

Sub-Committee on Research

Our Mission: Successful development of problem statements

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Short- and Long-Term Research Needs		
(1) Materials Standards research:	(2) Equipment research:	(3) Review Research Roadmaps:
Review pavement preservation related research that has been completed within the last 5 years.	Review needs and enhancements for construction equipment and pavement condition assessment vehicles.	Review TSP Research Roadmap on the NCPP, Minn Road, FHWA, and NCAT.
Notes:	Notes:	Notes:
We need can't have old equipment in new tests. The material standards need to have the most up to date equipment.	Looking at a synthesis of what equipment is out there now. From there we can find holes for research needs	Goals are to have this working group review the Roadmaps and become SMEs on what each says and keep the group updated on their content and if there are any weak areas.
Emulsion specs are the same they have been for ~40 years. Eg. saybolt, penetration. There are not really any performance tests.	Another equipment need is performance lab testing equipment	

What is the pain points in testing. Is there a better way?	Most lab equipment was developed by Benedict. These are not automatic and could use updating. Wet track abrasion tester is not very reproducible.	
The temp of the road matters when shotting emulsion. The viscosity should be tested within 24 hours, but that doesn't always happen. <ul style="list-style-type: none"> • What are other industries using to test their products? Like mustard etc. • Make sure to test both modified and unmodified material when we write research statements. 	Look at a top down approach for equipment. If we have a new piece of equipment. Ask manufacturers to support research on newer equipment.	
9-63 project? This is residue properties project. We need to draw from this project once it's finalized.	We needs the specs to have the most up to date equipment. How can we do this?	
We need to know what tests can measure performance.	Using lidar to distributor trucks? This could save the contractor.	
Cracking is reflected through the pavement from micro projects correctly.	Torsion test for chip seals. This is a field tests. There needs to be a test on micro that can be done the day of paving.	
Why materials are performing or not performing rheologically. Look at long term performance as well. The bleeding after one year.		

Other Notes

- Current research project is to find a list of every emulsion test.
- How to we want to focus our problem statements? We need to do broad based approach to these statements. The problem can be both materials and equipment related.
- ACTION Item: Schedule mid meeting web call