

Merging TRB Research Needs Statements and TTCC/NCC Research Needs

TTCC/NCC Meeting
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On behalf of TRB AFNOO Committees



Outline

- TRB Committees
- Why merge?
- Some research needs identified by TRB committees
- What do the states need?



TRB Committees

- AFN00 – Concrete Materials (Jamshid Armaghani)
- AFN10 – Basic Research and Emerging Technologies Related to Concrete (Paul Tikalsky)
- AFN15T – Task Force on Nanotechnology-Based Concrete Materials (Bjorn Birgisson)
- AFN20 – Properties of Concrete (Tara Cavalline)
- AFN30 – Durability of Concrete (Tyson Rupnow)
- AFN40 – Concrete Materials and Placemer⁺ Techniques (Jason Weiss)



Why Merge?

- Shrinking pot of monies to do work
- Technology changing at an ever faster pace
- TRB serves DOT's interests
- Difficulty getting research needs statements out of AASHTO sub-committee



Proposed RNS

- AFN₁₀
 - To be combined with several others
 - Titled: Effectiveness of Powdered Limestone Materials in Blended Cements
 - Test PLC's with other SCMs for fresh and hardened properties including durability characteristics
 - 36 months estimated
 - \$450,000



Proposed RNS

- AFN₃₀
 - How to develop freeze-thaw durable concrete without air entrainment
 - Entrained Air Void System in Concrete Structures and Pavements – to be updated



States Needs Discussion

- What do states see as the most important need(s)?
- What do industry partners see as the most important need(s)?
- Other discussion

