Petersen Asphalt Research Virtual Conference 2020 Tentative Agenda
Monday July 13

Session 1—Rheological Performance Indices

1. “Investigation of physical hardening impact on the loss of low-temperature performance grade and delta Tc in asphalt binders” by A. Andriescu, A. Golalipour, V. Veginati, D. J. Mensching, and J. Youtcheff - SES Group & Associates, ESC Inc., and FHWA

2. “Fundamental and empirical relationships between binder cracking indicators” by Ramez Hajj - University of Illinois at Urbana-Champaign


Session 2—Plastic Recycling in Pavements


5. “Life-cycle assessment of asphalt pavements with recycled plastics” by M. Rangelov, H. Dylla, N. Sivaneswaran – FHWA

6. “Novel polyolefin waxes from recycled plastic feedstocks improve the performance and sustainability of asphalt formulations” by J. Almey, D. Di Mondo – GreenMantra Technologies

7. “Impact of Recycled Polyethylene Particle Size on Interaction with Ground Tire Rubber in Terms of Storage Stability and Mechanical Properties” by H. Leodarta, W. Buttllar - University of Missouri Columbia

Session 3—Pavement Recycling and Recycling Agents

8. “Evaluation of Aging Hardening on Reclaimed Asphalt Pavement Binder Containing Rejuvenators” by Y. Liang, M. Elkashef, D. Jones, J. Harvey – University of California Davis


Session 4—Asphalt Mixture Evaluation


12. “Evaluation of asphalt mixture performance using different cracking and durability tests” by A. Golalipour, V. Veginati, D. J. Mensching – ESC Inc. and FHWA

13. “Assessment of the NCHRP 1-52 Top-Down Cracking Model on a Full-Scale Pavement Test Section” by R. L. Carvalho, R. Dongre, J. Youtcheff and D. J. Mensching – SES/Oaken Consult, DLSI, and FHWA


15. “Laboratory and Field Investigation of Engineered Crumb Rubber Modified Asphalt Binders and Mixtures” by P. Rath, B. Jahangiri, H. Majidifard, S. Chen, W. Buttllar, University of Missouri Columbia

Tuesday July 14

**Session 5—Polymer-Modified Asphalts**


20. “RILEM TC 272 PIM TG1: Glass Transitions in Complex Bituminous Binders” by P. Apostolidis (TU Delft), L. Porot (Kraton Polymers), M. Elwardany (Western Research Institute), S. Vansteenkiste (Belgian Road Research Centre), E. Chailleux (Université Gustave Eiffel) – TU Delft, Kraton Polymers, WRI, Belgian Road Research Centre, and Université Gustave Eiffel


**Session 6—Advancements in Studying Asphalt Fractions**


24. “Redefining the Colloidal Instability Index for Paving-grade Asphalts” by Michael D. Elwardany, Jeramie Adams, Joseph Rovani, Jean-Pascal Planche – WRI


**Session 7—Pavement Sealing Materials**


**Session 8—Machine Learning Applications**


29. “From PG Grade to Pavement Performance – A Virtual Research Project” by R. Dongre and J. Youtcheff – DLSI and FHWA


**Professional Development Hours (PDH's)**

16 PDH’s will be provided to registered participants upon request after the conference.
Thank you to our current Platinum Sponsors!

ExxonMobil  
Imperial

Thank you to our current Sponsors!

BASF  
NETZSCH

Thank you to our current Exhibitors!

COLAS  
Husky Asphalt

NAPA  
HEATEC  
KRATON

BASF  
NETZSCH  
TA Instruments