TRB Snap Search: Pavement Design

TRB’s involvement in research on Pavement Design from 2020-2021

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

Recent Reports & Publications

- National Cooperative Highway Research Program (NCHRP)
  - Synthesis 546 - Use of Weigh-in-Motion Data for Pavement, Bridge, Weight Enforcement, and Freight Logistics Applications
  - Web-Only Document 288 - Standard Definitions for Common Types of Pavement Cracking

- Transportation Research Circulars
  - 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 - Designing and Accommodating Drainage in Pavement Design, Construction, and Maintenance
  - NCHRP IDEA 20-30/JDEA 229 - Lab Dielectric Measurement System for Asphalt Mixture Bulk Specific Gravity Determination
  - NCHRP IDEA 20-30/JDEA 224 - Development of an Automated and Rapid Conditioning and Testing Device for Cracking and Rutting

- Upcoming Projects
Reports from the National Academies Press on Pavement Design

- 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
- AKC10 – Construction Management
- AKC20 – Project Delivery Methods
- AKC30 – Quality Assurance Management
- AKD20 – Roadside Safety Design
- AKD30 – Low-Volume Roads
- AKP20 – Design and Rehabilitation of Concrete Pavements
- AKP30 – Design and Rehabilitation of Asphalt Pavements

Task Forces - Search for task force under committee here

CRP Panels
- Project Panels Related to Design

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.)

- **6th International Symposium on Highway Geometric Design***
  June 23, 2021
  online

- **International Symposium on Frontiers of Road and Airport Engineering***
  July 12, 2021
  online

- **Geospatial Data Acquisition Technologies in Design and Construction Summer Committee Meeting**
  July 27, 2021
  online

- **Bridging Transportation Researchers Online Conference***
  August 5, 2021
  online

- **Highway Capacity and Quality of Service**
  August 24, 2021

- **GeoChina 2021 International Conference**
  September 18, 2021
  NanChang, Jiangxi, China

- **12th International Conference on Concrete Pavements***
  September 27, 2021
  online

- **American Society of Civil Engineers (ASCE) Geo-Congress 2022***
  March 20, 2022
  Charlotte, NC
Webinars – View upcoming webinars, suggest a webinar or add registration information

Past Webinars

- Design

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 l (202) 334-2989