



ILLINOIS CENTER FOR  
TRANSPORTATION

# 66TH

## ILLINOIS BITUMINOUS PAVING CONFERENCE

**DEC. 9-10, 2025**

**I Hotel and Conference Center  
Champaign, IL**

Illinois  
Bituminous Paving  
Conference

**This year, the Illinois Bituminous Paving Conference's sessions provide valuable insights into safe and resilient pavements. 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.**



## TUESDAY, DECEMBER 9

Location: I Hotel and Conference Center | Heritage Hall

**3:30 - 5:00 P.M.**

### **Flexible Pavement Smoothness: Construction, Performance, Measurements and Rolling Resistance**

Bill Pine, Heritage Group. Focus: HMA Production & Best Practices

Hyung Lee, Applied Research Associates. Focus: Pavement Performance

John Senger, Illinois Department of Transportation. Focus: Measuring Techniques

Imad Al-Qadi, Illinois Center for Transportation/Illinois. Focus: Rolling Resistance Effect on Fuel Consumption

Moderator: Yanfeng Ouyang, ICT/Illinois

**5:00 - 7:30 P.M.**

### **Reception**

Exhibits Open

## WEDNESDAY, DECEMBER 10

Location: I Hotel and Conference Center | Heritage Hall

**7:30 - 8:00 A.M.**

### **Registration & Exhibits**

Continental Breakfast Available

**8:00 - 8:10 A.M.**

### **Welcoming Remarks**

Imad Al-Qadi, Conference Chair,  
ICT/Illinois

**8:10 - 8:30 A.M.**

### **IDOT Update**

Justan Mann, Deputy Directory of Highways,  
Illinois Department of Transportation

**8:30 - 8:45 A.M.**

### **Illinois Tollway Update**

Cindy Williams, Deputy Chief of Program  
Implementation, Illinois Tollway

**8:45 - 9:30 A.M.**

### **Towards Zero-Emission Road Construction: The Use of Recycled Materials in Pavement Structures**

Sigurður Erlingsson, VTI, KTH, Univ. of Iceland  
Moderator: Imad Al-Qadi, ICT/Illinois

**9:30 - 10:00 A.M.**

### **Break & Companies Showcase**

Exhibits Open

**10:00 - 10:30 A.M.**

### **Continuous and Contactless Friction Measurements**

Mohammad Fakhreddine, ICT/Illinois  
Moderator: John Lynch, IPC

**10:30 - 11:00 A.M.**

### **Life-Cycle-Based Pavement Friction Management and Treatment Selection for IDOT and Local Roadways**

Yanfeng Ouyang, ICT/Illinois  
Moderator: John Lynch, IPC

**11:00 - 11:30 A.M.**

### **Balanced Mix Design Implementation and Future of Volumetric/Performance-Based Mix Design**

Tom Bennert, Rutgers University  
Moderator: Kevin Burke, IAPA

**11:30 - NOON**

### **Mix Design Optimization and Artificial Intelligence**

Uthman Mohamed Ali, ICT/Illinois  
Moderator: Kevin Burke, IAPA

**12:00 - 12:15 P.M.**

### **Awards & Companies Showcase**

Moderators: Brian Hill, IDOT; Kevin Burke, IAPA

**12:15 - 1:00 P.M.**

### **LUNCH**

Exhibits Open

**1:00 - 1:30 P.M.**

### **Prediction of Mix Performance from Modified Binder Properties**

Kelly Senger, IDOT  
Gafar Sulaiman, ICT/Illinois  
Moderator: Jim Trost, Gallagher

**1:30 - 2:00 P.M.**

### **Lab and Field Evaluation of Extended Life HMA Sections and Implications on Pavement Design**

Ramez Hajj, ICT/Illinois  
Moderator: Jess Hawkins, IAAP

**2:00 - 2:30 P.M.**

### **Trichloroethylene Status and Future of Binder Extraction/Recovery**

Andrew Hanz, MTE Services  
Moderator: Jess Hawkins, IAAP

**2:30 - 3:00 P.M.**

### **I-CART Expansion**

John Senger, IDOT  
Moderator: Andrew Stolba, IDOT

**3:00 - 3:30 P.M.**

### **IDOT HMA Technical Update**

Brian Hill, IDOT  
Moderator: Andrew Stolba, IDOT



## **Flexible Pavement Smoothness: Construction, Performance, Measurements and Rolling Resistance**

**Bill Pine** is the quality control director of asphalt technology for Heritage Construction and Materials, where he provides support and guidance to hot-mix asphalt QC departments. He joined The Heritage Group in 1999 and became QC director in 2012. From 1985 to 1998, Pine worked in IDOT District 5, focusing on hot-mix asphalt design, production and placement.



## **Flexible Pavement Smoothness: Construction, Performance, Measurements and Rolling Resistance**

**Hyung Lee** is a principal research engineer with Applied Research Associates. He has 20 years of pavement engineering experience and has led studies on pavement surface characteristics, truck-pavement interaction and dynamic loading. Lee was principal investigator for ICT project R27-199, which developed a pavement smoothness specification for IDOT based on the International Roughness Index.



## **Flexible Pavement Smoothness: Construction, Performance, Measurements and Rolling Resistance**

**John Senger** is Illinois Department of Transportation's bureau chief of research. Before joining IDOT, he worked as a consulting engineer on a range of infrastructure projects. Senger earned a bachelor's degree in civil engineering from Bradley University.



## **Flexible Pavement Smoothness: Construction, Performance, Measurements and Rolling Resistance**

**Imad Al-Qadi** is the Grainger Distinguished Chair in Engineering at the University of Illinois and the director of the Illinois Center for Transportation. His research has led to the development of innovative technologies, testing protocols, and advanced modeling methods for highway and airfield pavements. He is a registered professional engineer and a Distinguished Member of the American Society of Civil Engineers.



## **IDOT Update**

**Justan Mann**, deputy director in IDOT's Office of Highways Project Implementation, is a licensed professional and structural engineer with a master's degree in civil engineering from Southern Illinois University Carbondale. He began his career in heavy highway construction and has since served in multiple engineering roles within IDOT.



## **Illinois Tollway Update**

**Cindy Williams** is deputy chief of program implementation at Illinois Tollway. Williams oversees systemwide projects, infrastructure asset and materials management, and related standards and specifications.



## **Towards Zero-Emission Road Construction: The Use of Recycled Materials in Pavement Structures**

**Sigurður Erlingsson** is a professor of pavement engineering affiliated with VTI in Sweden, KTH in Stockholm and the University of Iceland. His research focuses on pavement design, performance prediction, instrumentation and climate effects.



## Continuous and Contactless Friction Measurements

**Mohammad Fakhreddine** is a doctoral candidate in civil engineering at the University of Illinois Urbana-Champaign. He earned a master's degree from the American University of Beirut and a bachelor's degree from Beirut Arab University. Working under Professor Imad Al-Qadi, he is developing a vision-based friction measurement device that uses high-speed imaging and machine learning to assess pavement surfaces and predict friction.



## Life-Cycle-Based Pavement Friction Management and Treatment Selection for IDOT and Local Roadways

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



## Balanced Mix Design Implementation and Future of Volumetric/Performance-Based Mix Design

**Tom Bennert** is a research professor at Rutgers University and director of the Rutgers Asphalt and Pavement Laboratory. His work centers on asphalt materials characterization, performance-based mix design and pavement rehabilitation. He has authored publications on asphalt technology and advises agencies on implementing balanced mix design and performance testing.



## Mix Design Optimization and Artificial Intelligence

**Uthman Mohamed Ali** is a principal research engineer at ICT. He has experience evaluating the performance of asphalt binder, asphalt mixtures and Portland cement concrete. He leads and supports ICT research, including testing plan development, laboratory and field testing, and protocol optimization.



## Prediction of Mix Performance from Modified Binder Properties

**Kelly Senger** is chief chemist for IDOT's Central Bureau of Materials. She oversees chemical testing and analysis that support transportation infrastructure across Illinois. She previously served as analytical chemistry lab supervisor in the Analytical Chemistry Laboratory at IDOT's Bureau of Materials and Physical Research.



## Prediction of Mix Performance from Modified Binder Properties

**Gafar Sulaiman** is an Illinois doctoral candidate in the Al-Qadi research group. His research focuses on optimizing polymer-softener-modified binder for resilient, economic and sustainable flexible pavement.



## Lab and Field Evaluation of Extended Life HMA Sections and Implications on Pavement Design

**Ramez Hajj** is an Illinois assistant professor and ICT's asphalt materials lead. His research focuses on chemical and physical characterization of asphalt materials and on designing new construction materials for next-generation flexible pavements. He earned his doctoral and master's degrees at the University of Texas at Austin and his bachelor's degree from Virginia Tech, all in civil engineering.



### Trichloroethylene Status and Future of Binder Extraction/Recovery

**Andrew Hanz** is director of Mathy Technology and Engineering Services, where he oversees technical support for Mathy Construction operations in aggregates, asphalt mixtures and binders. He manages product evaluation and internal research and works closely with state and local agencies. Hanz earned a doctorate in civil engineering from the University of Wisconsin-Madison.



### I-CART Expansion

**John Senger** is IDOT's bureau chief of research. Before joining IDOT, he worked as a consulting engineer on a range of infrastructure projects. Senger earned a bachelor's degree in civil engineering from Bradley University.



### IDOT HMA Technical Update

**Brian Hill** is the Engineer of HMA and Aggregate at IDOT's Central Bureau of Materials. He joined IDOT in July 2016. He holds civil engineering degrees from Illinois.

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# 67TH

ILLINOIS BITUMINOUS  
PAVING CONFERENCE

is scheduled for December  
8-9, 2026, at the I Hotel  
and Conference Center in  
Champaign, IL



# MODERATORS



**Kevin Burke** is the executive vice president of the Illinois Asphalt Pavement Association. Before joining IAPA, he spent 20 years at IDOT, serving in the Materials and Physical Research and Local Roads and Streets bureaus. His background includes extensive work in transportation materials, quality oversight and infrastructure support.



**Jess Hawkins** is assistant director of the Illinois Association of Aggregate Producers. Hawkins joined IAAP in 2023 and works to advance the association's mission across Illinois' aggregate and related industries.



**Brian Hill** is the Engineer of HMA and Aggregate at IDOT's Central Bureau of Materials. He joined IDOT in July 2016. He holds civil engineering degrees from Illinois.



**John Lynch** is vice president of Iroquois Paving Corporation. He has worked as a laborer on the paving crew, in the Quality Control Lab and as an estimator. Lynch serves on the company's 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 modeling transportation and logistics systems for safety, efficiency, sustainability and resilience. He is an editor of multiple academic journals and former chair of Transportation Research Board's Transportation Network Modeling Committee.

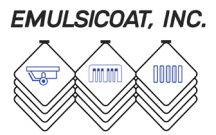


**Andrew Stolba** is chief geologist for IDOT, where he and his team develop and enforce the state's aggregate quality specifications and policies. He previously worked for RiverStone Group and at Bowser-Morner Testing Laboratories. Stolba has chaired multiple aggregate-related research projects with ICT.



**Jim Trost** is president of Gallagher Asphalt. He serves as the Illinois state advisor and vice chair of the North Central Region Advisory Council for the National Asphalt Pavement Association. He also serves on NAPA's and IAPA's boards of directors and on the IAPA Executive Committee.

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