AGENDA Spring 2022

April 5 – April 7, 2022
Embassy Suites by Hilton Nashville Airport – Nashville, TN

Monday, April 4th (5:30 – 7:00 PM) – Reception for all attendees

Tuesday, April 5th

6:30 am  Breakfast buffet available

8:00 am  GENERAL SESSION

8:00  Welcome – Tennessee DOT and Dan Miller, P.E., NC\textsuperscript{2} Executive Committee Chair, Ohio DOT
8:15  FHWA Program Update – Mike Praul, P.E., FHWA
8:30  MCTC Test Data Analysis - Jagan Gudimettla, P.E., FHWA
9:00  PEM Update – Gordon Smith, P.E., CP Tech Center
9:20  State Reports – Sustainability Questions (coal ash, carbon sequestration, natural pozzolans, PLC status) – Dan Miller, P.E., Ohio DOT
9:50  Business Meeting/Election – Dan Miller, P.E., Ohio DOT
10:05  Morning Break

Theme: Sustainability Initiatives

10:30  FHWA Environmental Sustainability Initiative – Gina Ahlstrom, FHWA and Robert Spragg, Ph.D., FHWA
11:00  LCA Pave Tool – Brian Dobling, P.E., PMP, FHWA
11:30  Use Phase Impacts in Life Cycle Assessment – Randy Kirchain, Ph.D., Massachusetts Institute of Technology
11:50  Q & A – Open Discussion
12:00  LUNCH

Theme: Sustainable Materials

1:00  Cement Company Perspective on Environmental Sustainability “Net Zero” – Dave Diedrick, LaFargeHolcim
1:30  Use of Construction Byproducts in Concrete Paving Mixtures – Tara Cavalline, Ph.D., P.E., University North Carolina Charlotte
2:00  Evaluation of Sustainable Materials: NRRA and MnROAD Research - Larry Sutter, Ph.D., P.E., Michigan Tech University and Tom Van Dam, Ph.D., P.E., NCE
2:30  Q & A – Open Discussion
2:45  Afternoon Break

Theme: Coal Combustion Ash and Other Pozzolanic Materials

3:15  Developments in Specifications and Tests for Fly Ash and Other SCMs – Larry Sutter, Ph.D., P.E., Michigan Tech
3:45  Update on NCHRP Project 10-104: Recommendations for Revision of AASHTO M 296 Standard Specification to Include Marginal and Unconventional Source Coal Fly Ashes – Christopher Shearer, Ph.D., South Dakota School of Mines and Technology
4:15  MnDOT Approach to Accepting Coal Combustion Ash – Maria Masten, P.E., Minnesota DOT and Tyler Ley, Ph.D., P.E., Oklahoma State University
4:45  Q & A – Open Discussion
5:00  Adjourn/dinner on your own
Wednesday, April 6th

6:30 am  Breakfast buffet available

Theme: State Initiative Spotlights

8:00  REBEL Sensor - Real-Time Concrete Strength Monitoring Without Using Maturity Curve - Luna Lu, Ph.D., Purdue University
8:30  INDOT’s Use of Colloidal Silicas – Mike Nelson, P.E., Indiana DOT
9:00  Early Loading to Deploy Overlay Joints: Does It Work? – Tom Burnham, P.E., Minnesota DOT
9:30  Q & A - Open Discussion
9:45  Morning Break

Theme: Structural Concrete

10:15  Bridge Deck Cracking Initiatives – Darin Hodges, P.E., South Dakota DOT and Christopher Shearer, Ph.D., South Dakota School of Mines and Technology
10:45  Research on Evaluation of the Expected Life and Recoating of Silane Water Repellant Treatments on Bridge Decks – Tyler Ley, Ph.D., P.E., Oklahoma State University and Nairi Matevosyan, P.E., Oklahoma DOT
11:45  Q & A - Open Discussion
12:00  LUNCH

Theme: Synthesis Studies

1:00  Updates to AASHTOWare Pavement ME Design Software Affecting Concrete Pavements – Georgene Gerry, Ph.D., P.E, GffGA Engineering
1:15  Shrinkage & Crack Free Bridge Decks – Jason Weiss, Ph.D., Oregon State University
1:30  Rapid Setting Materials – Tyler Ley, Ph.D., P.E., Oklahoma State University
1:45  Maintaining Smoothness – Jerod Gross, P.E., Snyder & Associates
2:00  Development of an Improved Protocol for Structural Evaluation of Dowel Load Transfer Systems for Concrete Pavements – Mark Snyder, Ph.D., PE, ACPA
2:15  In Situ Cyclic Loading of Concrete Pavement Overlays Supported on Geotextile and Asphalt Interlayers – Peter Taylor, Ph.D., P.E., CP Tech Center
2:30  John C. Tune Airport’s Engineered Materials Arrestor System (EMAS) – Technical Tour Presentation
3:00  Afternoon Break
3:30  TTCC TPF 5(437) TAC Meeting – for state agency members
5:00  TTCC TAC meeting adjourns/dinner on your own

Thursday, April 7th – Technical Tour of Engineered Materials Arrestor System (EMAS) at John C. Tune Airport in west Nashville -  MAP

6:45 am  Breakfast available until 8:00 am.
8:00  Charter coaches depart for technical tour of John C. Tune Airport’s EMAS
10:45  Approximate drop off time at Nashville Airport (BNA)
11:00  and Embassy Suites Hotel