



AAPT Annual Meeting Program September 14-16, 2020

MONDAY SEPTEMBER 14, 2020

10:00 – 10:30 AM EDT (Eastern time)

Welcome Session

10:30 AM – NOON EDT

Technical Session 1

Moderator – Jhony Habbouche

Session Chair – Audrey Copeland

Development of A Characterization Test for Uncompacted RAP

Raj Dongre, Jack Youtcheff, David Mensching

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

NOON-12:30 PM EDT Break

12:30 – 2:00 PM EST

Technical Session 2

Moderator – Nathan Moore

Session Chair – JP Planche

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

2:00-2:30 PM EDT Break

2:30- 4:45 PM EDT

Technical Session 3

Moderator – Mike Aurilio

Session Chair – Gaylon Baumgardner

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

TUESDAY SEPTEMBER 15, 2020

9:00 AM – 10:00 AM EDT

NMC Meeting

Session Chair – Jenna Bowers

10:00 AM – 12:15 PM EDT

Technical Session 4

Moderator – Leslie McCarthy

Session Chair - Amy Epps Martin

Recursive Pseudo Fatigue Cracking Damage

Kenneth Tutu and David Timm

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.

12:15-12:45 PM EDT Break

12:45 AM – 3:00 PM EDT

Technical Session 5

Moderator – Brandon Milar

Session Chair - Phil Blankenship

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

Asphalt Mixture Performance Grading and Application to Illinois Tollway Performance Design

Behnam Jahangiri, Punyaslok Rath, Loreto Urrea, Jay Behnke, John Lavalley, Ross Bentsen, William G. Buttlar

3:00-3:30 PM EDT Break

3:30-5:00 PM EDT

Student Poster Session

Session Chair – Jenna Bowers

WEDNESDAY SEPTEMBER 16, 2020

5th Annual 2020 VIRTUAL Asphalt Pavement Tour ([LINK](#))

10:00 AM – 12:15 PM EDT

Technical Session 6

Moderator – David Mensching

Session Chair – Ben Bowers

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

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

Axel Walther, Augusto Cannone Falchetto, Di Wang

12:15-12:45 PM EDT Break

12:45 AM – 2:15 PM EDT

Technical Session 7

Moderator – Debaroti Ghosh

Session Chair – Jo Sias

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

2:15-2:45 PM EDT

Closing Session