

NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM

FHWA Mixtures and Construction
Expert Task Group Meeting
September 2016



FY 2017 PROJECTS

- ⦿ **Project 9-61: Short and Long-term Aging Methods to Accurately Reflect Binder Aging in Different Asphalt Applications**
- ⦿ **Project 9-62: Quality Assurance and Specifications for In-Place Recycled Pavements Constructed Using Asphalt-Based Recycling Agents**



RECENTLY AWARDED PROJECTS

9-60: The Impacts On Pavement Performance From Changes In Asphalt Production

- ◎ Propose changes to the current PG asphalt binder specifications and test methods to remedy shortcomings related to incidents of premature failure of asphalt pavements

Western Research Institute (January 2019)



RECENTLY AWARDED PROJECTS

20-07/Task 391:Energy Criteria for Maintaining Fully Animated Particles of Loose Asphalt in AASHTO T 209 Testing

- ⊙ Establish criteria for sample mechanical shaking in AASHTO T 209 that assures measurement of true G_{mm} values.

*National Center for Asphalt Technology
(July 2017)*



PROJECTS IN NEGOTIATION

20-07/Task 400: Effect of Elevation on Rolling Thin Film Oven Aging of Asphalt Binders

- ① Develop a standard method for adjusting RTFO aging times based on laboratory elevation.



PROJECTS IN NEGOTIATION

20-44(01): Workshop on Increasing WMA Implementation by Leveraging the State-Of-The-Knowledge

- ◎ Identify the barriers to implementation of WMA specifications by the state DOTs.
- ◎ Establish performance measures for WMA implementation nationwide.



PROJECTS NEARING COMPLETION

9-56: Identifying Influences on and Minimizing the Variability of Ignition Furnace Correction Factors

- For mixes without lime, conducting T 308 at 800° F reduces correction factors.
- Additional work funded to (1) conduct ruggedness test of T 308 and (2) determine the variability of correction factors for asphalt mixes containing significant RAP and RAS contents.



PROJECTS NEARING COMPLETION

- ◎ 9-49A: Performance of WMA Technologies: Stage II--Long-Term Field Performance
 - Draft final report in review.
 - Over the long term—4 to 10 years—WMA and HMA perform equivalently.



RECENT PUBLICATIONS

- ◎ **NCHRP Research Results Digest 399, Field Validation of Laboratory Tests to Assess Cracking Resistance of Asphalt Mixtures: An Experimental Design**
- ◎ **NCHRP Synthesis 495, Use of Reclaimed Asphalt Pavement and Recycled Asphalt Shingles in Asphalt Mixtures**



HTTP://WWW.TRB.ORG/NCHRP

