



2018 DRAFT Annual Meeting Program

March 18-21, 2018

Hyatt Jacksonville Riverfront

Jacksonville, Florida

Sunday, March 18, 2018

2:00-5:00pm

Leading Edge Workshop: Speed of Construction

Adam Hand, presiding

5:30-7:00pm

Student Poster Session

Nima Roohi Sefidmazgi, presiding

5:30-7:00pm

Icebreaker Reception

Monday, March 19, 2018

6:30-8:00am

Newer Members Breakfast

Jenna Bowers, presiding

8:00-10:00am

Business Meeting

Gaylon Baumgardner, presiding

10:15-11:30am

First Technical Session

Randy West, presiding

Increasing Asphalt Pavement Density: A Field Project

Miguel A. Montoya, M. Reza Pouranian, John E. Haddock

Evaluation of Recycled and Warm Mix Asphalts Using Laboratory and Full-Scale Cracking Tests

Xinjun Li, Adrian Andriescu, Regis Luis Carvalho, Jack Youtcheff

11:30am-1:00pm

Authors and Presenters Luncheon

1:00-2:15pm

Second Technical Session

Phil Blankenship, presiding

Low Emission2 Asphalt Pavement

Marinus Huurman, Jian Qiu, Ernst Demmink, Bastiaan Bruin

Effects of Modifiers and Binder Properties on the Performance of Asphalt Mixtures in the Hamburg Wheel-Tracking Device Test

Quan Lv, Bahia Hussain, Weidong Huang, Naipeng Tang, Mao Zheng

2:30-5:00pm

AAPT/ISAP International Forum: Warm Mix Asphalt Technology

Gabriele Tebaldi and Jean-Pascal Planche, presiding

Invited Speakers providing an international perspective on warm mix asphalt technology.

OPTIONAL Monday Night Event: Intuition Ale Works

Tuesday, March 20, 2018

6:00-7:00am

Jacksonville Pavement Inspection Tour

TBD

Past Presidents Council

Randy West, presiding

8:00-11:30am

Third Technical Session

Adam Hand, presiding

Joint Sealant Performance on Asphalt Mixture Longitudinal Joints

Sharlan R. Montgomery, John E. Haddock

Long-term Field Performance of Flexible Pavements Using Warm Mix Asphalt Technologies

Shihui Shen, Weiguang Zhang, Shenghua Wu, Louay N. Mohammad, Balasingam Muhunthan

A System for Real-Time Measurement of Moisture in Aggregate Mixes During Asphalt Production

Linus Dep, Cheng Thao, Stacy Glidden, David Porter

Nondestructive Full Coverage Asphalt Stripping Detection Using 3D Radar

Kyle Hoegh, Shongtao Dai

Assessment of Permanent Deformation Properties of In-Place Recycled Pavement Mixtures

Benjamin Bowers

1:00-1:40pm

Fourth Technical Session

Andrew Braham, presiding

Limiting Strain Distribution Criteria for Perpetual Pavement Design Using AASHTOWare Pavement ME Design

Alfredo Javier Castro, Nam Tran, Fan Gu, David Timm, Christopher Wagner

2:00-5:00pm

Symposium: Pavement Preservation

Andrew Braham and Phil Blankenship, presiding

Developing Life-Extending Benefit Curves for Asphalt Pavements with Preservation Treatments

Adriana Vargas-Nordbeck

Unique Aspects of Flexible Pavement Design and Asset Management for P3 Design Build Finance Operate Projects

Art Johnston

Invited Speakers on Pavement Preservation

6:00-7:00pm

Social Hour

7:00-9:30pm

Annual Banquet

9:30-11:30pm

Post-Banquet Social

Wednesday, March 21, 2018

8:00-11:45am

Fifth Technical Session

Audrey Copeland, presiding

Influence of Asphalt Binder Formulation and Source on the Performances of Binders with the Same Continuous PG

Walaa S. Mogawer, Alexander J. Austerman, Kevin D. Stuart, Mihai Marasteanu, Munir Nazzal

Assessment of Various Approaches to Determining Binder Bending Beam Rheometer Low Temperature Specification Parameters from Dynamic Shear Rheometer Test

Mirkat Oshone, Eshan V. Dave, Jo Sias Daniel, Geoffrey M. Rowe

A Direct Shear Approach to Assess the Interface Bonding Performance

Ramendra Das, Louay Mohammad, Mostafa Elseifi, Wei Cao, Samuel Cooper, Jr.

Impact of Various Crumb Rubber Modifications on Asphalt Binder and Mixture Properties

Sreelatha Balamurugan, Louay Mohammad, William Daly, Ioan Negulescu, Cooper, III Samuel, Cooper, Jr Samuel, Gaylon Baumgardner

Fluorescence Microscopy for Determining Diffusion Coefficient between Virgin and Aged Asphalt Binders

Yongjie Ding, Baoshan Huang, Xiang Shu

Climate-, Depth-, and Time-Based Laboratory Aging Procedure for Asphalt Mixtures

Michael D. Elwardany, Farhad Yousefi Rad, Cassie Castorena, Y. Richard Kim

1:30-5:00pm

Sixth Technical Session

Geoff Rowe, presiding

Practical Tools for Optimizing Recycled Materials Content and Recycling Agent Dosage for Improved Short- and Long-Term Performance of Rejuvenated Binder Blends and Mixtures

Fawaz Kaseer, Lorena Garcia Cucalon, Edith Arámbula-Mercado, Amy Epps Martin, Jon Epps

Modern, Recycled SMA Mixtures on the Illinois Tollway and Preliminary Performance-based Mix Design Approach

He Wang, William G Buttlar

Low Temperature Behavior of Asphalt Binders, Mortars, and Mixtures with High Recycled Materials Content

Nathan Morian, Elie Y. Hajj, Sara Pournoman, Jhony Habbouche, Dario D. Batioja-Alvarez

Laboratory Evaluation of Performance Properties of Asphalt Binders and Mixes Containing a New Rejuvenator

Zhaoxing Xie, Pamela Turner, Adam Taylor, Nam Tran, Alex McCurdy

Asphalt Mixtures Containing RAS and/or RAP: Relationships amongst Binder Composition Analysis and Mixture Low Temperature Cracking Performance

Minkyum Kim, Samuel Cooper, Jr, Louay Mohammad, Gaylon Baumgardner