

NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM

**FHWA Asphalt Mixture
Expert Task Group Meeting
May 2017**



FY 2018 PROJECT

- ◎ **Project 9-57A: Field Validation of Laboratory Tests to Assess Cracking Resistance of Asphalt Mixtures**



RECENTLY AWARDED PROJECTS

9-52A: Short-Term Laboratory Conditioning of Asphalt Mixtures: Field Verification

- ◎ Verify short-term laboratory conditioning procedure for asphalt mixtures developed in NCHRP Project 9-52 with field data obtained over an extended service period.

Texas A&M Transportation Institute (October 2018)



RECENTLY AWARDED PROJECTS

9-61: Short and Long-Term Aging Methods to Accurately Reflect Binder Aging in Different Asphalt Applications

- ① Develop practical laboratory aging methods to accurately simulate the short-term (from production to placement) and long-term (in-service) aging of asphalt binders.

*Advanced Asphalt Technologies, LLC
(September 2019)*



RECENTLY AWARDED PROJECTS

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

- ① Develop a standard method for adjusting RTFO conditioning times based on laboratory elevation above sea level.

*Advanced Asphalt Technologies, LLC
(November 2017)*



RECENTLY AWARDED PROJECTS

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.

*Myers McCarthy Consulting Engineers, LLC
(January 2018)*



PROJECTS IN NEGOTIATION

- ◎ **9-62: Quality Assurance and Specifications for In-Place Recycled Pavements Constructed Using Asphalt-Based Recycling Agents**
- ◎ **20-07/Task 406: Development of a Framework for Balanced Asphalt Mixture Design**



PROJECTS IN NEGOTIATION

- © **9-56A: Identifying Influences on and Minimizing the Variability of Ignition Furnace Correction Factors—Phase II**



PROJECTS NEARING COMPLETION

9-54: Long-Term Aging of Asphalt Mixtures for Performance Testing and Prediction

- ⦿ Laboratory conditioning protocol based on empirical observations from the tested field sections.
- ⦿ Conditioning protocol proposes an aging temperature no greater than 95° C.



RECENT PUBLICATIONS

- ◎ NCHRP Research Report 837,
Performance-Related Specifications for
Emulsified Asphaltic Binders Used in
Preservation Surface Treatments
- ◎ NCHRP Synthesis 495: Use of Reclaimed
Asphalt Pavement and Recycled Asphalt
Shingles in Asphalt Mixtures



SPRING 2017 PUBLICATIONS

- © NCHRP Research Report 847, Variability of Ignition Furnace Correction Factors
- © NCHRP Research Report 843, Long-Term Field Performance of Warm Mix Asphalt Technologies



WE NEED PROBLEM STATEMENTS!

- ◎ *Problem Statements for FY 2019 NCHRP due by 15 October 2017—may be submitted by State DOTs, AASHTO Committees, FHWA.*
- ◎ *Project 20-07 Problem Statements accepted from SCOH Subcommittees at any time—two selections per year.*



HTTP://WWW.TRB.ORG/NCHRP

