

**TRB** TRANSPORTATION RESEARCH BOARD

## TRB Snap Search: Rail

### TRB's involvement in research on Rail from 2021-2022

The [Transportation Research Board \(TRB\)](#) provides innovative, research-based solutions to improve how we move. TRB is part of the National Academies of Sciences, Engineering, and Medicine, an independent, non-profit institution that provides objective advice on scientific, engineering, and medical issues.

A resource to the nation and to the transportation community worldwide, TRB provides an extensive portfolio of services:

- Opportunities for information exchange on current transportation research and practice
- Management of cooperative research and other research programs
- Analyses of national transportation policy issues and guidance on federal and other research programs
- Publications and access to research information from around the world

All available Snap Searches can be accessed online here: <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 Rail within the past year.

### Subject Webpage

- [Rail Research at TRB](#)

### Specialty Report

- [Critical Issues in Transportation 2019](#)
- [COVID-19 Addendum to Critical Issues in Transportation](#)
- [Racial Equity Addendum to Critical Issues in Transportation](#)

### Recent Reports & Publications

- [National Cooperative Highway Research Program \(NCHRP\)](#)
  - [Web-Only Document 287](#) - Planning and Implementing Multimodal, Integrated Corridor Management: Guidebook
- [Safety IDEA Program](#)
  - [Report 41](#) - Vibration-based Longitudinal Rail Stress Estimation Exploiting Acoustic Measurement and Machine Learning
  - [Report 40](#) - Using Light to Reduce Fatigue and Improve Alertness in Railway Operations
  - [Report 39](#) - Non-Contact Scour Monitoring System for Railroad Bridges
  - [Report 36](#) - Onboard High-Bandwidth Fiber-Optic Sensing System for Broken Rail Detection
- [Special Reports / Consensus Studies](#)
  - [Report 339](#) - Preparing for LNG by Rail Tank Car: A Review of a U.S. DOT Safety Research, Testing, and Analysis Initiative
- [Transit Cooperative Research Program \(TCRP\)](#)
  - [IDEA Report 92](#) - Augmented Reality Dispatcher Interface
- [Transportation Research Circulars](#)
  - [E-Circular 266](#) - Transportation Asset Management in a COVID-19 World

### Current & Upcoming Projects

- [Current Projects](#)
  - [NCHRP 03-128](#) - Business Intelligence for Transportation System Management and Operations and Agency Decision Making
  - [NCHRP 03-126](#) - Operational Standards for Highway Infrastructure

- [NCHRP 20-116](#) - Emergency Management in State Transportation Agencies
- [NCHRP IDEA 20-30/IDEA 190](#) - Self-Deicing LED Signal for Railroad and Highway Intersections
- [Safety IDEA Project 45](#) - Development of a Fatigue Load for Railway Bridges
- [Safety IDEA Project 44](#) - Laser-based Non-destructive Spike Defect Inspection System
- [Safety IDEA Project 43](#) - Augmenting Reality for Safer Inspections of Railroad Infrastructure and Operations
- [Safety IDEA Project 38](#) - Fatigue Life Extension of Thermite Welds by Porosity Minimization
- [TCRP A-44](#) - Strategies for Deterring Trespassing on Rail Transit and Commuter Rail Rights-of-Way
- [TCRP D-07](#) - Joint Rail Transit Research with the Association of American Railroads/Transportation Technology Center, Inc.
- [TCRP J-11/Task 37](#) - Transit and Micro-Mobility (Bikeshare, Scooter-share, etc.)
- [TCRP Synthesis J-07/Topic SA-50](#) - Cyber Security in Transit Systems
- [Upcoming Projects](#)
  - [NCHRP 17-99](#) - Safety Effectiveness Assessment of Advanced Highway-Rail Grade Crossing Improvements

### Reports from the [National Academies Press](#) on Rail

- [Service Life Assessment and Predictive Modeling for an Aging Critical Infrastructure](#)
- [Harnessing the Value of Co-Creating and Stewarding Places for Health, Equity, and Well-Being](#)
- [Global Change Research Needs and Opportunities for 2022-2031](#)
- [Enhancing Federal Clean Energy Innovation](#)
- [The Future of Electric Power in the United States](#)
- [Reflecting Sunlight - Recommendations for Solar Geoengineering Research and Research Governance](#)
- [Review of Effectiveness and Efficiency of Defense Environmental Cleanup Activities of the Department of Energy's Office of Environmental Management: First Report](#)

### Committees & Panels

[Sign-up to be a committee "Friend"](#)

[Technical Activities Division Standing Committees](#) – Search by transportation mode and committee topic

- [AMR30](#) - Transportation for National Defense
- [AP065](#) - Rail Transit Systems
- [AR000](#) - Rail Group
- [AR010](#) - Intercity Passenger Rail
- [AR020](#) - Passenger Rail Transportation
- [AR030](#) - Railroad Operating Technologies
- [AR040](#) - Freight Rail Transportation
- [AR050](#) - Railroad Infrastructure Design and Maintenance
- [AR060](#) - Rail Transit Infrastructure Design and Maintenance
- [AR070](#) – Rail Safety
- [AR080](#) - Highway/Rail Grade Crossings
- [AT010](#) - Freight Transportation Economics and Regulation
- [AT020](#) - International Trade and Transportation
- [AT030](#) - Agricultural and Food Transportation
- [AT040](#) - Transportation of Hazardous Materials
- [AT045](#) - Intermodal Freight Transport

[Task Forces](#) - Search for *task force* under committee here

### CRP Panels

- [Project Panels Related to Rail](#)

### Policy Study

- [B0137](#) - Evaluation of the Federal Railroad Administration Research and Development Program

### Councils

- [A001C](#) - Young Members Coordinating Council

### Recent and Upcoming Events

[Upcoming Conferences](#) - Left hand menu “upcoming conferences by topic”  
(*Conferences cosponsored by TRB are denoted with an asterisk.*)

[TRB Virtual Careers in Motion Networking Fair](#)

December 8, 2021

Washington, DC

**[11th International Conference on the Bearing Capacity of Roads, Railways, and Airfields\\*](#)**

June 28, 2022

Trondheim, Norway

**[TRANSED: Mobility, Accessibility, and Demand Response Transportation Conference](#)**

September 12, 2022

Online

**[TRB Scenario Planning Conference](#)**

September 19, 2022

Washington, DC

**[Upcoming Events](#)** – In the Upcoming Events tab under Types, choose what event you are interested in, search titles by keyword

**[Past Events](#)** - In the Past Events tab under Types, choose what event you are interested in, search titles by keyword

### **TRB's Transportation Research Information Services (TRIS)**

TRIS includes the **[TRB Library](#)** and the **[TRIS Databases](#)** (listed below) which are available free on TRB's website.

**The TRB Library provides information services to TRB staff, sponsors, TRB Committee members and panels and researchers. Access to the TRB Library is a benefit to TRB sponsors and TRB committee members.**

In cooperation with your State DOT Library or Information Service, the TRB Library provides:

- Reference and research assistance
- Literature searches
- Articles for TRB Committee work

**The TRB Library provides training on effective and efficient use of the following TRIS resources:**

- **Transportation Research International Documentation (TRID)** – [trid.trb.org](http://trid.trb.org) - The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation
- **Transportation Research Thesaurus (TRT)** – [trt.trb.org](http://trt.trb.org) – A tool to improve the indexing and retrieval of transportation information.
- **Research in Progress (RiP) Database** – [rip.trb.org](http://rip.trb.org) - Current or recently completed transportation research projects
- **Research Needs Statements (RNS)** – [rns.trb.org](http://rns.trb.org) - Research needs as identified by TRB Technical Activities standing committees
- **Publications Index (PubsIndex) Database** – [pubsindex.trb.org](http://pubsindex.trb.org) - The papers, articles and reports published by the Transportation Research Board, Strategic Highway Research Programs or the Marine Board

**Contact or Questions:** [TRBLibrary@nas.edu](mailto:TRBLibrary@nas.edu)