TRB Snap Search: Geotechnology

TRB's involvement in research on Geotechnology from 2019-2020

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](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 Geotechnology within the past year.

Subject Webpage

- Geotechnology Research at TRB

Recent Reports & Publications

- National Cooperative Highway Research Program (NCHRP)
  - IDEA Report 200 - Rapid Rehabilitation of Highway Slopes Using Seeded Microbial Bio-Cement
  - IDEA Report 192 - Application of Microbial Facilitated Stabilization for Sustainable Improvement of Expansive Pavement Subgrades
  - Report 933 - Evaluating Mechanical Properties of Earth Material During Intelligent Compaction
  - Report 915 - Relationship Between Erodibility and Properties of Soils
  - Report 903 - Geotechnical Asset Management for Transportation Agencies, Volume 1: Research Overview
  - Synthesis 555 - Estimating and Contracting Rock Slope Scaling Adjacent to Highways
  - Synthesis 547 - Advancements in Use of Geophysical Methods for Transportation Projects

- Transportation Research Circulars
  - E-Circular 260 - Managing Highway Rock Slope Scaling

Current & Upcoming Projects

- Current Projects
  - 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 12-114 - Guidance on Seismic Site Response Analysis with Pore Water Pressure Generation
  - NCHRP Synthesis 20-05/Topic 50-06 - Advances in Unstable Slope Instrumentation and Monitoring
  - NCHRP Synthesis 20-05/Topic 50-13 - Estimating and Contracting Rock Slope Scaling Adjacent to Highways
  - NCHRP 20-06/Topic 24-02 - Potential Liability Associated with Unstable Slope Management Programs
  - NCHRP IDEA 20-30/IDEA 221 - Development of In-Situ Cyclic Borehole Shear Soil Test Device

- Upcoming Projects
  - NCHRP 22-51 - Evaluation of MASH 2016 Soil Specifications and Procedures

Reports from the National Academies Press on Geotechnology

- Effectiveness and Impacts of Dust Control Measures for Owens Lake

Updated 06/12/2020
Committees & Panels

Sign-up to be a committee "Friend"

TRB Standing Committees – Search by transportation mode and committee topic

- AKB70 – Culverts, Buried Bridges and Soil Structure Interaction
- AKG00 – Geology and Geotechnical Engineering
- AKG10 – Engineering Geology
- 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
- AKG60 – Geotechnical Instrumentation and Modeling
- AKG70 – Foundations of Bridges and Other Structures
- AKG80 – Geosynthetics
- AKG90 – Stabilization of Geomaterials and Recycled Materials
- AKM80 – Aggregates

Task Forces - Search for task force under committee here

CRP Panels

- Project Panels Related to Geotechnology

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 Workshop at the Highway Geology Symposium*
September 21, 2020
Asheville, NC

GeoMEast International Conference 2020: "Sustainable Civil Infrastructures”*
November 8, 2020
Cairo, Egypt

Geosynthetics Conference*
February 21, 2021
Kansas City, MO

4th International Conference on Transportation Geotechnics*
May 23, 2021
Chicago, Illinois

GeoChina 2021 International Conference*
July 19, 2021
NanChang, Jiangxi, China

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

Past Webinars
- Geotechnology

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)

**Snap Searches** - Formerly called 'Overview Guides,' Snap Searches provide a succinct summary of activities in TRB on a given topic including: upcoming events such as conferences and webinars; names of Committees working on relevant issues; and a list of recent reports from TRB and The National Academies - [www.trb.org/InformationServices/Snap.aspx](http://www.trb.org/InformationServices/Snap.aspx)

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