

**TRB** TRANSPORTATION RESEARCH BOARD

## TRB Snap Search: Pavement Design

### TRB's involvement in research on Pavement Design 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 on Pavement Design within the past year.

### Subject Webpage

- [Design Research at TRB](#)
- [Pavement Research at TRB](#)

### Specialty Reports

- [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 \(NCHRP\)](#)
  - [Report 967](#) - Asphalt Binder Aging Methods to Accurately Reflect Mixture Aging
  - [Report 964](#) - Protocols for Network-Level Macrotexture Measurement
  - [Synthesis 553](#) - Performance-Based Pavement Warranty Practices
  - [Synthesis 574](#) - Temporary Pavement Markings Placement and Removal Practices in Work Zones
  - [Web-Only Document 305](#) - Validation of a Performance-Based Mix Design Method for Porous Friction Courses
- [Transportation Research Circulars](#)
  - [E-Circular 251](#) - Relationship Between Laboratory Cracking Tests and Field Performance of Asphalt Mixtures
  - [E-Circular 248](#) - 12th International Conference on Low-Volume Roads

### Current & Upcoming Projects

- [Current Projects](#)
  - [NCHRP 01-54](#) - Guidelines for Limiting Damage to Flexible and Composite Pavements Due to the Presence of Water
  - [NCHRP 01-58](#) - Quantifying the Effects of Implements of Husbandry on Pavements
  - [NCHRP 01-59](#) - Proposed Enhancements to Pavement ME Design: Improved Consideration of the Influence of Subgrade Soils Susceptible to Shrink/Swell and/or Frost Heave on Pavement Performance
  - [NCHRP 01-60](#) - Measuring the Characteristics of Pavement Surface Images and Developing Standard Practices for Calibration, Certification, and Verification of Imaging Systems
  - [NCHRP 01-61](#) - Evaluation of Bonded Concrete Overlays on Asphalt Pavements
  - [NCHRP 20-44\(27\)](#) - Facilitating Balanced Mix Design Implementation
  - [NCHRP 20-50\(20\)](#) - LTPP Data Analysis: Develop Tools to Improve Accuracy of Traffic Loading Data Collection

- [NCHRP 20-50\(21\)](#) - Enhancements of Climatic Inputs and Related Models for Pavement ME Using LTPP Climate Tool (MERRA-2)
- [NCHRP Synthesis 20-05/Topic 52-10](#) - Subsurface Drainage Practices in Pavement Design, Construction, and Maintenance
- [NCHRP IDEA 20-30/IDEA 229](#) - Lab Dielectric Measurement System for Asphalt Mixture Bulk Specific Gravity Determination
- [NCHRP IDEA 20-30/IDEA 224](#) - Development of an Automated and Rapid Conditioning and Testing Device for Cracking and Rutting
- [NCHRP IDEA 20-30/IDEA 232](#) - Measuring Concrete Permeability with CHIP
- [NCHRP IDEA 20-30/IDEA 233](#) - Development of an Innovative Bio-Mediated Self-Healing Concrete Technology
- [Upcoming Projects](#)
  - [NCHRP 09-69](#) - Recommended Procedures for Verifying Material Quantities at Asphalt Mix Plants
  - [NCHRP 09-68](#) - Recycled Asphalt Materials: Binder Availability and Its Impact on Mix Performance
  - [NCHRP 09-67](#) - New Materials & Technology Deployment in Asphalt Pavement Structural Design
  - [NCHRP 10-114](#) - Developing Performance and Safety Specifications for Rejuvenating Seals
  - [NCHRP 14-48](#) - Construction Guide Specifications for Pavement Treatments - Sand Seals and Ultra-thin Bonded Surface Treatments

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

- [Service Life Assessment and Predictive Modeling for an Aging Critical Infrastructure](#)
- [Advancing Urban Sustainability in China and the United States](#)
- [Frontiers of Engineering - Reports on Leading-Edge Engineering from the 2019 Symposium](#)

### Committees & Panels

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

[TRB Standing Committees](#) – Search by transportation mode and committee topic

- [AKM20](#) - Binders for Flexible Pavement
- [AKM30](#) - Asphalt Materials Selection and Mix Design
- [AKP20](#) – Design and Rehabilitation of Concrete Pavements
- [AKP30](#) – Design and Rehabilitation of Asphalt Pavements
- [B0161](#) - Review of Federal Highway Administration Infrastructure R&D – Expert Task Group on Pavement

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

### CRP Panels

- [D0153](#) - NCHRP Project Panel on Proposed Enhancements to Pavement ME Design: Improved Consideration of the Influence of Subgrade and Unbound Layers on Pavement Performance
- [D0159](#) - Proposed Enhancements to Pavement ME Design: Improved Consideration of the Influence of Subgrade Soils Susceptible to Shrink/Swell and/or Frost Heave on Pavement Performance
- [D0957](#) - NCHRP Project Panel on Experimental Design for Field Validation of Laboratory Tests to Assess Cracking Resistance of Asphalt Mixtures
- [D0967](#) - NCHRP Project Panel on New Materials & Technology Deployment in Asphalt Pavement Structural Design
- [SN5210](#) - NCHRP Topic Panel on Subsurface Drainage Practices in Pavement Design, Construction, and Maintenance

### 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

#### [American Society of Civil Engineers \(ASCE\) Geo-Congress 2022\\*](#)

March 20, 2022

Charlotte, NC

[International Data Science for Pavements Symposium\\*](#)

March 22, 2022

Mclean, VA

[International Conference on Roundabouts](#)

April 1, 2022

Monterey, CA

[International Conference on Accelerated Pavement Testing\\*](#)

April 3, 2022

Nantes, France

[International Conference on Nanotechnology of Cement and Concrete](#)

May 23, 2022

Irvine, CA

[International Conference on Managing Pavement Assets \(ICMPA\)\\*](#)

June 7, 2022

Chicago, IL

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

June 28, 2022

Trondheim, Norway

[Bridge Engineering Institute Conference\\*](#)

June 1, 2023

Singapore

[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:**

**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](mailto:TRBLibrary@nas.edu) or 1 (202) 334-2989