



AAPT Annual Meeting Program
March 22-25, 2020
San Diego, California

SUNDAY MARCH 22, 2020

2:00 – 5:00 PM

AAPT/ISAP Global Forum: *Rejuvenators*

5:30 – 7:00 PM

Icebreaker (Networking) Reception

MONDAY MARCH 23, 2020

7:00 – 8:00 AM

Newer Members Committee and Breakfast

8:00 – 9:30 AM

95th Annual Business Meeting

9:45-11:45 AM

Technical Session 1

Laboratory Evaluation of Properties of Modified Asphalt Binders with High Polymer and Softening Agent

Zhaoxing Xie, Zhuang Zhuo, Ayman Ali, Yusuf Mehta, Wade Lein, Christopher DeCarlo

Use of Polymer-Modified Asphalts (PMA) in Dense-Graded Mixtures: Internet Survey and Tools to Measure Return on Investment

Kevin D. Stuart , Walaa S. Mogawer, Shane Underwood

Impact of High-Polymer Modification on Rheological and Chemical Properties of Asphalt Binders

Jhony Habbouche, Elie Y. Hajj, Ilker Boz, Robert Klutz, Nathan E. Morian, Peter E. Sebaaly

11:45 AM – 1:15 PM

Authors/Presenters Lunch

1:15 – 5:00 PM

Technical Session 2

Three-dimensional Characterization of Asphalt Mixture Containing Recycled Asphalt Pavement
Chiara Riccardi, Augusto Cannone Falchetto, Di Wang

Influence of Reclaimed Asphalt Pavement (RAP) Source and Virgin Binder Source on RAP Specifications and Balanced Mix Design
Walaa S. Mogawer , Kevin D. Stuart, Alexander Austerman, Ahmed Soliman

Development of A Characterization Test for Uncompacted RAP
Raj Dongre, Jack Youtcheff, David Mencshing

Investigation of the Performance of 100% Reclaimed Asphalt Pavement Mixtures: Molecular, Chemical, and Mechanical Characterization
Moses Akentuna, Louay Mohammad, William H. Daly, Hesham Ali, Farshad Haddadid, Sreelatha Balamuruga, Ioan Negulescu, Samuel B. Cooper, III, Samuel B. Cooper Jr., Gaylon L. Baumgardner

Asphalt Mixture Performance Grading and Application to Illinois Tollway Performance Design
Behnam Jahangiri, Punyaslok Rath, Loreto Urrea, Jay Behnke, John Lavallee, Ross Bentsen, William G. Buttlar

6:00 – 8:30 PM

Monday Night Social (OPTIONAL)

TUESDAY MARCH 24, 2020

6:00 – 7:00 AM

Pavement Inspection Tour

8:00 – 9:15 AM

Student Poster Session

9:30 AM – 12:00 PM

Symposium: *Durability*

Introduction and Overview

FHWA Perspective

State Perspective

Contractor Perspective

Research Perspective

Panel Discussion

12:00 – 1:30 PM

Past Presidents Council

1:30 – 5:00 PM

Technical Session 3

Influence of Asphalt Binder on the Compactability of Asphalt Mixtures Using Locking Point

Pawel Polaczyk, Wei Hu, Bingye Han, Hongren Gong, Yuetan Ma, Baoshan Huang

Development of Accelerated Laboratory Friction Testing using the Three Wheel Polishing Device

Karol J. Kowalski, Fan Gu, Michael Heitzman, Rebecca S. McDaniel

Maine's Porous Asphalt Pavement: Lessons Learned from its Design, Construction, and a Decade of Performance

Derek Nener-Plante, Uma Maheswar Arepalli

Iqaluit Airport Development – A Story of Asphalt Paving in the Arctic

Bryan Palsat, Art Johnston, Jean-Martin Croteau

Performance Characteristics of in Plant Mixed Stone Mastic Asphalt SMA Using Different Rejuvenators

Axel Walther, Augusto Cannone Falchetto, Di Wang

6:00 – 7:00 PM

Social Hour

7:00 – 9:00 PM

Awards Dinner

9:00 PM

After Dinner Social

WEDNESDAY MARCH 25, 2020

8:00 AM – 12:00 PM

Technical Session 4

Relationship Between Asphalt Concrete Flexibility Index and Binder Rheological Properties

Donald W. Christensen, Ahmed A. Soliman

Laboratory Performance Tests on Intermediate-Temperature Cracking Resistance: A Case Study

Wei Cao, Louay Mohammad, Peyman Barghabany, Samuel B. Cooper, III, and Samuel B. Cooper Jr.

Recursive Pseudo Fatigue Cracking Damage

Kenneth Tutu and David Timm

Preliminary Validation of the Critical Aging Protocol for NCAT Top-down Cracking Experiment

Chen Chen, Fan Yin, Adrian Andriescu, Raquel Moraes, David Mensching, Nam Tran, Adam Taylor, Randy West

Indirect Tensile Testing for Balanced Mixture Design and Quality Control Performance Testing

Thomas Bennert, Edwin Haas, Edward Wass, Jr., Benjamin Berger