TRB’s involvement in research on Safety & Human Factors from 2019-2020

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All available Snap Searches can be accessed online here: [http://www.trb.org/InformationServices/Snap.aspx](http://www.trb.org/InformationServices/Snap.aspx)

TRB Research

TRID – The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation

- Click here to view search results on TRB published research on Safety & Human Factors within the past year.

Subject Webpages

- Safety & Human Factors Research at TRB
- Behavioral Traffic Safety Cooperative Research Program (BTSCRP)

Specialty Report

- Critical Issues in Transportation 2018

Recent Reports & Publications

- Airport Cooperative Research Program (ACRP)
  - Report 206 - Guidebook on Effective Land Use Compatibility Planning Strategies for General Aviation Airports
  - Synthesis 101 - Communication Strategies for Airport Passenger Access and Mobility
  - Synthesis 95 - Airport Incident Reporting Practices

- Conference Proceedings
  - Proceedings 55 - Airport Roles in Reducing Transmission of Communicable Diseases

- IDEA Projects
  - Safety IDEA 34 - Prototype System for Managing and Analyzing Enterprise Rail Transport Risks of Hazardous Materials
  - Transit IDEA 86 - Advanced Neutral Temperature Estimation using Solitary Waves (ANTEUSW)
  - Transit IDEA 85 - Location Aware Networks Optimizing Use of Transit Systems by Blind Travelers

- National Cooperative Highway Research Program (NCHRP)
  - NCHRP 08-36/Task 146 - Economic Resilience and Long-Term Highway/Transportation Infrastructure Investment
  - NCHRP 22-36 - Synthesis of the Performance of Portable Concrete Barrier Systems
  - NCHRP 25-25/Task 105 - A Guidebook for Communications between Transportation and Public Health Communities
  - Report 930 - Security 101: A Physical and Cybersecurity Primer for Transportation Agencies
• **Report 911** - Guidelines for Slope Traversability
• **Report 910** - Design Guidelines for Horizontal Sightline Offsets
• **Report 904** - Leveraging Big Data to Improve Traffic Incident Management
• **Report 901** - Prioritization Procedure for Proposed Road–Rail Grade Separation Projects Along Specific Rail Corridors
• **Report 894** - Performance of Longitudinal Barriers on Curved, Superelevated Roadway Sections
• **Synthesis 535** - Pedestrian Safety Relative to Traffic-Speed Management
• **Synthesis 533** - Very Short Duration Work Zone Safety for Maintenance and Other Activities

• **Special Reports**
  • **Report 326** - Admissibility and Public Availability of Transit Safety Planning Records
  • **Report 324** - Designing Safety Regulations for High-Hazard Industries
  • **Report 323** - In-Service Performance Evaluation of Guardrail End Treatments

• **Transportation Research Circulars**
  • **E-Circular 250** - Drug-Impaired Driving: Research Needs
  • **E-Circular 243** - SHRP 2 Safety Data Student Paper Competition 2017-2019
  • **E-Circular 242** - A Literature Review of Rail Trespassing and Suicide Prevention Research

**Current & Upcoming Projects**

• **Current Projects**
  • **ACRP 02-79** - Improving AEDT Modeling for Aircraft Noise Reflection and Diffraction from Terrain and Manmade Structures
  • **ACRP 03-49** - Effective Collaboration to Plan and Respond to Communicable Disease Threats
  • **ACRP 03-48** - Advanced Ground Vehicle Technologies (AGVT) for Airside Operations
  • **ACRP 04-19** - Airport Emergency Planning Template: NIMS - Incident Command System Compliance
  • **ACRP 04-21** - Emergency Communication Models for Persons with Disabilities and Non-English Speakers
  • **ACRP 11-01/Topic 10-04** - Updated Survey of Laws and Regulations Applicable to Airport Commercial Ground Transportation
  • **ACRP 11-02/Task 36** - Research Roadmap on Safety Issues
  • **ACRP Synthesis 11-03/Topic S01-19** - Data Acquisition and Protocols for Risk Management
  • **ACRP Synthesis 11-03/Topic S04-21** - Models for Law Enforcement at Airports
  • **ACRP Synthesis 11-03/Topic S04-25** - Escalator Falls
  • **BTSCRCP BTS-01** - Guidance for Employer-Based Behavioral Traffic Safety Programs for Drivers in the Workplace
  • **BTSCRCP BTS-02** - Guide for Behavioral Traffic Safety Messaging on Variable Message Signs
  • **BTSCRCP BTS-03** - Examining the Implications of Legislation and Enforcement on Electronic Device Use While Driving
  • **BTSCRCP BTS-04** - Tracking State Traffic Citation and Adjudication Outcomes
  • **BTSCRCP BTS-06** - Guide for MPO and HSO Coordination on Behavioral Traffic Safety Countermeasures
  • **BTSCRCP BTS-08** - Use of SHRP2 Naturalistic Driving Study Database to Improve Teen Driving Safety: Phase 1 Proof of Concept
  • **BTSCRCP BTS-09** - The Influence of Infrastructure Design on Distracted Driving
  • **NCHRP 03-119** - Application of MASH Test Criteria to Breakaway Sign and Luminaire Supports and Crashworthy Work-Zone Traffic Control Devices
  • **NCHRP 03-127** - Cybersecurity of Traffic Management Systems
  • **NCHRP 03-130** - Guide for Roundabouts
  • **NCHRP 03-132** - Guidance for Safe and Effective Temporary Traffic Control for Mobile Operations on Two-Lane Two-Way Roadways
  • **NCHRP 03-133** - Traffic Signal Design and Operations Strategies for Non-Motorized Users
  • **NCHRP 03-134** - Determination of Encroachment Conditions in Work Zones
  • **NCHRP 03-135** - Wrong-Way Driving Solutions, Policy, and Guidance
  • **NCHRP 05-22** - Guidelines for Solid-State Roadway Lighting
  • **NCHRP 05-23** - Effects of LED Roadway Lighting on Driver Sleep Health and Alertness
  • **NCHRP 05-24** - Guidelines for Vehicle and Equipment Color, Marking, and Lighting
  • **NCHRP 15-65** - Development of Safety Performance Based Guidelines for the Roadside Design Guide
  • **NCHRP 15-68** - Effective Low-Noise Rumble Strips
  • **NCHRP 17-11(02)** - Development of Clear Recovery Area Guidelines
  • **NCHRP 17-43** - Long-Term Roadside Crash Data Collection Program
  • **NCHRP 17-46** - Comprehensive Analysis Framework for Safety Investment Decisions
  • **NCHRP 17-50** - Lead States Initiative for Implementing the Highway Safety Manual
- NCHRP 17-54 - Consideration of Roadside Features in the Highway Safety Manual
- NCHRP 17-57 - Development of a Comprehensive Approach for Serious Traffic Crash Injury Measurement and Reporting Systems
- NCHRP 17-58 - Safety Prediction Models for Six-Lane and One-Way Urban and Suburban Arterials
- NCHRP 17-60 - Benefit-Cost Methodology for Behavioral Highway Safety Countermeasures
- NCHRP 17-62 - Improved Prediction Models for Crash Types and Crash Sevities
- NCHRP 17-63 - Guidance for the Development and Application of Crash Modification Factors
- NCHRP 17-66 - Guidance for Selection of Appropriate Countermeasures for Opposite Direction Crashes
- NCHRP 17-67 - Identification of Factors Contributing to the Decline of Traffic Fatalities in the United States
- NCHRP 17-72 - Update of Crash Modification Factors for the Highway Safety Manual
- NCHRP 17-74 - Application of Crash Modification Factors for Access Management
- NCHRP 17-76 - Guidance for the Setting of Speed Limits
- NCHRP 17-77 - Guide for Quantitative Approaches to Systemic Safety Analysis
- NCHRP 17-78 - Understanding and Communicating Reliability of Crash Prediction Models
- NCHRP 17-79 - Safety Effects of Raising Speed Limits to 75 mph and Higher
- NCHRP 17-82 - Proposed Guidance for Fixed Objects in the Roadside Design Guide
- NCHRP 17-84 - Pedestrian and Bicycle Safety Performance Functions for the Highway Safety Manual
- NCHRP 17-86 - Estimating Effectiveness of Safety Treatments in the Absence of Crash Data
- NCHRP 17-87 - Enhancing Pedestrian Volume Estimation and Developing HCM Pedestrian Methodologies for Safe and Sustainable Communities
- NCHRP 17-88 - Roadside Encroachment Database Development and Analysis
- NCHRP 17-89 - Safety Performance of Part-Time Shoulder Use on Freeways
- NCHRP 17-90 - Validation of Roadside Crash Injury Metrics in Real World Crashes (Correlation of Actual Injury Outcomes to Those Predicted During Crash Testing)
- NCHRP 17-91 - Assessing the Impacts of Connected, Automated and Autonomous Vehicles on the Future of Transportation Safety
- NCHRP 17-92 - Developing Safety Performance Functions for Rural Two-Lane Highways that Incorporate Speed Measures
- NCHRP 17-93 - Updating Safety Performance Functions for Data-Driven Safety Analysis
- NCHRP 20-06/Topic 24-03 - Guidelines for Drafting Liability Neutral Transportation Engineering Documents
- NCHRP 20-07/Task 374 - Guidelines for Selecting Sign Sheeting Materials for AASHTO M268
- NCHRP 20-07/Task 420 - Road User Understanding of Bicycle Signal Symbol Indicators
- NCHRP 20-44(13) - Implementation of NCHRP Research Report 893: The Oregon DOT Statewide Pedestrian and Bicycle Plan
- NCHRP 20-65/Task 76 - Opportunities for State DOTs (and Others) to Encourage Shared Use Mobility Practices in Rural Areas
- NCHRP 20-65/Task 77 - Lessons Learned and Impacts to Date of State DOT Implementation of New Federal Transit Asset Management and Public Transportation Agency Safety Requirements
- NCHRP 20-102(10) - Cybersecurity Implications of CV/AV Technologies on State and Local Transportation Agencies
- NCHRP 20-112 - A Research Roadmap for Transportation and Public Health
- NCHRP 20-121 - State DOT Contributions to the Study, Investigation, and Interdiction of Human Trafficking
- NCHRP 22-29B - Evaluating the Performance of Longitudinal Barriers on Curved, Superelevated Off-Ramps
- NCHRP 22-34 - Determination of Zone of Intrusion Envelopes under MASH Impact Conditions for Barrier Attachments
- NCHRP 22-35 - Evaluation of Bridge Rail Systems to Confirm AASHTO MASH Compliance
- NCHRP 22-37 - Development of a Barrier Design to Accommodate Vehicles, Pedestrians, and Cyclists
- NCHRP 22-40 - Update to AASHTO M 180-18 and Associated Highway Guardrail Specifications
- NCHRP IDEA 20-30/IDEA 203 - Safer Cushions
- NCHRP IDEA 20-30/IDEA 206 - From Location Tracking to Continuous Interpretation: Rule-Based Automated Safety Work Zone Safety
- NCHRP IDEA 20-30/IDEA 212 - Non-Gating Guardrail End Terminals
- NCHRP IDEA 20-30/IDEA 214 - An Enhanced Network-Level Curve Safety Assessment and Monitoring Using Mobile Devices
- **NCHRP IDEA 20-30 / IDEA 217** - A Real-Time Proactive Intersection Safety Monitoring and Visualization System Based on Radar Sensor Data
- **NCHRP Synthesis 20-05 / Topic 51-03** - Pavement Markings Placement and Removal Practices and Its Effect on Work Zone Safety
- **NCHRP Synthesis 20-05 / Topic 50-04** - Utility Pole Safety and Hazard Evaluation Approaches
- **NCHRP Synthesis 20-05 / Topic 49-08** - Pedestrian Safety Relative to Traffic Speed Management
- **Safety IDEA Project 33** - Adaptive Prestressing System for Concrete Crossings
- **Safety IDEA Project 36** - Onboard High-Bandwidth Fiber Optic Sensing System for Broken Rail Detection
- **Safety IDEA Project 40** - Using Light to Reduce Fatigue and Improve Alertness in Railway Operations
- **Safety IDEA Project 41** - Vibration-based Longitudinal Rail Stress Estimation Exploiting Contactless Measurement and Machine Learning
- **TCRP A-44** - Strategies for Deterring Trespassing on Rail Transit and Commuter Rail Rights-of-Way
- **TCRP B-46** - Tactile Wayfinding in Transportation Settings for Travelers Who Are Blind or Visually Impaired
- **TCRP F-26** - Improving the Health and Safety of Transit Workers with Corresponding Impacts on the Bottom Line
- **TCRP F-27** - Characteristics and Elements of Non-Punitive Employee Safety Reporting Systems for Public Transportation
- **TCRP G-17** - Assessing Lifecycle and Human Costs of Bus Operator Workstation Design and Components
- **TCRP I-05 / Topic 18-02** - Codes of Conduct on Transit Vehicles and Property: Legal Issues
- **Transit IDEA I-04 / IDEA 88** - Evaluation of an Automatic, Individual, Computer-Based Operator Education and Training Program

- **Upcoming Projects**
  - **ACRP 01-44** - Airport Insurance Requirements
  - **ACRP 04-24** - Airport Contributions to the Study, Investigation, and Interdiction of Human Trafficking
  - **ACRP 06-08** - Human Factors in Airport Operations
  - **ACRP 08-03** - Construction Safety and Phasing Plans
  - **ACRP 10-29** - Development of Predictive Model of Jet Blast Exposure
  - **ACRP Synthesis 11-03 / Topic S10-17** - Agricultural Operations on Airport Grounds
  - **BTRCRP BTS-10** - E-Scooter Safety: Issues and Solutions
  - **BTRCRP BTS-11** - Ensuring Child Safety in New Travel Modes
  - **BTRCRP BTS-12** - State Practices Promoting Older Driver Safety
  - **BTRCRP BTS-13** - Communicating Safe Behavior Practices to Vulnerable Road Users
  - **BTRCRP BTS-14** - Understanding and Analyzing Crash Contributing Factors (Joint project with NCHRP 22-45)
  - **BTRCRP BTS-15** - Highway Safety Strategies for Rural Communities
  - **NCHRP 03-139** - Next Generation of the USLIMITS2 Speed Limit Setting Expert System
  - **NCHRP 07-28** - Assessing the Safety Impacts of Right-Turn Lanes on Rural and Suburban Highways
  - **NCHRP 15-73** - Design Options to Reduce Turning Motor Vehicle–Bicycle Conflicts at Intersections
  - **NCHRP 15-74** - Safety Evaluation of On-Street Bikeway Designs
  - **NCHRP 15-78** - Trade-offs for Cross-sectional Reallocation on Urban and Suburban Roads
  - **NCHRP 17-95** - Crash Modification Factors for Intelligent Transportation Systems (ITS) Applications
  - **NCHRP 20-102(16)** - Preparing TIM Responders for Connected Vehicles and Automated Vehicles
  - **NCHRP 20-102(18)** - Minimum Safety Data Needed for Automated Vehicle Operations and Crash Analysis
  - **NCHRP 20-113F** - Topical White Papers for the TRB Forum on Automated Vehicles and Shared Mobility
  - **NCHRP 20-124** - Deploying Transportation Security Protocols in State DOTs
  - **NCHRP 22-30** - In-Service Performance Evaluation of W-beam End Terminals
  - **NCHRP 22-32** - Development of Methods to Evaluate Side Impacts for Next Edition MASH
  - **NCHRP 22-33** - Multi-State In-Service Performance Evaluations of Roadside Safety Hardware
  - **NCHRP 22-36(01)** - A Guideline for Connection Details Between Portable Concrete Barrier Segments
  - **NCHRP 22-38** - Development of MASH TL-3 Deflection Reduction Guidance for 31-inch Guardrail
  - **NCHRP 22-39** - 31-in. Midwest Guardrail System (MGS) and Curb Combination Guidelines for MASH TL-3
  - **NCHRP 22-42** - Impact Performance Assessment of Barrier Performance at High Speeds
  - **NCHRP 22-43** - Developing Testing Protocol for a Family of Devices - Signs, Breakaway Poles, and Work Zone Devices
  - **NCHRP 22-44** - Development of a Crash Data Collection Tool and Application Guidelines for MASH In-Service Performance
  - **NCHRP 22-45** - Understanding and Analyzing Crash Contributing Factors
Reports from the National Academies Press on Safety & Human Factors

- Artificial Intelligence Applications for Older Adults and People with Disabilities - Balancing Safety and Autonomy
- The Human Factors of Process Safety and Worker Empowerment in the Offshore Oil Industry
- A Smarter National Surveillance System for Occupational Safety and Health in the 21st Century
- In-Time Aviation Safety Management: Challenges and Research for an Evolving Aviation System

Committees & Panels

Sign-up to be a committee "Friend"

TRB Standing Committees – Search by transportation mode and committee topic

- ABE60 – Accessible Transportation and Mobility
- AFB20 – Roadside Safety Design
- AHB60 – Highway/Rail Grade Crossings
- AL070 – Tort Liability and Risk Management
- AN000 – Safety and Systems Users Group
- ANB00 – Safety
- ANB10 – Transportation Safety Management
- ANB20 – Safety Data, Analysis and Evaluation
- ANB23 – Highway Safety Workforce Development
- ANB25 – Highway Safety Performance
- ANB30 – Operator Education and Regulation
- ANB40 – Traffic Law Enforcement
- ANB45 – Occupant Protection
- ANB50 – Alcohol, Other Drugs, and Transportation
- ANB60 – Safe Mobility of Older Persons
- ANB70 – Truck and Bus Safety
- ANB75 – Roundabouts
- AND00 – Users Performance
- AND10 – Vehicle User Characteristics
- AND20 – User Information Systems
- AND30 – Simulation and Measurement of Vehicle and Operator Performance
- AND40 – Visibility
- ANF10 – Pedestrians
- ANF20 – Bicycle Transportation
- ANF30 – Motorcycles and Mopeds
- AR070 – Railroad Operational Safety
- AT040 – Transportation of Hazardous Materials
- AV090 – Aviation Security and Emergency Management
- AW040 – Marine Safety and Human Factors

Task Forces - Search for task force under committee here

Policy Study

- B0110 - Commercial Truck and Bus Safety Synthesis Program
- B0140 - Offshore Oil and Gas Safety Culture: A Framing Study

CRP Panels

- Project Panels Related to Safety & Human Factors

Councils

- A0040T – Young Member Council

Recent and Upcoming Events
Upcoming Conferences - Left hand menu “upcoming conferences by topic”
(Conferences cosponsored by TRB are denoted with an asterisk.)

5th Conference of Transportation Research Group of India (CTRG)*
December 18, 2019
Bhopal, Madhya Pradesh, India

2020 Joint Rail Conference*
April 20, 2020
St. Louis, Missouri

Transport Research Arena 2020*
April 27, 2020
Helsinki, Finland

6th International Conference on Roundabouts
May 18, 2020
Monterey, California

TRB Transit Safety and Security Conference and APTA Mid-year Safety and Security Seminar
November 16, 2020
Washington, DC

Webinars – View upcoming webinars, suggest a webinar or add registration information

Past Webinars
  o Safety and Human Factors

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TRID – The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation - trid.trb.org

Publications Index (PubsIndex) Database – The papers, articles and reports published by the Transportation Research Board, Highway Research Board, Strategic Highway Research Programs or the Marine Board - pubsindextrb.org

Research in Progress (RiP) Database – Current or recently completed transportation research projects - rip.trb.org

Research Needs Statements (RNS) – Research needs as identified by TRB Technical Activities standing committees - rns.trb.org

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