

*Herb McDowell, Idaho DOT*

*Bill Oliva, Wisconsin DOT*

*WBPP Chair*

*MWBPP Chair*

## *Meeting Agenda*

*2021 Joint WBPP/MWBPP Meeting*

*December 7 - 9, 2021*

*Renaissance Phoenix/Glendale Hotel*

*Glendale, AZ*

## 2021 Joint WBPP / MWBPP Regional Meeting

### Monday, December 6 - Registration and Exhibit Setup

<b>Registration</b>	1:00 PM - 5:00 PM	Meeting Registration Desk Open
<b>Exhibits</b>	8:00 AM - 7:00 PM	Exhibit Hall Open for Booth Setup

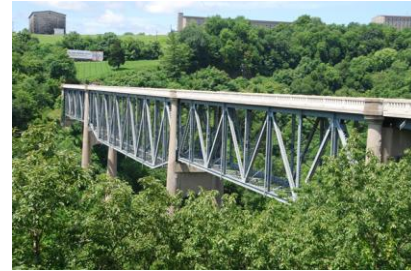
### Tuesday, December 7 - Plenary Session & "A" Sessions

7:00 AM	8:00 AM	New Member Orientation Breakfast ( <u>Invitation Only</u> ): Welcome & Introduction to the TSP-2 Program in Cira Ballroom		
8:00 AM	10:05 AM	<b>Session 1: Opening Plenary Session</b> Moderators: Herb McDowell, Idaho DOT & Bill Oliva, Wisconsin DOT Location: <b>Solana Ballroom</b>		
8:00 AM	8:10 AM	Welcome by Arizona DOT	David Eberhart	State Bridge Engineer, Arizona DOT
8:10 AM	8:25 AM	AASHTO T-9 Bridge Preservation Update	Rebecca Nix	Utah DOT
8:25 AM	8:50 AM	Ten Years of Progress in Bridge Preservation in Washington State	Chris Keegan	NCPP @ MSU
8:50 AM	9:15 AM	Arizona DOT Deck Preservation Treatments	David Benton	Arizona DOT
9:15 AM	9:40 AM	Bridging Kentucky: Creating Value through Innovative Program Approaches	Royce Meredith Tony Hunley	Kentucky Trans Cabinet Stantec Consulting Services
9:40 AM	10:05 AM	Brent Spence Bridge Fire	Josh Rogers	Kentucky Trans Cabinet
10:05 AM	10:45 AM	AM Break, Networking & Industry Displays in the Renaissance Media Center		
10:45 AM	12:00 PM	<b>Session 2A Theme: Bridge Asset Management</b> Moderator: Natasha Butler, Colorado DOT Location: <b>Solana Ballroom</b>		
10:45 AM	11:10 AM	Updating NDDOT's Bridge Management / Inspection / Preservation Programs	Nancy Huether	North Dakota DOT
11:10 AM	11:35 AM	Updating MnDOT's Bridge Worker Formula	Sarah Sondag	Minnesota DOT
11:35 AM	12:00 PM	Process of Getting a Programmatic Agreement for Historic Bridges	David Miller	Louisiana DOTD
12:00 PM	1:00 PM	Lunch, Networking & Industry Displays in the Renaissance Media Center		
1:00 PM	3:05 PM	<b>Session 3A Theme: Repair/Preservation of Steel Bridges</b> Moderator: Mike Brown, WSP, USA Location: <b>Solana Ballroom</b>		
1:00 PM	1:25 PM	Replacing a 1931 Double Bascule Lift Span Control System	Andrew Blower	Oregon DOT
1:25 PM	1:50 PM	Rehabilitation of Historical Steel Bridge no. 321 over Rio Grande of Manati in Ciales, PR	Alvin Rodriguez	CMA Architects & Engineers
1:50 PM	2:15 PM	Incorporating Steel Repairs into Large Scale Bridge Painting Projects	Tony Serdenes	GPI
2:15 PM	2:40 PM	I-40 Hernando DeSoto Bridge Repairs	Aaron Stover	Michael Baker International
2:40 PM	3:05 PM	Heat Straightening of a Bridge Multiple Times	Carl Hendricks	Whatcom County, Washington
3:05 PM	3:35 PM	PM Break, Networking & Industry Displays in the Renaissance Media Center		
3:35 PM	5:15 PM	<b>Session 4A Theme: Preservation of Bridge Decks</b> Moderator: Richard Dunne, GPI Location: <b>Solana Ballroom</b>		
3:35 PM	4:00 PM	ITD Project Report: How to Waterproof and Protect Your Bridge for Decades	Mario Baggio	Alchemco
4:00 PM	4:25 PM	Penetrating Sealer Performance Criteria on Bridges - A New Perspective	John T. Kevern	University of Missouri - Kansas City
4:25 PM	4:50 PM	Epoxy Injection of Delaminations in Bridge Decks	Jason DeRuyver	Michigan DOT
4:50 PM	5:15 PM	Bridge Deck Hydrodemolition Case Studies	Pat Martens	Hydro-Technologies, Inc.
5:30 PM	7:00 PM	Meeting Reception, Networking & Industry Displays in the Renaissance Media Center		
		Dinner On Your Own		2



**Burro Creek NB Bridge**  
**US 93 over Burro Creek**  
 ~ 60 Miles North of Wickenburg, Arizona  
 Built in 2006

**Tyrone Bridge**  
**US 62 over Kentucky River**  
 ~ 2.5 Miles East of Lawrenceburg, KY  
 Built in 1932



<b>2021 Joint WBPP / MWBPP Regional Meeting</b>				
<b>Tuesday, December 7 - "B" Sessions</b>				
<b>10:05 AM</b>	<b>10:45 AM</b>	<b>AM Break, Networking &amp; Industry Displays in the Renaissance Media Center</b>		
<b>10:45 AM</b>	<b>12:00 PM</b>	<b>Session 2B Theme: Strengthening of Bridges</b> Moderator: Brandon Henning, Nevada DOT Location: <b>Aurora Ballroom</b>		
10:45 AM	11:10 AM	Strengthening of a PT Box Girder Bridge- Extending the Life	Travis Kinney	David Evans and Associates
11:10 AM	11:35 AM	Advancements in Applications of Titanium Alloy Bars for Bridge Rehabilitation and Preservation	Chris Higgins	Oregon State U.
11:35 AM	12:00 PM	Making CFRP Work for Bridge Rehabilitation	William Downes	Arizona DOT
<b>12:00 PM</b>	<b>1:00 PM</b>	<b>Lunch, Networking &amp; Industry Displays in the Renaissance Media Center</b>		
<b>1:00 PM</b>	<b>3:05 PM</b>	<b>Session 3B Theme: Bridge Preservation by Local Agencies</b> Moderator: Travis Kinney, David Evans and Associates Location: <b>Aurora Ballroom</b>		
1:00 PM	1:25 PM	Local Agency Bridge Preservation / FHWA BPETG Case Study	Gregg Freeman	Kwikbond Polymers
1:25 PM	1:50 PM	Bridge Preservation at the Maricopa County Department of Transportation	Jimmy Camp & Ryan Jones	Maricopa County DOT, Arizona
1:50 PM	2:15 PM	Data Driven Asset Management	Michael Marshall	Stantec Consulting Services
2:15 PM	2:40 PM	Strengthening of Local Bridges in Wisconsin to Remove Load Postings	Bill Oliva	Wisconsin DOT
2:40 PM	3:05 PM	Harrison County Indiana Bridge Preservation Program	Mel Quickmiller	Harrison County Highway Department, Indiana
<b>3:05 PM</b>	<b>3:35 PM</b>	<b>PM Break, Networking &amp; Industry Displays in the Renaissance Media Center</b>		
<b>3:35 PM</b>	<b>5:15 PM</b>	<b>Session 4B Theme: Stuff Too Good to Miss</b> 😊 Moderator: Pat Connor, Purdue University Location: <b>Aurora Ballroom</b>		
3:35 PM	4:00 PM	Bridge Maintenance Performance Measures	Sarah Sondag	Minnesota DOT
4:00 PM	4:25 PM	Nondestructive Evaluation of PT Ducts in a Segmental Box Girder Bridge– The West Seattle High Bridge NDE	Shane Boone	BDI
4:25 PM	4:50 PM	Pile Bent Strengthening of In-Service Bridges	Nick Haltvick	Minnesota DOT
4:50 PM	5:15 PM	Preservation and Asset Management at Colorado DOT	Natasha Butler	Colorado DOT
<b>5:30 PM</b>	<b>7:00 PM</b>	<b>Meeting Reception, Networking &amp; Industry Displays in the Renaissance Media Center</b>		
		Dinner On Your Own		3

Wednesday, December 8 - "A" Sessions				
7:00 AM	8:00 AM	Breakfast, Networking & Industry Displays in the Renaissance Media Center		
8:00 AM	10:30 AM	<b>Session 5A Theme: Preservation of Bridge Decks</b> Moderator: Sarah Sondag, MnDOT Location: <b>Solana Ballroom</b>		
8:00 AM	8:25 AM	Wisconsin Deck Protocols	Basak Bektas	U. Minnesota, Mankato
8:25 AM	8:50 AM	Deck Deterioration Modelling Report	Bill Oliva	Wisconsin DOT
8:50 AM	9:15 AM	Utah DOT Research to Develop Bridge Deck Chloride Testing Protocols	Becky Nix & Mike Brown	Utah DOT WSP USA
9:15 AM	9:40 AM	Evaluation of Deck Sealer Effectiveness: Bridge Deck Sealant Monitor	Glenn Washer	University of Missouri - Columbia
9:40 AM	10:05 AM	Bridge Deck Preservation with Ultra-High Performance Concrete Overlays	Peter Seibert & Gilbert Brindley	UHPC Solutions North America
10:05 AM	10:30 AM	Correcting Grade on Structures using Epoxy Polymer Concrete	Ray Breer	e-chem
10:30 AM	11:00 AM	AM Break, Networking & Industry Displays in the Renaissance Media Center		
11:00 AM	12:00 PM	<b>Session 6: Peer Exchange Breakouts</b> Topic Location Discussion Leaders		
		Best Practices for Extension of Bridge Service Life	<b>Solana F</b>	Travis Kinney, DEA Pat Connor, U. of Purdue
		Bridge Scour (Mitigation, Contracting for Scour Mitigation Work)	<b>Solana G</b>	Bill Oliva, WISDOT & Herb McDowell, IDOT
		Concrete Repairs & Preservation	<b>Aurora A</b>	Andrew Blower, Oregon DOT & Bobby Scarpitto, Kwikbond
12:00 PM	1:00 PM	Lunch, Networking & Industry Displays in the Renaissance Media Center		
1:00 PM	3:05 PM	<b>Session 7A Theme: Corrosion Protection &amp; Mitigation</b> Moderator: Gregg Freeman, Kwikbond Polymers Location: <b>Solana Ballroom</b>		
1:00 PM	1:25 PM	NCHRP Duplex Coating Research Project 12-117	Peter Ault	KTA-Tator/Elzly Technology
1:25 PM	1:50 PM	International Bridge Preservation – HRCSA One Coat Paint System	Karl Hansen	International Bridge Authority
1:50 PM	2:15 PM	The Success of Two Thirty-year-old Cathodic Protection Systems	Paul Vinik	GPI
2:15 PM	2:40 PM	Replacing a Zinc Impressed Current Anode On a 1932 Coastal Concrete Arch	Andrew Blower	Oregon DOT
2:40 PM	3:05 PM	Findings of a 15-year Follow Up on Use of Surface Anodes to Deteriorated Pier Caps.	Brian Pailles	Vector Corroison Services
3:05 PM	3:35 PM	PM Break, Networking & Industry Displays in the Renaissance Media Center		
3:35 PM	5:15 PM	<b>Session 8A Theme: Inspection of Bridges</b> Moderator: Andrew Blower, Oregon DOT Location: <b>Solana Ballroom</b>		
3:35 PM	4:00 PM	Implementation Strategies for Risk-Based Inspection	Glenn Washer	University of Missouri - Columbia
4:00 PM	4:25 PM	ITD Project Report - Transparent SIP Deck Forms	David Brodowski	TrueTech Bridge
4:25 PM	4:50 PM	ITD Project Report - Preservation of Concrete Decks Using Silane Water Repellents	Tim Woolery	Adv. Chem. Tech.
4:50 PM	5:15 PM	ITD Project Report - SME-PS Durability Enhancers for Bridge Deck Preservation	Paul Imbrock	Indiana Soybean Alliance
Free Time	5:15 PM	Free Time - Dinner On Your Own		4

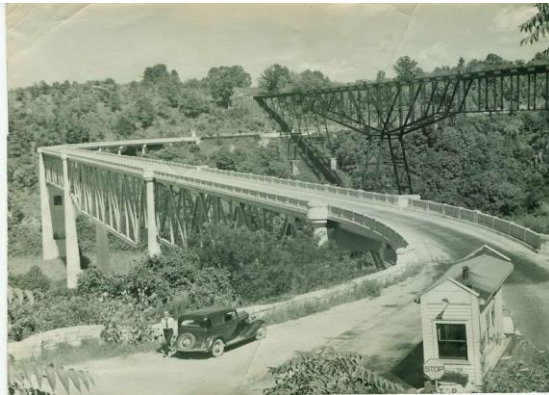
Wednesday, December 8 - "B" Sessions														
7:00 AM	8:00 AM	Breakfast, Networking & Industry Displays in the Renaissance Media Center												
8:00 AM	10:30 AM	<p align="center"><b>Session 5B</b> Theme: Load Ratings, Posting Needs &amp; More</p> <p align="center">Moderator: Matt Harlan, DEA, Inc.</p> <p align="center">Location: <b>Aurora Ballroom</b></p>												
8:00 AM	8:25 AM	Fatigue Retrofits for Two Suspension Bridges in the Patagonia Region of Chile   Christopher Dyck   COWI North America Ltd.												
8:25 AM	8:50 AM	Load Ratings, Bridge Postings, and Emergency Vehicles in Oregon   Matt Harlan   David Evans and Associates												
8:50 AM	9:15 AM	Fast Act Emergency Vehicle (EV3) Load Rating   Walt Peters   Oklahoma DOT												
9:15 AM	10:05 AM	<p align="center"><b>Panel Session: Impact of Updates to Load Ratings On Posting and Strengthening Needs</b></p> <p align="center">Moderator: Matt Harlan, DEA, Inc</p>												
10:05 AM	10:30 AM	Panelists: Walt Peters, OKDOT   Bill Oliva, WisDOT   Roman Peralta, WsDOT												
10:30 AM	11:00 AM	AM Break, Networking & Industry Displays in the Renaissance Media Center												
11:00 AM	12:00 PM	<p align="center"><b>Session 6: Peer Exchange Breakouts</b></p> <table border="1"> <thead> <tr> <th>Topic</th> <th>Room</th> <th>Discussion Leaders</th> </tr> </thead> <tbody> <tr> <td>Bridge Joints</td> <td><b>Solana I</b></td> <td>David Benton (AZDOT) &amp; Andy Castillo, Sika/Emseal</td> </tr> <tr> <td>Preservation of Concrete Decks</td> <td><b>Solana H</b></td> <td>Sarah Wilson, Illinois DOT &amp; Michael Brown (WSP USA)</td> </tr> <tr> <td>Steel Repairs &amp; Preservation</td> <td><b>Aurora C</b></td> <td>Nancy Huether, NDDOT &amp; Aaron Stover, Michael Baker International</td> </tr> </tbody> </table>	Topic	Room	Discussion Leaders	Bridge Joints	<b>Solana I</b>	David Benton (AZDOT) & Andy Castillo, Sika/Emseal	Preservation of Concrete Decks	<b>Solana H</b>	Sarah Wilson, Illinois DOT & Michael Brown (WSP USA)	Steel Repairs & Preservation	<b>Aurora C</b>	Nancy Huether, NDDOT & Aaron Stover, Michael Baker International
Topic	Room	Discussion Leaders												
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Preservation of Concrete Decks	<b>Solana H</b>	Sarah Wilson, Illinois DOT & Michael Brown (WSP USA)												
Steel Repairs & Preservation	<b>Aurora C</b>	Nancy Huether, NDDOT & Aaron Stover, Michael Baker International												
12:00 PM	1:00 PM	Lunch, Networking & Industry Displays in the Renaissance Media Center												
1:00 PM	3:05 PM	<p align="center"><b>Session 7B</b> Theme: Using Inspection Data to Support Preservation Decision-making</p> <p align="center">Moderator: David Bohnsack, Wisconsin DOT</p> <p align="center">Location: <b>Aurora Ballroom</b></p>												
1:00 PM	1:25 PM	Enhanced Pier Cap Inspections: Inspection for Analysis   Dustin Thomas   Minnesota DOT												
1:25 PM	1:50 PM	Inspection of Wisconsin Decks Using Thermography   Philip Meinel   Wisconsin DOT												
1:50 PM	2:15 PM	Regional Working Group Update: MWBPP Bridge Inspection Program Managers   Nancy Huether   North Dakota DOT												
2:15 PM	2:40 PM	<p align="center"><b>Panel Session: Using Inspection Data to Support Preservation Decision-making</b></p> <p align="center">Moderator: David Bohnsack, Wisconsin DOT</p>												
2:40 PM	3:05 PM	Panelists: Dustin Thomas, MnDOT   Philip Meinel, WisDOT   Hooman Parvardeh, Bridge Intelligence												
3:05 PM	3:35 PM	PM Break, Networking & Industry Displays in the Renaissance Media Center												
3:35 PM	5:15 PM	<p align="center"><b>Session 8B</b> Theme: Preservation - Bridge Joints &amp; Beam Ends</p> <p align="center">Moderator: Bill Oliva, Wisconsin DOT</p> <p align="center">Location: <b>Aurora Ballroom</b></p>												
3:35 PM	4:00 PM	NCHRP Scan - Bridge Ends & Approach Slabs   Jason DeRuyver   Michigan DOT												
4:00 PM	4:25 PM	UHPC in Practice – Corroded Steel Repair   Graham Bettis   Texas DOT												
4:25 PM	4:50 PM	Joint Elimination Through Pier Integration – Conversion of 5 Simple Spans to One Continuous Deck Over 4 Piers   Christopher Dyck   COWI North America Ltd.												
4:50 PM	5:15 PM	Link Slabs for Joint Elimination   Richard Dunne   GPI												
Free Time	5:15 PM	Free Time - Dinner On Your Own												

Thursday, December 9 - Session 9A				
7:00 AM	8:00 AM	Breakfast, Networking & Industry Displays in the Renaissance Media Center		
8:00 AM	9:40 AM	<b>Session 9A Theme: Innovative Inspection Technology</b> Moderator: Nancy Huether, North Dakota DOT Location: <b>Solana Ballroom</b>		
8:00 AM	8:25 AM	Advanced Reality Modeling and Augmented Reality Technology Applied to a Stone Arch Bridge Rehabilitation Project in Minneapolis	Barritt Lovelace	Collins Engineers
8:25 AM	8:50 AM	Drone Photogrammetry & Multi-Beam Sonar Merging for Scour Critical Bridges	Michael J. Banasiak	Collins Engineers
8:50 AM	9:15 AM	U manned Aerial Systems for Bridge Inspection	Brandon Henning	Nevada DOT
9:15 AM	9:40 AM	SHM for Bridge Scour Monitoring	Benoit Kroely	Sixsense-Group
9:40 AM	10:15 AM	Break, Networking & Industry Displays in the Renaissance Media Center		
Thursday, December 9 - Closing Plenary Session, Business Meetings				
10:15 AM	12:00 PM	<b>Session 10 Panel Session: Deploying Innovative Inspection Technology</b> Moderator: Chad Skrocki, Michigan DOT Location: <b>Solana Ballroom</b>		
10:15 AM	11:00 AM	Panelists: Matt Kurle NDDOT	Andrew Blower, ODOT	TBA
11:00 AM	11:10 AM	Closing Remarks	<b>Solana Ballroom</b>	Bill Oliva, WISDOT & Herb McDowell, IDOT
11:15 AM	12:00 PM	WBPP Business Meeting	<b>Solana Ballroom</b>	Herb McDowell, IDOT
11:15 AM	12:00 PM	MWBPP Business Meeting	<b>Aurora Ballroom A &amp; B</b>	Bill Oliva, WisDOT
11:15 AM	12:00 PM	Industry Business Meeting	<b>Aurora Ballroom C &amp; D</b>	TBD
	12:00 PM	Meeting Adjourned		

THANKS for PARTICIPATING in the 2021 JOINT WBPP/MWBPP MEETING

SAFE TRAVELS!  
&  
HAPPY HOLIDAYS!

Thursday, December 9 - "B" Sessions				
7:00 AM	8:00 AM	Breakfast, Networking & Industry Displays in the Renaissance Media Center		
8:00 AM	9:40 AM	Session 9B Theme: Inspection & Data Collection		
		Moderator: Drew Storey, The Kercher Group		
		Location: Aurora Ballroom		
8:00 AM	8:25 AM	New No-Login Cloud-Based LTBP InfoBridge Web Portal: A Platform to Easily Query, Visualize, and Analyze Bridge Information	Jean Nehme	FHWA Turner-Fairbank Highway Research Center
8:25 AM	8:50 AM	Dots Can Save Time & Increase Efficiency by Using Tablet-Based Inspection Platforms	Hooman Parvardeh	Bridge Intelligence
8:50 AM	9:15 AM	Wireless Structural Monitoring Provides Asset Mgmt for Bridge Preservation	Geoff Korfin	Resensys
9:15 AM	9:40 AM	Identification of Hidden Deficiencies in Timber Bridge Elements	Jordan Furlan	Collins Engineers
9:40 AM	10:15 AM	Break, Networking & Industry Displays in the Renaissance Media Center		



Tyrone Bridge  
 US 62 over Kentucky River  
 Anderson County/Woodford County Line  
 Built in 1932

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