

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., NC² 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 Doblin, 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: NRR 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
- 11:15 TPF-5 Construction of Low-Cracking High-Performance Bridge Decks Incorporating New Technology – Dan Wadley, P.E., Kansas 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 – David White, Ph.D., P.E., Ingios Geotechnics
- 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*