TRB Snap Search: Rail Safety Innovations

TRB’s involvement in research on Rail Safety Innovations from 2018-2020

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 Safety Innovations within the past two years.

Subject Webpage

- Rail Research at TRB

Specialty Report

- Critical Issues in Transportation 2019

Recent Reports & Publications

- IDEA Safety Projects
  - Report 34 - Prototype System for Managing and Analyzing Enterprise Rail Transport Risks of Hazardous Materials
  - Report 35 - Non-contact Deflection Monitoring System for Timber Railroad Bridges
  - Report 32 - Railroad Bridge Inspections for Maintenance and Replacement Prioritization Using Unmanned Aerial Vehicles (UAVs) with Laser Scanning Capabilities

Current & Upcoming Projects

- Current Projects
  - NCHRP 08-111 - Effective Decision-Making Methods for Freight-Efficient Land Use
  - NCHRP 20-07/Task 424 - AASHTO Guidelines for the Operation of Movable Bridges from Remote Locations
  - Safety IDEA Project 33 - Adaptive Prestressing System for Concrete Crossstays
  - Safety IDEA Project 29 - Self-Deicing LED Signal for Railroad and Highway Intersections
  - TCRP C-23 - Assessing and Mitigating Electrical Fires on Transit Vehicles
  - TCRP F-27 - Characteristics and Elements of Non-Punitive Employee Safety Reporting Systems for Public Transportation
  - Transit IDEA J-04/IDEA 90 - sUAS-Based GeoINTEL for Commuter Rail Parking in Rural and Suburban Areas

- Upcoming Projects

Reports from the National Academies Press on Rail Safety Innovations

- Negative Emissions Technologies and Reliable Sequestration
- Enhancing Urban Sustainability with Data, Modeling, and Simulation
- Environmental Engineering for the 21st Century

Committees & Panels

Sign-up to be a committee "Friend"

TRB Standing Committees – Search by transportation mode and committee topic

Updated 12/09/2019
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
  - 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.)

Commodity Flow Workshop
April 2, 2020
Washington, D.C.

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

4th International Conference on Transportation Geotechnics*
August 30, 2020
Chicago, Illinois

Second International Conference on 3D Printing and Transportation
November 18-20, 2020

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

Past Webinars
  - Rail Sessions

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:

**TRID** – The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation - [trid.trb.org](http://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 - [pubsindex.trb.org](http://pubsindex.trb.org)

**Research in Progress (RiP) Database** – Current or recently completed transportation research projects - [rip.trb.org](http://rip.trb.org)

**Research Needs Statements (RNS)** – Research needs as identified by TRB Technical Activities standing committees - [rns.trb.org](http://rns.trb.org)

Contact the Library at TRBLibrary@nas.edu or 1 (202) 334-2989