



PAVEMENT PERFORMANCE PREDICTION SYMPOSIUM 2008

University of Wyoming Washakie Center Rendezvous Room, Laramie, Wyoming, July 16-18

Sponsored by **Federal Highway Administration** – Organized by **Western Research Institute**



Warm Mix and Recycled Asphalt Pavements

Wednesday, July 16

1:30-1:40 pm	Welcome and Introduction—Ernie Bastian FHWA
RAP Session 1	Moderator: Fred Turner
1:40-2:30	Sustaining our Highways: A National Perspective on Reclaimed Asphalt Pavement (RAP) Usage and Best Practices for Recycled Asphalt Pavements— Audrey Copeland FHWA
2:30-3:20	Mix Design for HMA Recycling— Rebecca McDaniel North Central Superpave Center
3:20-3:40	Break
3:40-4:30	Evaluating RAP Binder Properties— Hussain Bahia University of Wisconsin
4:30-5:00	Moderator Discussion and Research Needs

Thursday, July 17

RAP Session 2	Moderator: Troy Pauli
8:00-9:20 am	Degree of Mixing of RAP and Virgin Binder— Ray Bonaquist AAT
9:20-10:10	Wetting/Compatibility— Troy Pauli WRI
10:10-10:30	Break
10:30-11:20	Material Characterization— Jo Daniel University of New Hampshire
11:20-11:50	Moderator Discussion and Research Needs
11:50-1:00 pm	Lunch
WMA Session 3	Moderator: Mike Farrar
1:00-1:50 pm	Aging of Warm Mix (+RAP)— Gerald Reinke MTE Services, Inc.
1:50-2:40	Mix Design Process— Ray Bonaquist AAT
2:40-3:30	Constructability— Matthew Corrigan FHWA
3:30-3:50	Break
3:50-4:35	Moisture Susceptibility of WMA— Andrea Kvasnak NCAT
4:35-5:00	Moderator Discussion and Research Needs

Friday, July 18

WMA Session 4	Moderator: Mike Harnsberger
8:00-8:40 am	Binder Testing with Wax Addition— Gaylon Baumgardner Paragon Technical Services, Inc.
8:40-9:20	Emulsion Based WMA using Evotherm— Koichi Takamura BASF
9:20-10:00	Warm Mix Asphalt Pavements based on the Fischer-Tropsch Wax Sasobit— Thorsten Butz Sasol Wax
10:00-10:15	Break
10:15-10:55	(1) Optimizing the Use of RAP in Thin Lift HMA Mixtures Using Warm Mix Asphalt Technology, and (2) Evaluation of the Dosage Effects of Advera WMA Technology on HMA Volumetrics and Workability— Walaa S. Mogawer University of Massachusetts Dartmouth
10:55-11:35	Warm Mix Technology-Addressing Moisture Sensitivity— Prem Naidoo Asphalt & Wax Innovations/Akzo Nobel Surface Chemistry, LLC
11:35-12:00	Moderator Discussion and Research Ideas