

# **National Road Research Alliance Geotechnical Team September Meeting**

**Terry Beaudry  
Reclamation/Grading Engineer**

# Agenda

1. Welcome and Introductions
2. General NRRRA Update
3. Update Ongoing Research Projects
4. Review Gradations for Base Materials for *Permeability of Base Aggregate and Sand*
5. Update - *Improve Material Inputs into Mechanistic Design Properties for Reclaimed HMA Roadways*
6. Upcoming Relevant Geotech Events
7. Questions/Requests

# General NRRA Update

- Next RPO:
  - Tuesday September 15 - *"The Federal Highway Administration's Turner-Fairbank Highway Research Center and Pavement Research"* by Cheryl Richter, Ph.D., P.E. - FHWA.
- Upcoming Pavement Workshop Activities:

**ICT Team Meeting - Extended Project Updates**

**Wednesday, September 30 | 10:30 - 11:30 a.m.**

[Register for this event](#)

**Speakers:** Soheil Nazarian, Ph.D. (UTEP) and George Chang, Ph.D. (The Transtec Group) - [Evaluation of Levels 3-4 Intelligent Compaction Measurement Values \(ICMV\) for Soils Subgrade and Aggregate Subbase Compaction](#)

# Update Research Projects

| Project  | Team         | Task 1 | Task 2        | Task 3      | Task 4      | Task 5      | Task 6 | Task 7        | Task 8      | Task 9 & 10 |
|--|--------------|--------|---------------|-------------|-------------|-------------|--------|---------------|-------------|-------------|
| Determining Pavement Design Criteria for Recycled Aggregate Base and Large Stone Subbase [90%]         | MSU/ISU /UWM |        |               |             |             |             |        | TAP reviewing | In progress |             |
| Mechanistic Load Restriction Decision Platform for Pavement Systems Prone to Moisture Variations [65%] | UNH          |        |               |             | In progress | In progress |        |               |             |             |
| Environmental Impacts on the Performance of Pavement Foundation Layers [45%]                           | MSU          |        | TAP reviewing | In progress |             |             |        |               |             |             |
| Permeability of Base Aggregate and Sand [50%]  | UWM          |        |               | In progress |             |             |        |               |             |             |
| Improve material inputs into mechanistic design properties for reclaimed HMA Roadways [40%]            | MSU/ISU      |        | In progress   | In progress |             |             |        |               |             |             |

# Update Research Projects

Review Gradations for Base Materials for  
*Permeability of Base Aggregate and Sand*

# Update Research Projects

*Improve Material Inputs into Mechanistic Design Properties  
for Reclaimed HMA Roadways*

# Upcoming Relevant Geotech Events

- TRB Webinar: *Enhancing Pavement Foundation Resilience through Moisture Measurement*

Thursday, September 17, 2020 from 2:00  
to 3:30 PM Eastern

TRB Standing Committee on Mechanics and Drainage of Saturated and Unsaturated Geomaterials.

## **Agenda/Presenters**

1. Cost saving opportunities from more effective moisture measurement: John Siekmeier, *Minnesota Department of Transportation*
2. Spatial and seasonal moisture variation: Soheil Nazarian, *University of Texas at El Paso*
3. Experiences with Moisture Monitoring Techniques, Eyoab Zegeye Teshale, *Minnesota Department of Transportation*
4. Question and answer session: Moderated by John Siekmeier, *Minnesota Department of Transportation*

The first 60 minutes of the webinar will be for presentations and the final 30 minutes will be reserved for audience questions.

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7. **Questions/Requests**