigation
- CVSA: Jake Elovirta shared several ongoing initiatives:
 - Level 8 inspection program
 - Post-crash inspection program
 - FMCSA Casual Factor Study
 - Human Trafficking awareness initiative
 - CVSA Webinars for enforcement personnel
 - North American Fatigue Management Program going to Canada
- FMCSA: Jon Mueller shared several initiatives the agency is working on:
 - Carrier Intervention Effectiveness Model (CEIM) report
 - Crash Causal Factors Study Program
 - Safety impacts on driver pay
 - Forward Collision Warning and Lane-Keeping Assist Naturalistic Driving Study
- OOIDA: Jay Grimes shared several initiatives OOIDA is working on:
 - Truck Parking Shortage
 - Broker Transparency
 - Driver Training

4. Committee Business

(a) Subcommittee Reports

The subcommittee reports below can be found on the Committee website by clicking their subsequent links (or contacting the subcommittee chairs).

- Carrier Safety Management – ACS60(1): Jason Anderson (in the absence of Dr. Sharon Newman)
- Operator Health and Wellness – ACS60(3): Pierre Thiffault
- Data Needs – ACS60(4): Andrew Miller
- Technology – ACS60(5): Abby Morgan

(b) Activities since the last meeting

- Continue the virtual meeting (at a reasonable interval with updates/ progress)
- Started a quarterly newsletter
- Developing and finalizing the triannual strategic plan (TSP)

(c) Future Plans and Assignments

- Continuing quarterly newsletter
- Webinar topics with interested committee members/friends in collaboration with other committees
- Recruitment process for members with diverse backgrounds
- Modify the monthly virtual meeting to a reasonable time frame
- Emphasize the need for research needs statements and for the CRC to work closely with the TRB staff and the team

5. Other Business

- Collaboration with Human Factor (ACH30), Occupant Protection (ACS40), and Impairment in Transportation (ACS50) Committees (as an overlapping interest with this committee's focus)