ILLINOIS CENTER FOR TRANSPORTATION

65TH ILLINOIS BITUMINOUS PAVING CONFERENCE

Illinois Bituminous Paving Conference

DEC. 10-11, 2024

I Hotel and Conference Center in Champaign, IL

This year, the Illinois Bituminous Paving Conference's sessions provide valuable insights into sustainable paving practices, focusing on low-carbon materials, sustainability, and innovations in bituminous paving. Join sessions, connect with exhibitors and experts, earn professional development hours and stay updated on the latest advancements in the field.

The University of Illinois Urbana-Champaign's Illinois Center for Transportation is responsible for planning and hosting this event.

PROGRAM

TUESDAY, DECEMBER 10

Location: I Hotel and Conference Center | Heritage Hall

3:30 – 5:00 PM
Effective Friction for Safe and Sustainable Pavements
Edgar David de León Izeppi, Virginia Tech Transportation Institute
John Senger, Illinois Department of Transportation
Jeffrey Shaw, Federal Highway Administration
Priscilla Tobias, Arora and Associates, P.C.
Moderator: **Yanfeng Ouyang**, ICT/Illinois

5:00 – 7:30 PM
Reception
Exhibits Open

WEDNESDAY, DECEMBER 11

Location: I Hotel and Conference Center | Heritage Hall

7:30 – 8:00 AM
Registration & Exhibits
Continental Breakfast Available

8:00 – 8:10 AM
Welcoming Remarks
Imad L. Al-Qadi, Conference Chair, ICT/Illinois

8:10 – 8:30 AM
IDOT Update
John Donovan, Chief Operating Officer, IDOT

8:30 – 8:50 AM
FHWA Update
Mike Smart, Director of Program Administration, FHWA Illinois Division

8:50 – 9:30 AM
Rethinking Sustainability
Richard Willis, NAPA

9:30 – 10:00 AM
BREAK & Exhibitors Showcase
Exhibits Open

10:00 – 10:30 AM
Advancing Low-Carbon Materials
LaToya Johnson, FHWA
Moderator: **John Senger**, IDOT

10:30 – 11:00 AM
Research Needs Related to Possible Trichloroethylene Ban
David Mensching, FHWA
Moderator: **John Senger**, IDOT

11:00 – 11:30 AM
Accelerated Pavement Testing of Stone-Matrix Asphalt with Local Aggregate
Javier García Mainieri, ICT/Illinois
Moderator: **Kevin Burke**, IAPA

11:30 – 12:00 PM
Role of Bio-Materials in Decarbonizing Asphalt Road Construction
Khaled Hasiba, Cargill Bioindustrial
Moderator: **Kevin Burke**, IAPA

12:00 – 12:15 PM
AWARDS
Moderator: **Brian Hill**, IDOT

12:15 – 1:00 PM
LUNCH
Exhibits Open

1:00 – 1:30 PM
Flexible Pavement Life Cycle Assessment
Imad L. Al-Qadi, ICT/Illinois
Moderator: **Laura Heckel**, IDOT

1:30 – 2:00 PM
Impact of Electric Trucks on Flexible Pavements
Jaime Hernandez, Marquette University
Moderator: **Laura Heckel**, IDOT

2:00 – 2:30 PM
Reclaimed Materials in Pavement Preservation Mixes
David Peshkin, ApTech
Moderator: **John Lynch**, IPC

2:30 – 3:00 PM
Pavement Density Using Dielectric Mapping
Lama Abufares, ICT/Illinois
Kyle Hoegh, Minnesota DOT
Moderator: **John Lynch**, IPC

3:00 – 3:30 PM
IDOT HMA Technical Update
Brian Hill, IDOT
Moderator: **Ramez Hajj**, ICT/Illinois

3:30 – 4:00 PM
Illinois Tollway Shoulder Pavement Preservation – Spray-on Asphalt Rejuvenation
Max Barry, STATE Testing
Cindy Williams, Illinois Tollway
Moderator: **Ramez Hajj**, ICT/Illinois

Please use the QR code to provide feedback.

Effective Friction for Safe and Sustainable Pavements

Edgar David de León Izeppi is the leader of VTTI's vehicle-pavement interaction group. He focuses on performance-oriented specifications and conducts extensive data collection for pavement performance, life cycle cost analysis and design. He has over 40 years of experience in pavement management and transportation engineering. He has participated in FHWA's pavement friction management program as well as several TRB committees and contributed to protocols for network-level macrotexture measurement.

Effective Friction for Safe and Sustainable Pavements

John Senger is IDOT's Bureau Chief of Research. Before joining IDOT, Senger was a consulting engineer, working on a wide range of projects. He earned his bachelor's in civil engineering from Bradley University.

Effective Friction for Safe and Sustainable Pavements

Jeffrey Shaw serves as the Intersection Safety Program Manager for the FHWA Office of Safety. He manages programs, projects and products of national interest that are intended to enhance intersection safety. He is a registered professional engineer in Illinois and a board-certified professional traffic operations engineer and road safety professional.

Effective Friction for Safe and Sustainable Pavements

Priscilla Tobias is the VP of Midwest Operations for Arora and Associates, P.C. and has over 30 years of diverse transportation experience. A Virginia Tech alumna, she is a licensed professional engineer and a certified road safety professional. Tobias excels in strategically developing, implementing and managing innovative data-driven, multi-disciplined safety programs and initiatives nationwide.

IDOT Update

John Donovan is IDOT's Chief Operating Officer, serving as a principal agency-wide policy advisor to Secretary Osman and overseeing IDOT's operations and activities integration. Previously, Donovan worked at FHWA's Illinois Division for 21 years, focusing on safety conscious planning, performance-based planning and programming, and innovative funding. He also conducted merit and project readiness reviews for USDOT, USEPA, and HUD discretionary grant programs. Donovan holds a master's from UIC and a bachelor's from Illinois.

FHWA Update

Mike Smart is Director of the FHWA Illinois Division's Program Administration Section, overseeing program specialists across structures, safety and operations, asset management, pavement and materials, civil rights and realty. He has managed high-profile projects such as the I-270 and I-80 corridor projects in Illinois, the new I-74 Mississippi River Bridge, the Frederick Douglass Memorial Bridge and the I-395 airspace development. Smart is a graduate of Tennessee Tech University.

Rethinking Sustainability

Richard Willis is VP for Engineering, Research, & Technology at NAPA. He addresses issues related to recycled materials in asphalt mixtures, pavement-vehicle interaction, pavement design and environmental product declarations.

Advancing Low-Carbon Materials

LaToya Johnson leads the pavement design and performance team at the FHWA Office of Infrastructure. Her team sets agency priorities, develops and implements policy, and assists in the deployment of related tools and products in the areas of pavement design, preservation, performance management, sustainability, resilience and materials quality assurance. She holds bachelor's degrees from Spelman College and Georgia Tech and a master's from the University of Maryland, College Park. Johnson is a licensed professional engineer in Georgia.

Research Needs Related to Possible Trichloroethylene Ban

David Mensching is the infrastructure materials team leader at FHWA. He oversees five research programs and laboratories at the Turner-Fairbank Highway Research Center, including the Asphalt Binder and Mixtures Laboratory and the Pavement Testing Facility. He chairs TRB's Standing Committee on Binders for Flexible Pavement and is a licensed professional engineer in Virginia.

Accelerated Pavement Testing of Stone-Matrix Asphalt with Local Aggregate

Javier García Mainieri is an ICT doctoral candidate working with Al-Qadi. His current research focuses on optimizing stone-matrix asphalt by using local aggregates. He collaborated with IDOT to develop softener-modified asphalt testing protocols.

Role of Bio-Materials in Decarbonizing Asphalt Paving

Khaled Hasiba serves as the Midwest Business Development Manager for Cargill's Construction & Infrastructure category. He has over 14 years of experience in the road construction industry and has participated in numerous research projects regarding recycling in asphalt pavements and tack coat materials. He holds two master's degrees from Illinois. He is a registered professional engineer and an active member of various organizations, including NAPA.

Flexible Pavement Life Cycle Assessment

Imad Al-Qadi is the Grainger Distinguished Chair in Engineering at Illinois and ICT Director. Al-Qadi's research efforts have developed new tests, testing specifications, and advanced modeling and simulation of pavement loading and crack development. He is a registered professional engineer and is a Distinguished Member of the American Society of Civil Engineers.

Impact of Electric Trucks on Flexible Pavements

Jaime Hernandez is an assistant professor at Marquette University. His research focuses on characterization of tire-pavement contact stresses, tire-pavement interaction, the effect of tire parameters on pavement damage, modeling pavement structures, pavement evaluation, and mechanistic-empirical approaches to pavement design. He earned his doctorate from Illinois in 2015.

Reclaimed Materials in Pavement Preservation Mixes

David Peshkin joined APTech in 1996 as a Vice President and Principal, focusing on pavement maintenance and preservation, evaluation and design, technology transfer, and pavement research. Today, he provides consulting engineering services on airport and roadway projects worldwide. He holds a bachelor's and master's from Illinois, a bachelor's from Swarthmore College and is a registered professional engineer in multiple states.

Pavement Density Using Dielectric Mapping

Lama Abufares is an ICT doctoral student working with Al-Qadi. Abufares' research interests include ground-penetrating radar applications to asphalt pavements, asphalt materials, pavement performance, signal processing, optimization and machine learning techniques. Currently, Abufares is working on monitoring the quality of asphalt pavements using ground-penetrating radar during construction.

Pavement Density using Dielectric Mapping

Kyle Hoegh is a research engineer at MnDOT, specializing in nondestructive evaluation. He is the project manager of the Transportation Pooled Fund TPF-5(443), "Continuous Asphalt Mixture Compaction Assessment using Density Profiling System (DPS)." Hoegh received his doctorate in civil engineering from the University of Minnesota in 2013 and has been working at MnDOT for almost 10 years.

IDOT HMA Technical Update

Brian Hill is the hot-mix asphalt and aggregate engineer at IDOT's Central Bureau of Materials. He joined IDOT in July 2016. He has degrees in civil engineering from Illinois.

Illinois Tollway Shoulder Pavement Preservation – Spray-on Asphalt Rejuvenation

Max Barry leads the Illinois Tollway Materials Engineering Consultant, directing operations of large-scale construction projects including the Central Tri-State Tollway (I-294) Project and I-490 Tollway Project. His responsibilities include management and interfacing construction materials inspection services with design and specification consultation for asphalt, concrete, aggregate and earthwork operations systemwide, along with implementing the latest materials research, innovation, new technology and accompanying trials. He consults on advanced asphalt topics, using experience at ICT and STATE Testing.

Illinois Tollway Shoulder Pavement Preservation – Spray-on Asphalt Rejuvenation

Cindy Williams is Deputy Chief of Program Implementation at the Illinois Tollway. She brings over 30 years of experience in heavy highway construction industry. She is responsible for system integrity including overseeing materials management and related standards and specifications. She strives to enhance projects' overall quality under the Illinois Tollway's 16-year, $15 billion Move Illinois capital program. Williams earned a bachelor's in construction administration from the University of Wisconsin-Madison.

MODERATORS

Kevin Burke is the Executive VP of IAPA. Prior to joining IAPA, Burke spent 20 years serving IDOT in the Materials and Physical Research and Local Roads and Streets Bureaus.

Ramez Hajj is an Illinois assistant professor. Hajj's research focuses on chemical and physical characterization of asphalt materials and designing new construction materials for the next generation of flexible pavements.

Brian Hill is the hot-mix asphalt operations engineer at IDOT's Central Bureau of Materials. He joined IDOT in July 2016. He holds degrees in civil engineering from Illinois.

Laura Heckel is IDOT's asset management engineer. She coordinates the transportation asset management plan, collaborates with committees, manages FHWA submissions and works with central bureaus and the districts to ensure that TAMP objectives align with other department goals.

John Lynch is the VP of Iroquois Paving Corporation. Lynch has worked as a laborer on the paving crew, in the Quality Control Lab and as an estimator. He serves on the Board of Directors, is an IAPA board member and is a former IAPA President.

Yanfeng Ouyang is the George Krambles Professor at Illinois and ICT associate director for mobility. He specializes in transportation and logistics systems for safety, efficiency, sustainability and resilience. He is an editor of multiple academic journals and chair of TRB's Transportation Network Modeling Committee.

John Senger is IDOT's Bureau Chief of Research. Before joining IDOT, Senger was a consulting engineer, working on a wide range of projects. He earned his bachelor's in civil engineering from Bradley University.

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