

2014 P3

Pavement Performance Prediction Symposium

Organized by Western Research Institute
Hilton Garden Inn & University of Wyoming Conference Center
July 17, 2014 — Laramie, Wyoming

Innovations for Predicting Pavement Performance — Measurements and Models

8:00-8:10 am Welcome and Opening Remarks

Session 1 Moderator: **Ron Glaser** *WRI*

8:10-8:45 Performance Control of Bituminous Mixtures with a High RAP Content
Frederic Delfosse *Eurovia*

8:45-9:20 A Simple Test to Determine Workability of Warm Mix Asphalt – A Progress Report
Raj Dongre *Dongre Technical Services*

9:20-9:55 Assessment of Parameters for Asphalt Cracking Using Linear Visco-Elastic Properties
Geoffrey Rowe *Abatech, Inc.*

9:55-10:15 Break

10:15-10:50 New Techniques in Binder Property Measurement
Michael Hauck *ASPRS*

10:50-11:25 Performance Prediction of Materials for Pavement
Emmanuel Chailleux *IFFSTAR*

11:25-12:00 Progress Toward the Development of the Chip Adherence Stability Test
Will Grimes *Western Research Institute*

12:00-1:00 pm Lunch

Session 2 Moderator: **Alec Cookman** *WRI*

1:00-1:35 pm Opportunities for Incorporating Performance Evaluation into Mix Design, Construction, and Acceptance
Andrew Hanz *MTE Services, Inc.*

1:35-2:10 Bitumen Chemomechanics Related to Pavement Performance
Troy Pauli *Western Research Institute*

2:10-2:45 Constitutive Modeling of Oxidative Aging Effects on Damage Response of Asphalt Concrete
Eisa Rahmani *Texas A&M University*

2:45-3:05 Break

3:05-3:40 Binder Oxidation and Pavement Durability
Ron Glaser *Western Research Institute*

3:40-4:15 Prediction of the Complex Shear Modulus of Asphalt Binders with Oxidative Aging
Haifang Wen *Washington Center for Asphalt Technology (WCAT)*

4:15-4:50 Evolution of Oxidation in Pavement: Crossover Modulus Kinetics
Mike Farrar *Western Research Institute*