

2011 PAVEMENT PERFORMANCE PREDICTION SYMPOSIUM



Sponsored by **Federal Highway Administration** — Organized by **Western Research Institute**
Hilton Garden Inn & University of Wyoming Conference Center — July 14, 2011, Laramie, Wyoming

The Effects of Asphalt Binder, Mix Design & Construction on Pavement Durability

8:00-8:30 am	Registration
8:30-8:40	Welcome and Introduction— Steve Salmans and Jean-Pascal Planche <i>WRI</i>
Session 1	Moderator— Jack Youtcheff <i>FHWA</i>
8:40-9:15 am	Life Cycle Environmental Impacts on Asphalt Pavements of Deterioration and Rehabilitation Ting Wang and John Harvey <i>University of California-Davis</i>
9:15-9:50	Selection of Moisture Damage Resistant Materials for Asphalt Mixtures Using the Bitumen Bond Strength Test and Sessile Drop Method Hussain Bahia <i>University of Wisconsin-Madison</i>
9:50-10:10	Break
10:10-10:45	Modeling Durability of Pavements: Some Food for Thought Niki Kringos <i>KTH</i>
10:45-11:20	A Simple Method for Evaluation of Asphalt Pavement Embrittlement Adrian Andriescu <i>SES Group & Associates, LLC</i>
11:20-11:55	Integrating Pavement Preservation Performance Prediction into Design: A Beginning with Top Down Cracking Nelson Gibson <i>FHWA</i>
11:55-1:00 pm	Lunch
Session 2	Moderator— Mike Harnsberger <i>WRI</i>
1:00-1:35	Viewing Cracking through “Black Space” Binoculars Gayle King <i>GHK, Inc.</i>
1:35-2:10	Performance of Thin, Highly Modified Pavements on the National Center for Asphalt Technology Test Track Robert Klutz <i>Kraton Polymers</i>
2:10-2:45	Effect of Geo-synthetic Materials in RAP on Mix Performance Properties Nam Tran <i>NCAT</i>
2:45-3:05	Break
3:05-3:40	Predicting Oxidative Age Hardening in Asphalt Pavement with Time and Depth: A First Approximation Mike Farrar <i>Western Research Institute</i>
3:40-4:15	Accelerated Pavement Weathering System - The Missing Link Laurand Lewandowski <i>PRI Asphalt Technologies, Inc.</i>