

TUESDAY, MARCH 15

Visit With the Exhibitors

North & South Ballrooms, Purdue Memorial Union 8:00 AM–5:00 PM

Opening Session

Loeb Theater, Stewart Center 9:30–10:30 AM

Student Poster Session

Purdue Memorial Union 11:00 AM–1:50 PM



Technical Sessions Schedule 2022

	Bridges	Design/Construction		Elected Officials	Electric & Connected Vehicles	Local Agency	Maintenance & Operations	Multimodal Transportation	Pavements	Project Management/ Planning	Safety	Stormwater & Wetlands	Traffic Operations	
	STEW 206	LOEB Theater	STEW 302	STEW 306	STEW 311	STEW 279	STEW 218 CD	STEW 218 AB	STEW 313	STEW 214 AB	Fowler Hall	STEW 214 CD	STEW 278	STEW 310
11:00–11:50 AM	1. INDOT Bridge Scour Policy Update and Hydraulics Request Application	7. Technology in Ready Mix Concrete: Admixtures to Hardware				25. AVs for Travelers With Disabilities: A Demonstration of the EASI RIDER Prototype	30. How to Conduct a Sidewalk Condition Survey					51. Making Streets Complete and Inclusive		
12:00–12:50 PM	2. Design and Construction of an Innovative Non-Fracture Critical Steel Straddle Bent			16. Get In, Get Out, and Stay Out! Maintenance of Traffic for Long-Life PCCP Projects									56. New IDM Chapter 204: "Post-Construction Stormwater BMPs"	
1:00–1:50 PM	3. Bridge Deck Repair and Preservation	8. Lessons Learned: US-150 Over Kanie Creek Bridge Replacement	12. Innovative Engineering for Roundabouts and Intersections	17. Clear Path 465 Project Update	21. The Carrot or the Stick? Employee Engagement	26. Challenges and Opportunities for Electric Vehicles in Indiana	31. 96th and Keystone Interchange Construction: An LPA Project	35. Aerial Lidar Makes the Grade	39. Overcoming R/W Challenges in the Bus Lane	43. Rehabilitation of I-70 Composite Pavement Using Peel and Stick Strip Membrane and Geosynthetic Interlayer Paving Fabric	47. Rebuilding Our Streets: A 10-Year Improvement Plan	52. Survey of Contrast Pavement Markings and Safety Benefits	57. Post Installation Inspection for All Storm Drain Pipes	61. INDOT ITS: Past, Present, and Future
2:00–2:50 PM	4. Built-Up Press-Brake-Formed Tub Girders: Design and Analysis	9. Construction Practices and Bridge Deck Cracking	13. River Bank Stabilization and Interchange Signing	18. INDOT Subgrade Treatment (Section 207)	22. Good Roads Require Good Drainage	27. Electric Vehicle Analytics: EV and Charging Station Usage in Indiana, Ohio, and Pennsylvania	32. Utility Coordination for Municipalities	36. LiDAR Mapping of Terrain and Stockpiles	40. Kentucky Statewide Corridor Plan: Linking Kentucky	44. Void Reducing Asphalt Membrane Benefits at Centerline Joints	48. Utility Coordination: Rules and Regulations	53. Indiana Operation Lifesaver: How You Can Help Stop Railroad Trespassing Fatalities	58. INDOT Construction Stormwater Training	62. I-465 and FlexRoad TSMO Projects
3:00–3:50 PM	5. Fundamentals and Strategies for Moving Steel Trusses	10. Sewer Interceptor Transformed Into a Transportation Rehabilitation Project	14. Every Interchange Has a Story	19. INDOT QC/QA for Soil Fill Sections (218-R-576)	23. Public Bidding and Public Purchasing Basics	28. ODOT and INDOT I-70 Truck Automation Corridor Project	33. Traffic and Accident Data in Context	37. Concrete Restoration and Maintenance	41. RAIL: Yesterday, Today, and Tomorrow in Indiana	45. Enhanced Approach for Full-Depth Asphalt Pavement Structural Evaluation	49. What Contractors Wish We Knew About Utilities	54. Improvements in Highway Lighting	59. Is Your Street Department Compliant With MS4?	63. Pavement Marking Updates
4:00–4:50 PM	6. The Eel River Bridge: A Historic Bridge Gets Relocated	11. MSE Wall Performance Issues and Remedies	15. Implementing Digital Twins for Design Review	20. Contract Special Provisions	24. Local Transportation Funding: Infrastructure Bill, Federal Funding, and Community Crossings Program Updates	29. LiDAR for Evaluating Lane Marking Reflectivity	34. Qualifications-Based Selection for Better Projects and Better Value	38. Floating Car Data as Input Source for Road Maintenance	42. Converting a Busy Street Into a Pedestrian Zone	46. Comprehensive Tools for Automated Creation of Patching Tables	50. Managing Risk in Projects Large and Small	55. Pedestrian Safety Management in Indiana	60. Drainage Considerations and Stormwater Structure Rehabilitation	64. INDOT Greenfield District Creates a Traffic Project



View full Road School technical program at <https://purdue.pub/rs2022-program>

WEDNESDAY, MARCH 16

Visit With the Exhibitors

North & South Ballrooms, Purdue Memorial Union 8:00 AM–5:00 PM

95B. Indiana Statutes and Rules for Professional Engineering Licensure

Loeb Theater, Stewart Center 8:00–8:50 AM

96B. Ethics Case Histories: A Comparison of Code Provisions

Loeb Theater, Stewart Center 9:00–9:50 AM

	Aviation	Bridges	Design/Construction		Finance/ Administration	Human Capital/ Leadership	Local Agency	Multimodal Transportation	Pavements	Project Management/Planning	Public Relations/ Communications	Public Safety	Safety	Stormwater & Wetlands	Traffic Operations	Winter Weather Operations			
	STEW 202	STEW 206	Loeb Theater	STEW 302	STEW 306	STEW 311	STEW 218 AB	STEW 218 CD	STEW 313	STEW 214 AB	Fowler Hall	STEW 306	STEW 279	STEW 279	STEW 214 CD	STEW 278	STEW 310	STEW 278	
8:00–8:50 AM	65. The Evolution of the Smart Runway	72. Hydrotex Articulating Block: Perfect for Bridge Scour Protection		84. Managing Risks When Letting With Exceptions	92. Automated Pile Driving Data Acquisition Devices	97. Federal Project Management: How to Prevent Ineligibility	103. Using EBM to Help Women Persist in Engineering	109. Establishment of Road Right-of-Way	117. Monon Greenway Carmel, IN: Before and After	123. Real-Time Concrete Strength Sensors for Infrastructure Monitoring	130. Electrifying Freight		141. Changing Interchanges: Educating Hoosiers on Alternative Designs		150. Do You Have a Safe System?	158. Learning the Ropes of Stormwater Management	162. Accommodating Rapid Development in Design Level Forecast		
9:00–9:50 AM	66. Updates on Huntingburg and Paoli Airport Projects	73. SME-PS Concrete Infrastructure Preservation Program		85. Lessons Learned From the New INDOT Aesthetic Permitting Process	93. Digital Design Data for Asset Collection	98. Evolutions in Innovative Transportation Funding	104. Working Our Way to Job Satisfaction	110. Panel Discussion on Right-of-Way Management	118. Active Transportation in Indiana	124. Increasing Roadway Performance With Geogrids	131. 80/94 FlexRoad: INDOT's First PEL Study		142. Big Data Applications: Innovative Tools for Public Involvement		151. INDOT Work Zone Safety Update	159. Missed That! Roadway Drainage Lessons	163. Flashing Yellow Arrows		
10:00–10:50 AM	67. Utilizing UAS to Mitigate Wildlife Strikes to Aviation	74. An Introduction to Accelerated Bridge Construction With Precast Concrete		86. North Split Project Update	94. INDOT Protection of Karst Features During Project Development and Construction	99. Contractor Prequalification: Major Developments (2020–2022)	105. Women of the I-69 Corridor	111. Emotional Intelligence and Conflict Resolution	119. Conducting a Pedestrian Safety and Walkability Program	125. INDOT PCCP Specification Improvements: Better Performance and Durability	132. Cadaver Dogs and Unmarked Burials on Transportation Projects		143. Community Engagement During COVID-19		152. How About RoadHAT 4? Best Practices and Updates From RoadHAT 3	160. A Decade Later: Wetland and Stream Mitigation Results	164. Lessons Learned: Indianapolis Two-Way Conversion Study		
11:00–11:50 AM		75. Brent Spence Bridge Emergency Fire Repair		87. Racing to the I-69 Finish Line				112. Recouping Costs From Bridge Damage					144. Transparency in Transportation: Mitigating Social and Political Risk		153. Recent Safety Program Changes for Everyone	161. Indiana DNR's Stream and Wetland Mitigation Program			
12:00–12:50 PM													145. Incident Response After Action Reviews Using Unmanned Aerial Systems (UAS)					167. Future of Mobile Observation Data Technologies	
1:00–1:50 PM	68. Airport CSPP: Maintaining Airport Operational Safety During Construction	76. Complex Bridge Load Rating of I-65 Over SR 46	80. Integrating Safety Analysis Into Scoping and Design	88. SR 37 Hamilton County: Vision to Construction				100. In-Depth Road Funding (Highway Funding and Asset Management)	106. Generational Differences in the Workplace: Connecting Teams	113. White County Highway Facility	120. Road Buffets: Proving Road Diets Are for Everyone	126. Improving Your Chip and Sealing Procedures	133. Project Delivery Methods	137. It Takes a Village: Contract Administration Letting Preparation		146. 2022 Developments in Emergency Vehicle Traffic Signal Preemption	154. TScan: A Tool for Rapid Safety Evaluation	165. Unforeseen Covid Impacts on Indianapolis Traffic	168. Using Liquids in Winter Maintenance
2:00–2:50 PM	69. Airport Pavements	77. Bridge Load Rating for Overloaded Permit Vehicle	81. Benefits of Online, Collaborative Plan Review	89. Does That Utility Really Need to Move?					107. Public Speaking for Engineers and Local Officials	114. How Locals Take Control of Their Federal Aid Projects	121. Building a Network: Increasing Bicycle Infrastructure, Utilization, and Safety	127. Paving to the Finish Line: I-69 Section 6	134. Proactively Upgrading Aging Infrastructure for Multimodal Corridor Renewal	138. Evolving INDOT's 20-Year Plans	147. Importance of Proactive Safety Analysis for Corridor Planning	155. Analyzing Pedestrian Crash Data Trends and Implementing Countermeasures	166. Perspectives on Past and Present MUTCDs	169. Maturing Your Winter Operations	
3:00–3:50 PM	70. Aviation Research	78. Emergency Repair of the I-40 Hernando de Soto	82. Performance Engineered Mix Designs	90. Record-Breaking Trenchless Tunneling Success Demonstrates Value on SR-37				101. The Future of Transportation Funding	108. Reducing Workforce Attrition	115. Temporary Traffic Control for Local Roads: Work Zones 101	122. Complete Streets at Varying Scales: Challenges and Opportunities	128. Virtual Reality for Pavement Preservation Treatment Training	135. Streamlining Project Development Through Planning and Environmental Linkages	139. Integrating Design, ROW, and Utility Coordination for Improved Reliability	148. Trends and Solutions for Bicycle and Pedestrian Safety	156. Safety for the Most Vulnerable		170. NWS–Winter Weather Science	
4:00–4:50 PM	71. Integrating Advanced Air Mobility Into Airports	79. Twin Tub Girder Bridge Retrofits for System Redundancy	83. Adverse Effect? Dealing With Forgotten MOA Commitments	91. I-270 North Design-Build: Safety and Mobility Improvements				102. Utilizing IC 5-23 (Build Operate Transfer) for Local Infrastructure Projects		116. Temporary Traffic Control for Local Roads: Managing the Jobsite		129. Comparing Decision-Making Methods for Pavement Preservation Programming	136. Improving Document Retention Through Data Management Dashboards	140. Ready Mix Concrete 101	149. Fire Station Siting Study	157. Was That Crash Modification Factor Accurate?		171. Using RWIS Data for Winter Maintenance Decision Support	