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**TRB Research**

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- Click here to view search results on TRB published research on Materials within the past year.

**Subject Webpage**

- [Materials Research at TRB](http://www.trb.org/InformationServices/Snap.aspx)

**Specialty Reports**

- [Critical Issues in Transportation 2019](http://www.trb.org/InformationServices/Snap.aspx)
- [COVID-19 Addendum to Critical Issues in Transportation](http://www.trb.org/InformationServices/Snap.aspx)
- [Racial Equity Addendum to Critical Issues in Transportation](http://www.trb.org/InformationServices/Snap.aspx)

**Recent Reports & Publications**

- [National Cooperative Highway Research Program (NCHRP)](http://www.trb.org/InformationServices/Snap.aspx)
  - [NCHRP 20-44(04)](http://www.trb.org/InformationServices/Snap.aspx) - Implementing Products from NCHRP Research on Adhesive Anchor Systems
  - [IDEA Report 220](http://www.trb.org/InformationServices/Snap.aspx) - Bridge Deck Sealer Monitor: Thermal Sealcheck
  - [Report 982](http://www.trb.org/InformationServices/Snap.aspx) - Relationships Between the Fatigue Properties of Asphalt Binders and the Fatigue Performance of Asphalt Mixtures
  - [Report 973](http://www.trb.org/InformationServices/Snap.aspx) - Long-Term Aging of Asphalt Mixtures for Performance Testing and Prediction: Phase III Results
  - [Report 967](http://www.trb.org/InformationServices/Snap.aspx) - Asphalt Binder Aging Methods to Accurately Reflect Mixture Aging
  - [Report 965](http://www.trb.org/InformationServices/Snap.aspx) - Mitigation of Weldment Cracking in Steel Highway Structures Due to the Galvanizing Process
  - [Report 961](http://www.trb.org/InformationServices/Snap.aspx) - Entrained Air-Void Systems for Durable Highway Concrete
  - [Report 960](http://www.trb.org/InformationServices/Snap.aspx) - Proposed AASHTO Practice and Tests for Process Control and Product Acceptance of Asphalt-Treated Cold Recycled Pavements
  - [Report 958](http://www.trb.org/InformationServices/Snap.aspx) - Improved Test Methods and Practices for Characterizing Steel Corrosion Potential of Earthen Materials
  - [Synthesis 574](http://www.trb.org/InformationServices/Snap.aspx) - Temporary Pavement Markings Placement and Removal Practices in Work Zones
  - [Synthesis 569](http://www.trb.org/InformationServices/Snap.aspx) - Practice and Performance of Cold In-Place Recycling and Cold Central Plant Recycling
  - [Synthesis 568](http://www.trb.org/InformationServices/Snap.aspx) - Portland Cement Concrete Pavement Joint Sealant Practices and Performance
  - [Synthesis 565](http://www.trb.org/InformationServices/Snap.aspx) - Maintenance and Surface Preparation Activities Prior to Pavement Preservation Treatments
  - [Web-Only Document 305](http://www.trb.org/InformationServices/Snap.aspx) - Validation of a Performance-Based Mix Design Method for Porous Friction Courses

- [Transportation Research E-Circulars](http://www.trb.org/InformationServices/Snap.aspx)
  - [E-Circular 274](http://www.trb.org/InformationServices/Snap.aspx) - Quality Assurance: Past, Present, and Future

**Current & Upcoming Projects**

- [Current Projects](http://www.trb.org/InformationServices/Snap.aspx)
  - [ACRP 02-91](http://www.trb.org/InformationServices/Snap.aspx) - Development of PFAS Source Differentiation Guidelines for Airports
  - [ACRP 02-93](http://www.trb.org/InformationServices/Snap.aspx) - Guidebook for PFAS Management at Airports

Updated 011/17/2021
• **ACRP 04-28** - Developing Alternative Aircraft Arresting Systems
• **NCHRP 01-61** - Evaluation of Bonded Concrete Overlays on Asphalt Pavements
• **NCHRP 09-57A** - Ruggedness of Laboratory Tests to Assess Cracking Resistance of Asphalt Mixtures
• **NCHRP 09-63** - A Calibrated and Validated National Performance-Related Specification for Emulsified Asphalt Binder
• **NCHRP 09-64** - Developing Laboratory Methods and Specifications to Test Tack Coat Materials
• **NCHRP 09-65** - Capturing Durability of High Recycled Binder Ratio (RBR) Asphalt Mixtures
• **NCHRP 09-66** - Performance Properties of Laboratory Produced Recycled Plastic Modified (RPM) Asphalt Binders and Mixtures
• **NCHRP 10-103** - Improving Guidance of AASHTO R 80/ASTM C 1778 for Alkali-Silica Reactivity (ASR) Potential and Mitigation
• **NCHRP 10-104** - Evaluating Use of Unconventional Fly Ash Sources in Highway Concrete
• **NCHRP 10-107** - Guide for Implementing Performance Specifications
• **NCHRP 12-117** - Guidelines for Corrosion Protection of Steel Bridges Using Duplex Coating Systems
• **NCHRP 12-120** - Stainless Steel Strands for Prestressed Concrete Bridge Elements
• **NCHRP 12-121** - Guidelines for the Design of Prestressed Concrete Bridge Girders Using FRP Auxiliary Reinforcement
• **NCHRP 18-18** - Design and Construction of Deck Bulb Tee Girder Bridges with UHPC
• **NCHRP 18-19** - Rating Concrete Water Permeability Based on Resistivity Measurements
• **NCHRP 18-20** - AASHTO LRFD Design, Installation, and Standard Practice of Testing for Cured In-Place Pipe Liners
• **NCHRP 20-07/Task 374** - Guidelines for Selecting Sign Sheeting Materials for AASHTO M268
• **NCHRP 22-40** - Update to AASHTO M 180-18 and Associated Highway Guardrail Specifications
• **NCHRP 24-44(19)** - Implementation of Proposed AASHTO Standards for Asphalt Binders and Mixtures
• **NCHRP 24-44(24)** - Pilot Test of Proposed Standard Practice for Recycling Agents in Asphalt Mixtures Incorporating RAP and RAS
• **NCHRP 24-44(26)** - Implementing Guide Specifications for the Construction of Chip Seals, Micro Surfacing, and Fog Seals
• **NCHRP 25-57** - Facilitating Balanced Mix Design Implementation
• **NCHRP IDEA 20-30/IDEA 233** - Development of an Innovative Bio-Mediated Self-Healing Concrete Technology
• **NCHRP IDEA 20-30/IDEA 229** - Lab Dielectric Measurement System for Asphalt Mixture Bulk Specific Gravity Determination
• **NCHRP IDEA 20-30/IDEA 228** - A Retroreflective Road Lane Marking Tape 1,000X Brighter Than Existing Technology
• **NCHRP IDEA 20-30/IDEA 219** - A Novel Durable, Healable and Conveniently Removable Pavement Marking Material Suitable for Both Permanent and Temporary Marking Uses
• **NCHRP IDEA 20-30/IDEA 218** - Development of a Fast and Cost Effective Asphalt Mixture Fatigue Test System
• **NCHRP IDEA 20-30/IDEA 210** - Material Characteristics of Cu-Based Superelastic Alloys for Applications in Bridge Columns to Improve Seismic Performance
• **NCHRP Synthesis 20-05/Topic 52-17** - Use of Recycling Agents in Asphalt Concrete Mixtures
• **NCHRP Synthesis 20-05/Topic 53-07** - Curing Practices for Concrete Pavements
• **NCHRP Synthesis 20-05/Topic 53-13** - Practices for Steel Bridge Fabrication and Erection Tolerances
• **TFRS 01** - Quality Assurance (QA) Aspects of Performance Related Specifications (PRS)

**Upcoming Projects**
• **NCHRP 09-67** - New Materials & Technology Deployment in Asphalt Pavement Structural Design
• **NCHRP 09-68** - Recycled Asphalt Materials: Binder Availability and Its Impact on Mix Performance
• **NCHRP 09-69** - Verifying Quantities of Materials Used in Asphalt Mixtures at Production Facilities
• **NCHRP 10-114** - Developing Performance and Safety Specifications for Rejuvenating Seals

**Reports from the National Academies Press on Materials**
• **Frontiers in Memristive Materials for Neuromorphic Processing Applications**
• **Data Analytics and What It Means to the Materials Community**
• **An Assessment of the Material Measurement Laboratory at the National Institute of Standards and Technology**

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- AKB10 – Innovative Highway Structures and Appurtenances
- AKB70 – Culverts, Buried Bridges and Soil Structure Interaction
- AKG20 – Soil and Rock Properties and Site Characterization
- AKG30 – Geo-Environmental and Climatic Impacts on Geomaterials
- AKG40 – Mechanics and Drainage of Saturated and Unsaturated Geomaterials
- AKG50 – Transportation Earthworks
- AKG80 – Geosynthetics
- AKG90 – Stabilization of Geomaterials and Recycled Materials
- AKM10 – Production and Use of Asphalt
- AKM20 – Binders for Flexible Pavement
- AKM30 – Asphalt Materials Selection and Mix Design
- AKM40 – Asphalt Mixture Evaluation and Performance
- AKM50 – Advanced Concrete Materials and Characterization
- AKM60 – Properties of Concrete and Constituent Materials
- AKM70 – Durability of Concrete
- AKM80 – Aggregates
- AKM90 – Polymer Concretes, Adhesives, and Sealers
- AKT30 – Pavement Maintenance

**Task Forces** - Search for task force under committee here

**CRP Panels**
- Project Panels Related to Materials

**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 Nanotechnology of Cement and Concrete**
  *May 23, 2022*
  *Irvine, CA*

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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

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