AAPT Annual Meeting Program
Ft. Worth, TX

SUNDAY MARCH 3, 2019
2:00 – 5:00 PM
AAPT/ISAP Global Forum: Impacts of Climate Change on Asphalt Pavements
(Gabriele Tebaldi, Kamilla Vasconcelos)

5:30 – 7:00 PM
Icebreaker Reception

MONDAY MARCH 4, 2019
7:00 – 8:00 AM
Newer Members Breakfast (Jenna Bowers)

8:00 – 9:30 AM
94th Annual Business Meeting (Audrey Copeland)

9:45-11:45 AM
Leading Edge Workshop: Automation in the Paving Industry (Phil Blankenship)

11:45 AM – 1:15 PM
Authors/Presenters Lunch

1:15 – 3:00 PM
Technical Session 1 (Gaylon Baumgardner)

Internal Restraint Damage Mechanism for Age-Induced Pavement Surface Distresses: Block Cracking and Raveling
Michael D. Elwardany\textsuperscript{a}, Gayle King\textsuperscript{b}, Jean-Pascal Planche\textsuperscript{a}, Carolina Rodezno\textsuperscript{c}, Donald Christensen\textsuperscript{d}, Ray S. Fertig III\textsuperscript{e}, Kyle Kuhn\textsuperscript{b}, and Faisal Bhuiyan\textsuperscript{e}

\textsuperscript{a} Western Research Institute
\textsuperscript{b} GHK, Inc.
\textsuperscript{c} National Center for Asphalt Technology
\textsuperscript{d} Advanced Asphalt Technologies
\textsuperscript{e} University of Wyoming

Analysis of Double Edge Notched Tension Test and Multiple Stress Creep Recovery Test Ability to Predict HMA Fatigue Performance
Mike Aurilio\textsuperscript{a}, Ali Qabur\textsuperscript{b}, Peter Mikhailenko\textsuperscript{b}, and Hassan Baaj\textsuperscript{b}

\textsuperscript{a} Yellowline Asphalt Products Ltd.
\textsuperscript{b} University of Waterloo
Evaluation of Newly Developed Performance Grading Systems for Emulsion Residues
Andrew Hanza, R. Michael Andereb, Codrin Darangac, Brett Lambdend, and Mary Rya
a MTE Services Inc.
b Asphalt Institute
c Paragon Technical Services
d Husky Energy

3:00 – 5:00 PM
Student Poster Session (Nima Roohi)

6:00 – 9:00 PM
Monday Night Social (OPTIONAL)

TUESDAY MARCH 5, 2019
6:00 – 7:00 AM
Pavement Inspection Tour

8:00 – 11:45 AM
Technical Session 2 (Phil Blankenship)

Fifteen Years of Warm-Mix Asphalt in the United States: What are the Overall Implications of Varying Warm-Mix Technologies on High, Intermediate, and Low Temperature Behaviors?
Carl V Pittmana, Rabeea W Bazuhairy, Isaac L Howarda, and James Michael Hemsley, Jr.b
a Mississippi State University
b Paragon Technical Services

Warm Mix Asphalt (WMA) for Airport Pavements – Relating Laboratory Test Results to Performance Under Accelerated Pavement Testing (APT)
Hasan Kazmeeb, Navneet Gargb, Christopher Tomlinsonb and Lia Ricaldeb
a Federal Aviation Administration, William J. Hughes Technical Center,

State of Practice on the Use of Tack Coats for Micro-Surfacing Applications: A Survey
Munir Nazza and Louay Mohammadb
a Ohio University
b Louisiana State University/LTRC

Superpave5: Relationship of In-Place Air Voids and Asphalt Binder Aging
Gerald Hubera, Jason Wielinskia, Christopher Campbella, Jim Padgettb, Geoffrey Rowe, Matt Beeson, and Seong-Hwan Cho
a Heritage Research Group
b Walsh and Kelly
c Abatech
d Indiana Department of Transportation
Estimating Frictional Properties of Compacted Asphalt Mixtures  
Rebecca S. McDaniel a

Evaluation of Increased Use of RAP with Soft Husky Asphalt Binder  
John D’Angelo a, Raj Dongre b, and Brett Lambden c

BY TITLE ONLY  
Performance Evaluation for Cold In-Place Recycling with Different Binders, Curing Processes and Compaction Levels  
Ahmed Saidi a, Zhaoxing Xie a, Ayman Ali a, and Yusuf Mehta a

11:45 AM – 1:15 PM  
Past Presidents Council (Gaylon Baumgardner)

1:15 – 1:50 PM  
Technical Session 3 (Jo Sias, Dave Timm)

Developing a Performance-Related Specification Program for Asphalt Pavements  
Mirkat Oshone a, Jo E. Sias a, Leslie Myers McCarthy b, David J. Mensching c, Eshan V. Dave a

Overview of M-E Approaches (Invited Speakers)

State/User Agency Experience and Implementation:

Virginia’s Experience with MEPDG Implementation  
Harikrishnan Nair a, Affan Habib b, Bryan Smith b, and Girum Merine b

Implementation of Texas Mechanistic-Empirical Flexible Pavement Design System  
Sheng Hu a, Asif Rahman a, Jun Zhang a, Fujie Zhou a, Tom Scullion a, and Enad Mahmoud b
International Perspective (Invited Speakers)

6:00 PM
Social Hour

7:00 PM
Awards Dinner (Audrey Copeland)
After Dinner Social

WEDNESDAY MARCH 6, 2019
8:00 – 11:45 AM
Technical Session 4 (Adam Hand)

Balanced Mix Design Sensitivity to Production Tolerance Limits and Binder Source
Walaa Mogaweraa, Alexander Jordan Austermanb, Kevin D Stuartb, Fuji Zhouc, and Pedro Romerod

Balanced Design of Asphalt Mixes with Reclaimed Asphalt Pavement and Recycled Asphalt Shingle Using Binder and Mixture Performance Tests
Xuan Chenb, Mansour Solaimanianb, and Scott Mildera

Relationships between Mixture Fatigue Performance and Asphalt Binder Properties
Donald Christensenaa and Nam Tranb

Impact of High Polymer Modification on the Performance Characteristics of Asphalt Mixtures
Jhony Habbouchea, Elie Y. Hajja, Murugaiyah Piratheepana, and Peter E. Sebaalya

Impact of Crumb Rubber Modifier Type and Blending Temperature on Asphalt Binder and Mixture Properties
Sreelatha Balamurugana, Louay Mohammada, Moses Akentunaa, William Dalya, Ioan Negulescu,a, Samuel Cooper, IIIb, Samuel Cooper, Jr.b, and Gaylon Baumgardnerc

Recent Advances in Ground Tire Rubber Recycling in Midwest Pavements
Punyaslok Rathb, Hamed Majidifardb, Behnam Jahangiria, and William Buttllar

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a HSRC/University of Massachusetts
b Consultant
c Texas A&M Transportation Institute
d University of Utah

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Pennsylvania State University

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Advanced Asphalt Technologies, LLC

National Center for Asphalt Technology

University of Nevada Reno (UNR)

Louisiana State University

Louisiana Transportation Research Center

Paragon Technical Services

University of Missouri, Columbia
BY TITLE ONLY

Obtaining Asphalt Binders Rheological Properties from BBR Strength Test—The Effect of Loading Rate
Tianhao Yan, Mugurel Turosa, and Mihai Marasteanu

Component Materials Selection Guidelines and Evaluation Tools for Binder Blends and Mixtures with High Recycled Materials Content and Recycling Agents

Evaluation and Comparison of Cracking Tests for Top-Down Cracking Resistance of Asphalt Mixtures
Chen Chen, Nathan Moore, Randy West, Fan Yin, and Adam Taylor

A Machine Learning Approach for the Prediction of Fracture Energy in Asphalt Mixtures
Hamed Majidifard, Behnam Jahangiri, Amir Alavi, and William Buttlar

Evaluating Aggregate Size Effects on Dynamic Modulus Using Gray Scale Analysis
Sadie E Smith, Airam M Morales, and Andrew F Braham

Development and Validation of an Ideal Shear Rutting Test for Asphalt Mix Design and QC/QA
Fujie Zhou, Bill Crockford, Jun Zhang, Sheng Hu, Jon Epps, and Lijun Sun

Separating Load from Moisture Effects in Wet Hamburg Wheel-Track Test
Quan Lv and Hussain U. Bahia

BY TITLE ONLY

Developing a Robust Modeling Approach for Pavement Performance Prediction and Optimization
Parnian Ghasemi, Mohamad Aslani, Ronald Christopher Williams, and Derrick Rollins

a University of Minnesota

1:15 – 5:00 PM
Technical Session 5 (Randy West)

a Texas A&M University
b Texas A&M Transportation Institute
c University of New Hampshire
d University of Nevada – Reno
e Nevada Department of Transportation

a NCAT

a University of Missouri-Columbia

a University of Arkansas

a Texas A&M Transportation Institute
b Tongji University

a Tongji University
b University of Wisconsin – Madison

a Iowa State University