

NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM

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



FY 2018 PROJECT

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

- ◎ **Panel meets in November to prepare RFP**



FY 2018 PROJECT

Project 20-07/Task 412: Adjustments to the Superpave Volumetric Mixture Design Procedure for Selecting Optimum Asphalt Content

- ◎ **Panel meets in October to select contractor**



RECENTLY AWARDED PROJECTS

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

- ⊙ Determine variability of asphalt and aggregate correction factors for mixes containing significant RAP content.

*National Center for Asphalt Technology
(November 2018)*



RECENTLY AWARDED PROJECTS

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

- ◎ 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

9-62: Rapid Tests and Specifications for Construction of Asphalt-Treated Cold Recycled Pavements

- ◎ Develop time-critical tests for asphalt-treated CIR, FDR, and CCPR materials for process control and product acceptance that provides a basis for determining when the pavement can be opened to traffic and surfaced.

Virginia Transportation Research Council (June 2020)



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

20-07/Task 406: Development of a Framework for Balanced Asphalt Mixture Design

- ① Develop a framework that addresses alternate approaches to devise and implement balanced mix design procedures incorporating performance testing and criteria.

*National Center for Asphalt Technology
(May 2018)*



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)*



RECENT PUBLICATIONS

- ◎ NCHRP Research Report 847, Variability of Ignition Furnace Correction Factors
- ◎ NCHRP Research Report 843, Long-Term Field Performance of Warm Mix Asphalt Technologies
- ◎ NCHRP Research Report 856, Specifying and Measuring Asphalt Pavement Density to Ensure Pavement Performance



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

