

National Road Research Alliance Geotechnical Team January Meeting

**Terry Beaudry
Reclamation/Grading Engineer**

Agenda

1. Welcome and Introductions
2. General NRRRA Update
3. Update Ongoing Research Projects
4. Demo PaveSafe Toolkit (Flooded Pavements)
5. Questions/Requests

General NRRA Update

- No RPO in January due to TRB 2021
- NRRA Geotech Workshop TRB 2021 (Friday Jan 22, 2021, 2- 5PM ET):
 - *Climatic Impacts on Performance of Road Foundation (AKG30)*
 - B. Worel, H. Ceylan, B. Cetin, M. Ghayoomi, E. Dave, and R. Velasquez



Climatic Impacts on Performance of Road Foundation

Prof. Bora Cetin Ph.D. - *MSU*

Prof. Halil Ceylan Ph.D. - *ISU*

Prof. Eshan Dave Ph.D. - *UNH*

Prof. Majid Ghayoomi Ph.D. P.E. - *UNH*

Raul Velasquez Ph.D. P.E. - *MnDOT*

Ben Worel P.E. - *MnDOT*

NRRA Geotechnical Simulative Workshop

TRB Committee Geo-Environmental and Climatic Impacts on Geomaterials (AKG30)

Friday January 22, 2021



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 [95%]	MSU/ISU /UWM								TAP reviewing	In progress
Mechanistic Load Restriction Decision Platform for Pavement Systems Prone to Moisture Variations [85%]	UNH						In progress	In progress		
Environmental Impacts on the Performance of Pavement Foundation Layers [75%]	MSU			In progress	In progress	Hatched area				
Permeability of Base Aggregate and Sand [75%]	UWM			In progress	In progress					
Improve material inputs into mechanistic design properties for reclaimed HMA Roadways [70%]	MSU/ISU				In progress					
Continuous Moisture Measurement during Pavement Foundation Construction [5%]	UTEP	Contract Kick-off meeting					Hatched area			

Mechanistic Load Restriction Decision Platform for Pavement Systems Prone to Moisture Variations

Demo PaveSafe Toolkit
Flooded Pavements- *UNH*

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