



2017 Annual Meeting Program
March 19-22, 2017
The Island Hotel
Newport Beach, California

Sunday, March 19, 2017

2:00-5:00pm

Leading Edge Workshop, *Practical Implementation of Asphalt Mixture Performance Tests*

Audrey Copeland, presiding

Application of Intermediate Temperature Semi-Circular Bending (SCB) Test Results to Design Mixtures With Improved Load Associated Cracking Resistance

R. Bonaquist, B. Paye, C. Johnson

5:30-7:00pm

Student Poster Session

5:30-7:00pm

Icebreaker Reception

Monday, March 20, 2017

6:30-8:00am

Newer Members Breakfast

8:00-9:30am

Business Meeting

9:45-11:30am

First Technical Session, *Pavement Preservation*

Geoff Rowe, presiding

Reflective Cracking Relief Interlayer for Asphalt Pavement Rehabilitation: From Development to Demonstration

J. Habbouche, E. Hajj, N. Morian, P. Sebaaly, M. Piratheepan

Optimizing Water Content in Cold Recycled Foamed Asphalt Mixtures

W. Ma, R. West, N. Tran, N. Moore

Application of Laboratory Asphalt Cracking Tests to Cold In-Place Recycled (CIR) Mixtures

E. Zegeye, D. Rettner, A. Hartleib, D. Kriesel

Using Electrical Resistance to Evaluate the Chip Seal Curing Process

[BY TITLE ONLY]

M. Montoya, J. Weiss, J. Haddock

11:30am-1:00pm

Authors and Presenters Luncheon

1:00-2:15pm

Second Technical Session, *Asphalt Mixture Testing*

Audrey Copeland, presiding

Improving Accuracy of Asphalt Content Determination by Ignition Test

M. Rodezno, R. Brown

Evaluation of Various Hamburg Wheel-Tracking Devices and AASHTO T 324 Specification for Rutting Testing of Asphalt Mixtures

L. Mohammad, M. Elseifi, W. Cao, A. Raghavendra, M. Ye

2:30-5:00pm

AAPT/ISAP International Forum, *Hot Recycling: State of the Art and New Challenges*

Gabriele Tebaldi, presiding

Martin Hugener, EMPA (Switzerland)

Shigeru Shimenu, East Nippon Expressway (Japan)

Luis Guillermo Loria Salazar, National Laboratory of Materials and Structural Models of Costa Rica

Shih Hsien Yang, National Cheng Kung University (Taiwan)

Paul Marsac, IFSTTAR (France)

Tuesday, March 21, 2017

6:30-8:00am

Past Presidents' Breakfast

8:00-11:45am

Third Technical Session, *Asphalt Binder*

Gaylon Baumgardner, presiding

Simulation and Validation of Asphalt Foaming Process for Virtual Experiments and Optimization of WMA Production

S. Zhu, F. Chen, H. Yin

Effect of Aging on Asphalt Binders in the State of Qatar: A Case Study

O. Sirin, D.K. Paul, E. Kassem, MD Ohiduzzaman

Non-Isothermal Kinetic Analysis of Reversible Aging in Asphalt Cements

A. Rigg, A. Duff, Y. Nie, M. Somuah, N. Tetteh, S. Hesp

Comparison of Asphalt Binder and Mixture Cracking Parameters

R. Rahbar-Rastegar, J. Sias Daniel, G. Reinke

Effect of Cooling Medium on Low Temperature Properties of Asphalt Binder

C. Riccardi, A. Falchetto, D. Wang, M. Wistuba

1:15-2:00pm

Fourth Technical Session, *Asphalt Mixture*

Adam Hand, Bill Buttlar, presiding

Improving Cohesiveness of Porous Friction Course (PFC) Mixtures

D. Watson

2:00-5:00pm

Symposium, *Rubberized Asphalt Use is Up: Developments, Opportunities, and Challenges*

Adam Hand, Bill Buttlar, presiding

6:00-7:00pm

Social Hour

7:00-9:30pm

Annual Banquet

9:30-11:30pm

Post-Banquet Reception

Wednesday, March 22, 2017

8:00-11:45am

Fifth Technical Session, *Recycling*

Brian Prowell, presiding

Characterizing the Long-Term Rejuvenating Effectiveness of Recycling Agents on Asphalt Blends and Mixtures with High RAP and RAS Contents

F. Yin, F. Kaseer, E. Arambula Mercado, A. Epps Martin

Performance Evaluation of Plant-Produced Warm Mix Asphalts Containing RAP and RAS

A. Arshadi, R. Steger, R. Ghabchi, M. Zaman, K. Hobson, S. Commuri

Impact of High Recycled Mixes on HMA Overlay Crack Development Rate

I. Al-Qadi, S. Wu, D. Lippert, H. Ozer, M. Barry, F. Safi

Comprehensive Evaluation of Warm Mix Asphalt with RAP: Field and Laboratory Experiments

Z. Xie, N. Tran, A. Taylor, G. Julian, R. West, J. Welch

Assessing the Effects of RAP, RAS, and Warm-Mix Technologies on Fatigue Performance of Asphalt Mixtures and Pavements Using Viscoelastic Continuum Damage Approach

W. Cao, L. Mohammad, M. Elseifi

Development of a New Methodology to Effectively Predict the Fracture Properties of RAP Mixtures

[BY TITLE ONLY]

Y. Yan, R. Roque, D. Hernando, G. Lopp

1:15-5:00pm

Sixth Technical Session, *Cracking*

Geoff Rowe, presiding

Alternative Cracking Methodology for Assessing Cracking Resistance of Hot Mix Asphalt Mixtures with Overlay Tester

V. Garcia, A. Miramontes, J. Garibay, G. Carrasco, R. Lee, I. Abdallah, S. Nazarian

Development of an IDEAL Cracking Test for Asphalt Mix Design and QC/QA

F. Zhou, S. Im, L. Sun, T. Scullion

Relationships between Simple Asphalt Mixture Cracking Tests Using N_{design} Specimens and Fatigue Cracking at FHWA's Accelerated Loading Facility

R. West

Evaluation of Asphalt Mixture Cracking Performance Using Monotonic Direct Tension Test on the AMPT

S. Li

Comprehensive Evaluation of Low Temperature Cracking Fracture Indices for Asphalt Mixtures

Y. Zhu, E. Dave, R. Rahbar-Rastegar, J. Daniel, A. Zofka

Prediction of Phase Angles from Dynamic Modulus Data and Implications on Cracking Performance Evaluation

[BY TITLE ONLY]

M. Oshone, E. Dave, J. Sias Daniel, G. Rowe

Fatigue Investigation on Asphalt Mixture Layers' Interface

[BY TITLE ONLY]

I. Isailovic, A. Falchetto, M. Wistuba