

ISAP 2014 SUNDAY WORKSHOP (W1)

State-of-the-art Characterization of Asphalt Binders and Emulsions

Workshop Description

The workshop will cover recent advancements in binder and emulsion characterization. The workshop will include discussion of new test methods to target critical distresses and workability, relationships to mixture performance, and how the methods are envisioned to be incorporated into standard specifications for asphalt binders used in asphalt concrete and asphalt emulsions used in pavement surface treatments. Specific topics to be covered are listed below:

1. Binder coating and mastic viscosity testing
2. Fresh emulsion testing and residue recovery
3. Characterizing rutting resistance using the Multiple Stress Creep and Recovery (MSCR) test
4. Characterizing damage resistance using the Linear Amplitude Sweep (LAS) test
5. Bitumen Bond Strength (BBS) testing for adhesion and moisture damage characterization
6. Low temperature cracking characterization using the Single Edge Notch Bending (SENB) and glass transition temperature testing

Organizers

Prof. Hussain Bahia, Univ. of Wisconsin at Madison

Prof. Cassie Hintz, North Carolina State University

Time Period

8 am – 12 pm, Sunday, June 1, 2014