

# 61st ILLINOIS BITUMINOUS PAVING CONFERENCE

DEC. 8-9, 2020  
ZOOM

This conference offers unique opportunities for transportation professionals to share a broad array of knowledge and perspectives, discuss the latest technical information, review field reports in the area of hot-mix asphalt and explore flexible pavement advancements.

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



## PROGRAM

TUESDAY, DEC. 8

- 10:00 - 10:05 A.M.** Welcoming Remarks  
Imad Al-Qadi, Conference Chair, ICT/UIUC
- 10:05 - 10:25 A.M.** Illinois Department of Transportation  
Omer Osman, Secretary
- 10:25 - 10:45 A.M.** Illinois Federal Highway Administration  
Arlene Kocher, Division Administrator
- 10:45 - 11:05 A.M.** Illinois Tollway  
Paul Kovacs, Chief Engineer
- 11:05 - 11:35 A.M.** IDOT Hot-Mix Asphalt Tech Briefs  
Jim Trepanier, IDOT
- 11:35 - 11:45 A.M.** Awards
- BREAK**
- 2:00 - 2:30 P.M.** Plastics in Asphalt Pavements  
Amit Bhasin, UT Austin
- 2:30 - 3:00 P.M.** Rheology-Chemical Based Procedure to Evaluate Additives/Modifiers Used in Asphalt Binders for Performance Enhancements  
Kelly Morse, IDOT
- 3:00 - 4:00 P.M.** Workforce Development of Young Professionals: Investing in Our Future  
Tim Murphy, Murphy Pavement Technology, Inc.; Ryan Traficanto, TranSystems; and Sonia Martinez, Gallagher Asphalt Companies

WEDNESDAY, DEC. 9

- 10:00 - 10:30 A.M.** Redefining Value: Sustainability and Resilience  
Joseph Shacat, National Asphalt Pavement Association
- 10:30 - 11:00 A.M.** Three Right Turns to Pavement Preservation: (Treatment, Roadway, Timing)  
John Senger, IDOT
- 11:00 - 11:30 A.M.** Cold In-Place Recycling: When to Open and Overlay  
Imad Al-Qadi, ICT
- BREAK**
- 2:00 - 2:30 P.M.** Paver Segregation Process Review Preliminary Findings  
Brian Hill, IDOT
- 2:30 - 3:00 P.M.** "Goldilocks" ABR in HMA: Applying the Concept of "Just the Right Amount" to Balanced Mix Design  
George Houston, Baker; and Mike Schilke, IDOT
- 3:00 - 3:30 P.M.** Pavement Preservation and Rehabilitation Performance: Looking Back to Move Ahead  
LaDonna Rowden, IDOT

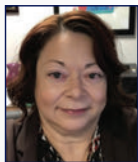
## SPEAKERS



**Imad Al-Qadi** is the Bliss Professor of Engineering at the University of Illinois at Urbana-Champaign. He also serves as Director of UIUC's Illinois Center for Transportation and the Smart Transportation Infrastructure Initiative as well as the Advanced Transportation Research and Engineering Laboratory. 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.



**Omer Osman's** role as Illinois Department of Transportation's Secretary reflects three decades of engineering and management experience. His vast experience in transportation includes advancing complex projects and assessing resources to inform funding and programmatic needs to create a multimodal system that supports economic development and travel for Illinois residents. The Sudan native studied civil engineering at Southern University and A & M College before earning a master's at Bradley University.



**Arlene Kocher** is the Federal Highway Administration's Illinois Division Administrator. Other capacities she previously served FHWA include the Minnesota Division Administrator, Utah Assistant Division Administrator and Transportation Engineer. Prior to joining FHWA, she gained valuable leadership experience in serving IDOT for 13 years. Kocher holds a bachelor's in general engineering from UIUC.



**Paul Kovacs** is the Chief Engineering Officer for the Illinois Tollway. Here he is responsible for the policies, practices and procedures of the Engineering Department, which oversees all design and construction operations on the agency's 294-mile system of roadways serving 1.6 million daily users in Northern Illinois. Currently, he is responsible for delivering the Illinois Tollway's 15-year, \$14 billion capital program, Move Illinois: The Illinois Tollway Driving the Future. Kovacs earned his bachelor's in civil engineering from UIUC. He is a registered professional engineer in Illinois and Michigan.



**Jim Trepanier** is the Engineer of Hot-Mix Asphalt, Aggregate and Chemical Tests at IDOT's Central Bureau of Materials. He is a licensed Professional Engineer and holds a bachelor's in civil engineering from Michigan Technological University.



**Amit Bhasin** is a Professor, Temple Foundation Endowed Fellow and Director of the Center for Transportation Research at The University of Texas at Austin's Department of Civil, Architectural and Environmental Engineering. He has an active research program in the area of pavements and materials supported by a range of private and public agencies from within and outside of the U.S. He is involved in several national and international organizations and committees pertaining to research in the area of pavements and materials.



**Kelly Morse** is Chief Chemist for IDOT's Central Bureau of Materials. Prior to that, she worked as the Analytical Chemistry Lab Supervisor in the Analytical Chemistry Laboratory at IDOT's Bureau of Materials and Physical Research. Morse received her bachelor's in chemistry from Illinois Wesleyan University.



**Tim Murphy** is the President of Murphy Pavement Technology, Inc. Before founding Murphy Pavement Technology, he worked for IDOT, The Asphalt Institute and Chicago Testing Laboratory. Murphy teaches numerous industry qualification/certification courses. He is also a board-certified member of the National Academy of Forensic Engineers.



**Ryan Traficanto** is the Materials Coordination Manager at TranSystems. He has a demonstrated history of working in construction management, contract documentation and inspection management. Traficanto's key roles in infrastructure projects include the Route 30 grade separation in Lynwood, 159th Street (Gouger Road to Will-Cook Road) and the M7 I-90 Tollway Maintenance Facility in Rockford. He holds a bachelor's in business administration from Roosevelt University and a master's in accounting from the University of Illinois-Chicago.



**Sonia Martinez** is the Employee Relations Director for Gallagher Asphalt Companies. Martinez manages recruiting, retention and professional development. She has nine years of experience throughout the company — from trucking dispatch, to executive assistant and currently human resources. Martinez holds a SHRM-CP.



**Joseph Shacat** serves as the technical lead for Emerald Eco-Label, the National Asphalt Pavement Association's Environmental Product Declaration program for asphalt mixtures. His role at NAPA also includes directing research projects related to asphalt pavement sustainability and resilience, educating the asphalt industry about sustainability and how to incorporate it into organizations and working with external stakeholders such as government agencies and green-rating.



**John Senger** is an Engineer of Pavement Technology at IDOT. Before joining the transportation agency's ranks, Senger was a consulting engineer, working on a wide range of projects. He earned his bachelor's in civil engineering from Bradley University.



**Brian Hill** is the Hot-Mix Asphalt Operations Engineer at IDOT's Central Bureau of Materials. He joined the department in July 2016. Hill earned his bachelor's, master's and doctoral degrees — all in civil engineering — from UIUC.



**George Houston** is a Construction Manager at Michael Baker International and is also a Licensed Engineer. He previously served as IDOT's Bureau Chief and Materials Engineer. Here he directed and coordinated District One's construction materials inspection program, testing material certification activities, and geotechnical and foundation analysis and investigations. Houston received his bachelor's in civil engineering from UIUC.



**Mike Schilke** is the Laboratory Supervisor of IDOT's District One Materials Laboratory. He previously worked in the private sector for more than 28 years, serving multiple Chicago-area consultant labs and general contractors. Eighteen of those years, he served as the Quality Control Manager for Central Blacktop. Most recently, he served as a Quality Control Manager at K-Five Construction overseeing multiple plant locations. Schilke holds a bachelor's degree in construction management from the University of Nebraska.



**LaDonna Rowden** serves as IDOT's Bureau Chief of Research and is a licensed Professional Engineer in Illinois. Here she has spent 28 years in various research positions working with pavement analysis, performance monitoring and policy development. Rowden earned a bachelor's in civil engineering from the South Dakota School of Mines and Technology.

## MODERATORS



**Dan Gallagher** is the Vice President and Chief Operating Officer at Gallagher Asphalt Corporation. In 1987, he began his career here as plant supervisor. Gallagher is actively involved in the industry, serving on the Illinois Asphalt Paving Association Board of Directors and previously holding the post of chairperson at the National Asphalt Pavement Association. He earned his bachelor's in mechanical engineering technology from Purdue University.




**Kevin Burke** is the Executive Vice President of the Illinois Asphalt Pavement Association. Prior to joining IAPA, Burke spent 20 years serving Illinois Department of Transportation in the Materials and Physical Research and Local Roads and Streets bureaus. He earned his bachelor's from Washington University in St. Louis and is a registered Professional Engineer in Illinois.



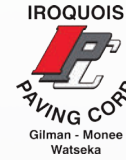
**John Lynch** is the Vice President of Iroquois Paving Corporation in Watseka, Illinois. For the last 35 years, he's held various roles here, including working on the paving crew and in the Quality Control Lab as well as qualifying estimation. He also serves on IAPA's Board of Directors and previously held the post of president.



**Ramez Hajj** is an assistant professor at the University of Illinois at Urbana-Champaign's Department of Civil and Environmental Engineering. He earned his doctoral and master's degrees at the University of Texas at Austin, and he obtained his bachelor's from Virginia Tech — all in civil engineering. Hajj's research focuses on chemical and physical characterization of asphalt materials and designing new construction materials for the next generation of flexible pavements.

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