



Midwest Bridge Preservation Partnership

Agenda – Monthly Teleconference Tuesday, October 4, 2022

Business Meeting: 12:30 – 1:00 PM Central

Technical Session: 1:00 – 2:00 PM Central

12:30 PM – BUSINESS MEETING

1. Midwest Bridge Preservation Partnership Regional Meeting

- a.) Agenda - Moderators and Panel Members. **Final confirmation on Moderators, Panel Members & Note Takers, last minute adjustments to the agenda to accommodate moderators and discussion about conference. Less than a month away!**

2. Open Discussion

- a.) Monthly Meeting Topics/Suggestions
 - i. **Consider Emily Sonar Remotely Operated Boat, which Michigan uses - <https://www.emilyrobot.com/sonar>**
- b.) Updates **Nancy Huether noted that Chris Keegan will be retiring this month; TSP2 has hired a new person for the Pavement side who will be helping out on the Bridge side until Chris's position is filled – Todd Shields, who spent 28 years at Indiana DOT.**

1:00 PM - TECHNICAL SESSION

1. Approval of August Minutes, Review of September Minutes

- a.) **August Meeting Minutes – Approved. (Motion J. DeRuyver ;2nd D. Storey)**
- b.) **September Meeting Minutes – Approved (Motion D. Storey; 2nd Jim Leaden), pending two updates –**
 - i. **Fix Link to WBPP Annual Meeting PDFs [2022 WBPP Agenda FINAL 7-28-22.pdf \(s3.us-east-1.amazonaws.com\)](https://s3.us-east-1.amazonaws.com/2022WBPPAgendaFINAL7-28-22.pdf)**
 - ii. **Date on attendance chart..**

2. SEBPP Regional Meeting Report Out (Sarah Wilson, Illinois DOT)

- a.) **See the end of the meeting minutes for the pdf of the presentation.**
- b.) **Here's the link to the PDF's from the SEBPP : <http://pavementvideo.s3.us-east-1.amazonaws.com/2022SEBPP-Raleigh-NC/2022-SEBPP-Raleigh-NC-Presentation-TOC.pdf>**
- c.) **Possible future topics to be considered in some way for MWBPP –**
 - i. **Secession Planning for DOTs. Intentional cross training.**
 - ii. **The Concrete Bridge Engineering Institute in Austin Tx**

- iii. **S-BRITE Center at Purdue in Indiana**
- iv. **Major Bridge Preservation Initiatives – what is your state doing for the larger bridges, anything special? Definition of Larger bridges, and specific maintenance or design details being used?**
- v. **Ancillary Structures – do you inventory or inspect any of them? If so, what procedures, intervals, etc do you use? (This could also be a topic for the Inspection Group.)**
- vi. **UHPC presentation. There is a FHWA EDC initiative, and some states are starting. This covers both overlays / link slabs to eliminate joints / beam end retrofits.**

3. MWBPP Regional Meeting (October 25-27 in Lexington, KY)

- a.) Registration **Final Date October 10th.**
- b.) Draft Agenda **See the website for the current draft -**
<https://tsp2bridge.pavementpreservation.org/midwest-mwbpp/annual-meetings/2022-mwbpp-lexington-kentucky/>
- c.) **Special Note: the agenda for the annual meeting will not be printed – it will be emailed out prior to the meeting and available electronically. If you need a hard copy, please print prior to travel.**
- d.) **If anyone hasn't attended conference before and wants to attend the new member lunch on October 25th, let Nancy Huether know – this will be noted in the email with the conference agenda.**

4. Upcoming Meetings

- a.) **Regional Meeting Agenda Planning: Wednesday, October 19 at 1 PM Central** **Final Teleconference prior to meeting!**
- b.) **Regional Meeting: Tuesday October 25 – Thursday October 27** **See you in Lexington KY.**
- c.) **Monthly Technical Session: ~~November 4~~ December 6 at 1:00 PM** **November Teleconference cancelled since it's very close to annual meeting.**

5. Other Quick Notes:

- a.) **Phil Meinel - Bridge Element Pooled Fund Study – Final comments due by October 7th.**
- b.) **Sarah Sondag: National Bridge Deck Working Group will have a presentation by Hoda Azari FHWA NDE Research Program Manager, on October 20th. If you'd like to attend, contact Sarah Sondag for the link.**
- c.) **Nancy Huether - TSP2 New Hire in the Pavement Preservation side will be assisting the Bridge Preservation side after Chris Keegan's retirement – Todd Shields.**

Attendance Chart – MWBPP Teleconference October 4th, 2022

NCPP Representatives			Industry Representatives		
Darlene Lane	NCPP	☐	Tim Woolery	Adv. Chem. Tech.	☒
Nancy Huether	NCPP	☒	Brad Ehle	Adv. Chem. Tech.	☐
Chris Keegan	NCPP	☐	Lorella Angelini	Angelini Consulting	☒
Bouzid Choubane,	NCPP	☐	Patrick Martens	Br Pres & Insp Svcs	☐
Todd Shields	NCPP	☒	Drew Storey (Vice Chair)	Clark Dietz	☒
			Allen Scarborough	CMC	☒
			Mike Stroia	CMC	☐
State Agency Representatives			Barritt Lovelace	Collins Eng.	☐
			Drew Garceau	Collins Eng.	☒
Sarah Wilson(Secretary)	Illinois DOT	☒	Thomas Collins	Collins Eng.	☒
Adam Post	Indiana DOT	☒	Marc Parker	Collins Eng.	☐
Jennifer Hart	Indiana DOT	☐	Brent Toller	DS Brown	☐
Jeremy Hunter	Indiana DOT	☐	Mark Ericson	ECHEM	☐
Mark Swiderski	Indiana DOT	☐	Ray Breer	ECHEM	☐
Joe Stanisz	Iowa DOT	☒	Andy Castillo	EMSEAL	☐
Scott Neubauer	Iowa DOT	☒	Diana Hellman	FujiFilm	☐
Dewight Jones	Iowa DOT	☐	Jason Fogg	HDR, Inc.	☐
Dominique Shannon	Kansas DOT	☒	LJ Dickens	HNTB	☐
Don Whisler	Kansas DOT	☐	Ed Liberati	Hughes Group	☐
Jim Leaden (Vice-Chair)	Kansas DOT	☒	Blake Liberati	Hughes Group	☒
John Culbertson	Kansas DOT	☐	Kevin Irving	Int. Zinc Assoc.	☐
Josh Rogers (Director)	Kentucky TC	☐	Greg Heilman	Jet Filter System	☒
Dora Alexander	Kentucky TC	☐	Paul Vinik	GPI	☐
Brandon Boatman	Michigan DOT	☐	Richard Dunne	GPI	☐
Jacob Creisher	Michigan DOT	☐	Paul Jensen	Jensen Eng.	☒
Jason DeRuyver (Director)	Michigan DOT	☒	Dave Juntunen	Kerchner Grp	☐
Paul Pilarski	Minnesota DOT	☒			
Sarah Sondag (Chair)	Minnesota DOT	☒	Bobby Scarpitto	Kwikbond	☒
Mark Spafford	Minnesota DOT	☐	Gregg Freeman	Kwikbond	☐
Jerry Goodman	Missouri DOT	☐	Josh Bunderson	Metal Fatigue Soln.	☐
Todd Miller	Missouri DOT	☒	Adam Hales	Phoscrete	☐
Fouad Jaber	Nebraska DOT	☐	Kyle Bartfay	Phoscrete	☐
Kent Miller	Nebraska DOT	☐	Paul Imbrock	PoreShield	☐
Mark Traynowicz	Nebraska DOT	☐			
Babrak Niazi	Nebraska DOT	☐	Richard Huza	Salit Steel	☐
Miles Nelson	North Dakota DOT	☒	Derrick Castle	Sherwin Williams	☐
Ida Narbuvooll	North Dakota DOT	☐	Mark Hudson	Sherwin Williams	☐
Matthew Kurle	North Dakota DOT	☐	Aamer Syed	Sika	☐
Brad Noll	Ohio DOT	☐	Fabio Puzzo	Sika	☐

Jared Backs	Ohio DOT	☐	Siva Venugopalan	Siva Corrosion	☐
Mike Brokaw	Ohio DOT	☒	Chris Davis	Structural Tech	☐
Walt Peters	Oklahoma DOT	☒	Tom Donnelly	Transpo	☐
David Coley	South Dakota DOT	☒	Michael Stenko	Transpo	☐
Todd Thompson	South Dakota DOT	☐	Lawrence Kirchner	TranSystems	☒
Alex Pence	Wisconsin DOT	☐	David Brodowski	TrueTech Bridge	☐
Philip Meinel	Wisconsin DOT	☒	Peter Seibert	UHPC Soln.	☐
Ryan Bowers	Wisconsin DOT	☒	Kevin Stumpf	Uretex USA	☐
Travis McDaniel	Wisconsin DOT	☐	Kevin Stull	Washer Coatings	☐
David Bohnsack	Wisconsin DOT	☐	Nick Graziani (Director)	Watson Bowman	☒
Anthony Stakston	Wisconsin DOT	☒			
Julie Brooks	Wisconsin DOT	☐			
Local Agency Representatives					☐
Mel Quick-Miller	Harrison Cty IN	☐			
Javier Romero	Cook County, IL	☐	Guest / Mixed Affiliation		
			A. Jones		☒
Academia Representatives			Emery Sayre		☒
Basak Bektas	MN State Mankato	☐	Steve Conley		☒
Glenn Washer (Director)	U of Missouri	☐	Richard Miller	Missouri DOT	☒
Pat Conner (Director)	Indiana LAP	☐			☐
					☐
FHWA Representatives					☐
Larry O'Donnell	FHWA	☒			☐
Raj Ailaney	FHWA	☐			☐
Scott Stotlemeyer	FHWA	☐			☐
Tim Anderson (Director)	FHWA	☐			☐
					☐
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			Guest Speakers		
					☐
					☐
					☐

Anyone shown with Unknown Affiliation can email the Secretary at Sarah.Wilson@illinois.gov with an update for the roll call.

SEBPP Annual Meeting Raleigh, NC

AUGUST 30 TO SEPTEMBER 1, 2022

SARAH WILSON'S THOUGHTS...

1

SEBPP Meeting

- ▶ Linked Agenda will be included in the Teleconference meeting minutes, please take a bit of time to review and consider following up by reviewing the presentation / watching the video of any interesting sections (once published by TSP2)
 - ▶ Standard meeting agenda – ½ day / Full day / ½ day
 - ▶ No paper handouts, they emailed the standard handouts ahead of time.
 - ▶ Wednesday evening event at NC State Museum was well attended.
 - ▶ Vendor room was overflowing, I think vendors may have out numbers state attendees.

2

SEBPP Meeting – Sarah W's Highlights



Attendees

- ▶ 2 local agencies attended – Hillsborough County and City of Virginia Beach.
- ▶ Several Agencies had 5+ members attending (Arkansas, Louisiana, North Carolina)
- ▶ Only 2 of the 14 States were not directly represented.

3

SEBPP Meeting – Sarah W's Highlights

- ▶ New Attendee Luncheon –
 - ▶ Good discussion obtained by asking those attending to share what they wanted to take home from the event, and why their state / company chose to send them..
 - ▶ I particularly liked Louisiana's remarks (they sent more than the 2 who were reimbursed.) They noted that their state had a written secession plan that included cross training.... Secession Planning / Cross Training might be a good topic for a future teleconference.

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SEBPP Meeting – Sarah W's Highlights

▶ NBIS & SNIBI – Final Rule Implementation

- ▶ FHWA Presentation
- ▶ Implementation Dates from FHWA Memo ... (memo included in minutes, though most are probably aware of it.)
- ▶ NBIS Date – June 24'
 - ▶ Qualifications for PMs, TLs, & NSTM TL's
 - ▶ States must get alternative training re-approved.
 - ▶ Inspection Intervals changes for Routing, UW, and NSTM
- ▶ SNIBI Dates –
 - ▶ Early 23' FHWA training for SNBI for inspection staff Remote and in-person.
 - ▶ March 25' – last submittal in 1995 Coding Guide
 - ▶ March 28' – 100% populated and verified SNBI submittal.

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SEBPP Meeting – Sarah W's Highlights

▶ NBIS & SNIBI – Final Rule Implementation

- ▶ Panel Session (Each state gave a 5+ minute presentation to start)
 - ▶ States NC / LADOTD / AR
 - ▶ Starting to collect SNBI data by early 23....pending software updates..
 - ▶ LADOTD preparing new inventory forms and running through some practice updates in 2022. Developing consultant contract to collect inventory.
 - ▶ Training for inspection and data staff needs
 - ▶ States putting together FHWA documentation required for extended inspection intervals / updating shortened intervals per FHWA requirements..
- ▶ Inspection / BMS Software Companies.
 - ▶ InspectX, BrM, Bentley
 - ▶ All companies indicated that their systems would be ready to handle the new data requirements very quickly. Looking at migration tools / FHWA translators for interim submittals prior to full conversion.

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SEBPP Meeting – Sarah W's Highlights

Conc Lab at Univ of Texas

- ▶ Concrete Bridge Engineering Institute – Dr Bayrak
 - ▶ Training and Certification
 - ▶ Concrete Solutions Center
 - ▶ Conc Br Component Collection
- ▶ Funded via Transportation Pooled Fund Study 1580

S-BRITE Steel Lab at Purdue

- ▶ Steel Bridge Research, Inspection, Training and Engineering Dr. Connor, Purdue University
 - ▶ Help owners maintain steel infrastructure.
 - ▶ Training
 - ▶ DEN – Distributed Expert Network
 - ▶ Research
- ▶ Funded via Transportation Pooled Fund Study 5(486)

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SEBPP Meeting – Sarah W's Highlights

Conc Lab at Univ of Texas



TEXAS
The University of Texas at Austin

WHAT STARTS HERE CHANGES THE WORLD



Post-tensioning Laboratory / Academy



Bridge Deck Construction Inspection



Concrete Materials for Bridges

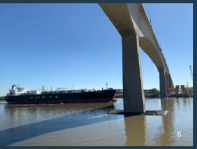


Future Topics and Needs



Training and Certification

- Hands-on Training
- Recreate / Mock-up Problems
- Workforce Development
- Certification Programs



Concrete Solutions Center

- Research and Development
- Testing New Technologies
- Webinars and In-House Workshops
- Technical Support
- Documents and FAQ's



Concrete Bridge Component Collection

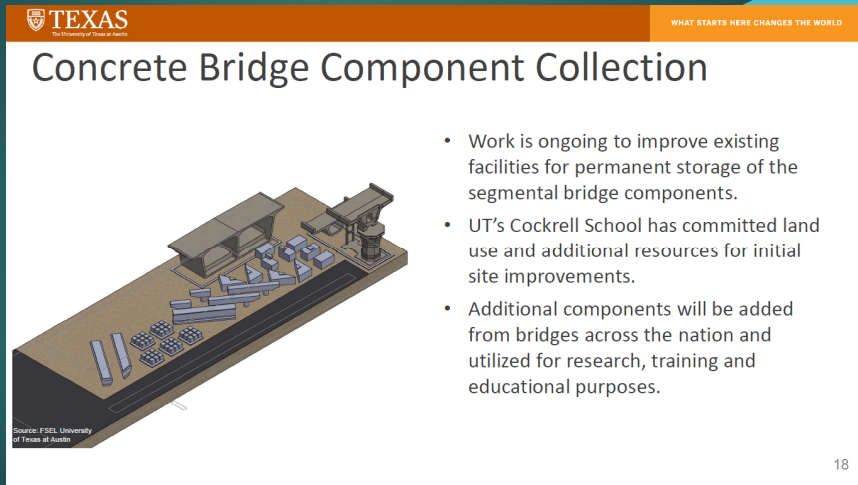
- Training and Demonstrations
- Illustrate problems, solutions, NDE
- Contains actual bridge components
- Samples from research projects

Source 1,2,4-7: FSEL, University of Texas at Austin
 Source 3: Laboratory for Infrastructure Materials
 Posttensioning: The University of Texas at Austin

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SEBPP Meeting – Sarah W's Highlights

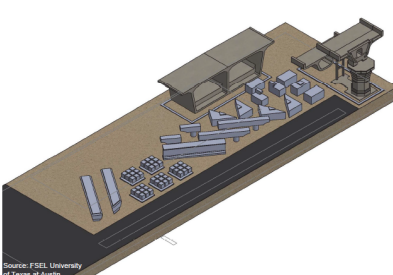
Conc Lab at Univ of Texas



TEXAS
The University of Texas at Austin

WHAT STARTS HERE CHANGES THE WORLD

Concrete Bridge Component Collection



Source: FSEL, University of Texas at Austin

- Work is ongoing to improve existing facilities for permanent storage of the segmental bridge components.
- UT's Cockrell School has committed land use and additional resources for initial site improvements.
- Additional components will be added from bridges across the nation and utilized for research, training and educational purposes.

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SEBPP Meeting – Sarah W's Highlights

S-BRITE Center at Purdue



S-BRITE

INTRODUCTION / UPDATE

Steel
Bridge
Research
Inspection
Training
Engineering



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SEBPP Meeting – Sarah W's Highlights

MAJOR BRIDGE MAINTENANCE STRATEGIES

- ▶ Texas – Preservation Strategies for Signature Bridges
- ▶ North Carolina – Save the Whales! (\$20 Million or more)
- ▶ AL – Mega Bridges – more Pro-active
- ▶ West Va – 30 bridges – Moveable & Complex get special treatment.

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SEBPP Meeting – Sarah W's Highlights

- ▶ Texas – Preservation Strategies for Signature Bridges

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Preservation Plans for Signature Bridges

- Pecos High Bridge
- Fred Hartman Bridge
- Veterans Memorial Bridge
- Rainbow Bridge
- MLK Bridge
- etc....






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SEBPP Meeting – Sarah W's Highlights

- Texas – Preservation Strategies for Signature Bridges

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Preservation Plans for Rainbow Bridge

Rainbow Bridge
(NBI # 20-124-0-0306-03-015)

SH 87WB over Neches River



2022
Bridge Preservation Plan

Prepared by:
Bridge Division-Field Operations
Texas Department of Transportation

	Activity	Frequency	Approximate Unit Cost	Last Performed/ Next Due
Deck	Deck sweeping/washing and maintain drainage system	10 years/ As needed after application of deicing salt		
	Slane	5-10 years	\$6/ft ²	2023/2033/2043/2053
	Joint	Clean and flush	\$10/lf	2022/2023/204/2025
Approach	Slab/Wearing surface	Flushing/cleaning	10 years/ As needed after application of deicing salt	
Superstructure	Bearings	Washing & Lubricating	5 years	2023/2028/2033/2038
	Protective coating	Zone/Spot Painting**	5 years	2023/2028/2033/2038
		Blot and repaint	10-20 years	2016/2033/2053
	Abutment cap	Clean debris from top of cap	5 years	2023/2028/2033/2038
Substructure	Steel bents	Zone/Spot Paint	5 years	2023/2028/2033/2038
	Concrete pile caps (mass concrete)	Blot and Repair	20 years	2016/2033/2053
		Crack sealing	10 years	2023/2033/2043/2053
	Slane		10 years	2023/2033/2043/2053
Channel	Dolphin	Maintenance	10 years	2014/2024/2034/2044/2054

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SEBPP Meeting – Sarah W's Highlights

- Texas – Preservation Strategies for Signature Bridges

Preservation Plans for Signature Bridges

- Step 1 – Designate district champion for this effort
- Step 2 – Identify and prioritize bridges to be included
- Step 3 – Develop plan for each bridge
 - Identify/List preservation actions
 - Assign frequency to preservation actions
- Step 4 – Assemble programmatic schedule for district's bridges
- Step 5 – Bridge staff work with district leadership to program work
- Step 6 – Incorporate into annual bridge planning



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SEBPP Meeting – Sarah W's Highlights

- Texas – Preservation Strategies for Signature Bridges

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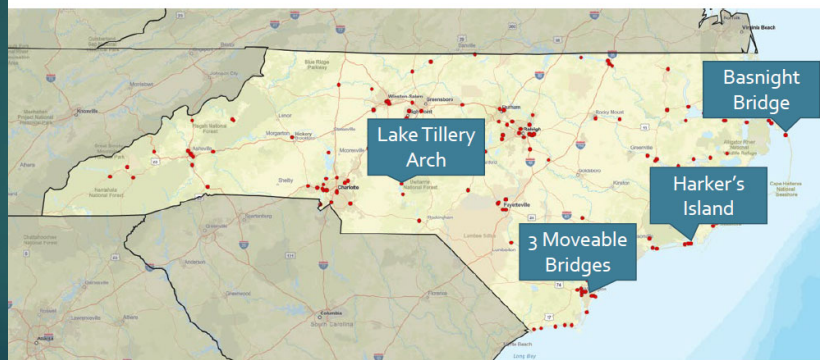
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SEBPP Meeting – Sarah W's Highlights

- North Carolina – Save the Whales! (\$20 Million or more)

ALLOCATION OF CENTRAL BPR FUNDS

Replacement Costs over **\$20M**
Over **200** bridges



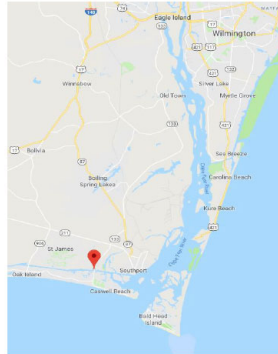
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SEBPP Meeting – Sarah W's Highlights

- ▶ North Carolina – Save the Whales! (\$20 Million or more)

BRIDGE PRESERVATION PROJECT

- High Value BPR Project: Barbee Bridge, Oak Island



NC 133 Over Intracoastal Waterway – Built in 1972

ESTIMATED REPLACEMENT COST: \$93.2M

REHABILITATION NEEDS:

- Replace Low Water Concrete Beams
- Overlay Deck
- New Bicycle Rail
- Repair Damaged Concrete

COST TO REHABILITATE: \$15.5M

ESTIMATED LIFE EXTENSION: 50 YEARS

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SEBPP Meeting – Sarah W's Highlights

- ▶ Ancillary Structures Peer Discussion
 - ▶ What's included in your definition?
 - ▶ Overhead Signs
 - ▶ Bridge Mount Signs
 - ▶ MSE Walls (or all retaining walls?)
 - ▶ High Mast Light Towers / Roadway Lighting
 - ▶ Traffic Signals
 - ▶ Inspected by Climbing or closing lanes? Climbing allowed over open lanes?
 - ▶ Cycle?
 - ▶ Manuals Used?

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SEBPP Meeting – Sarah W's Highlights

- ▶ Coating Panel Discussion
 - ▶ Tony Serdines GPI, Taylor Saffo (Contractor), Derek Castle (Sherwin Williams), and Robbie Koirala Georgia DOT
 - ▶ Dealing with RR's
 - ▶ Warranty
 - ▶ Level of Inspection (inspector qualifications)
 - ▶ Latent Defect Period?

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SEBPP Meeting – Sarah W's Highlights

- ▶ UHPC – Ultra High-Performance Concrete Overlays



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SEBPP Meeting – Sarah W's Highlights

► UHPC – Ultra High-Performance Concrete Overlays

ULTRA-HIGH PERFORMANCE CONCRETE

Material Constituents



Filler, Sand & Cement
(Premix)

Superplasticizers
(Admix)

Water

Steel Fibers
(2.0% – 3.25 %)

- UHPC is an advanced cement-based composite material and **NOT** comparable to normal concrete
- Very **high strength, stiffness and tensile strength**
- **Compact nano-matrix** and **internal steel fiber reinforcement** for added ductility
- **Exceptional durability** and **Impervious** to chlorides and water
- > 75 year life cycle
- Available as **self-consolidating** or **thixotropic formulation** for various applications

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Confidential

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SEBPP Meeting – Sarah W's Highlights

► UHPC – Ultra High-Performance Concrete Overlays

UHPC OVERLAYS IN NORTH AMERICA



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SEBPP Meeting – Sarah W's Highlights

- ▶ UHPC – Ultra High-Performance Concrete

FHWA's Bridge Preservation Initiatives



Every Day Counts Initiative (EDC -6)

Ultra-High Performance Concrete (UHPC) for Bridge Preservation and Repair

Led by:

Zach Haber – Office of Infrastructure Research & Development

Justin Ocel – Resource Center
(Justin.Ocel@dot.gov)

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SEBPP Meeting – Sarah W's Highlights

- ▶ GAO (Government Accounting Office) Report on Corrosion with recommendations to FHWA
 - ▶ State Surveys underway
 - ▶ Planning Peer Networking meetings for two primary areas –
 - ▶ Northern Rust Belt
 - ▶ Tidal Zone areas...

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SEBPP Meeting – Sarah W's Highlights

- ▶ GAO Report on Corrosion – FHWA actions...

Corrosion Prevention and Mitigation – GAO Report

- GAO-21-104249 Report – Federal Highway Could Better Assist States with Information on Corrosion Practices – September 2021
- House Report 116-106 (June 6, 2019) – Review the status of States' bridge corrosion-control planning
- The GAO Report examines:
 - Trends in condition of NHS bridges – how corrosion affects bridge condition
 - Practices States use to address corrosion on NHS bridges
 - How FHWA assists States in addressing bridge corrosion



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SEBPP Meeting – Sarah W's Highlights

- ▶ GAO Report on Corrosion – FHWA actions...

Corrosion Prevention and Mitigation – GAO Report

GAO's Recommendation to FHWA

- The Administrator of FHWA should ensure that FHWA's ongoing bridge preservation efforts include activities, such as peer exchanges and case studies that focus on addressing the challenges states face with determining the circumstances under which specific corrosion practices and materials are most effective.

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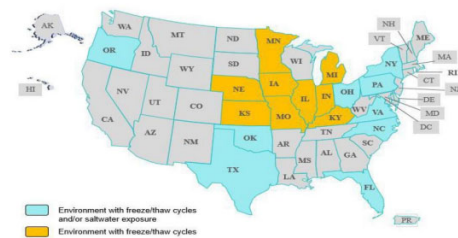
SEBPP Meeting – Sarah W's Highlights

- ▶ GAO Report on Corrosion – FHWA actions...

Corrosion Prevention and Mitigation – GAO Report

FHWA plans to Conduct Two Regional Peer Exchanges:

- Midwest and Northeast States that experience frequent freeze-thaw cycles and use de-icing chemicals on their highway bridges
- Southeast and West States that experience freeze-thaw cycles and/or have highway bridges exposed to saltwater



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SEBPP Meeting – Sarah W's Highlights

- ▶ GAO Report on Corrosion – FHWA actions...

Corrosion Prevention and Mitigation – GAO Report

The Two (2) Peer Exchanges will consist of:

- Each of the selected States to complete a Questionnaire on the State DOT's corrosion prevention and mitigation practices for In-Service Bridges & corrosion mitigation in design policies and standards for New Bridges
- Virtual ½ Day Session (approx. 3 weeks in advance of face-to-face Peer Exchange – Each State to prepare and deliver an Introductory Presentation (approx. 15 minutes each)
- Two day in-person Peer Exchange
- The States that only experience Freeze Thaw Cycles (orange-colored states in the graphic) is planned for November
- The States that experience Freeze Thaw Cycles and have exposure to Marine Environments (cyan-colored states in the graphic) is planned for February
- Publish case studies or communicate findings to States (expects to complete by July 1, 2023)

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SEBPP Meeting – Sarah W's Highlights

► Bridge Preservation ETG – Pocket Guides

- Guides already out for the following:
 - [POCKET GUIDE A User's Guide to Maintenance and Repair of Bridge Bearings](#)
 - [POCKET GUIDE A User's Guide to Removal and Replacement of Bridge Coatings](#)
 - [POCKET GUIDE A User's Guide to Bridge Cleaning](#)
 - [POCKET GUIDE Thin-Polymer Bridge Deck Overlay System](#)
 - [POCKET GUIDE A User's Guide to Concrete Bridge Deck Patching](#)
 - [POCKET GUIDE A User's Guide to Spot, Zone, and Overcoating Existing Bridge Coatings](#)
 - [POCKET GUIDE A User's Guide to Repair of Bridge Concrete Substructure Elements](#)
- Upcoming guide on Rigid Cementitious Overlays being split up into 4
 - Latex
 - UHPC
 - Low Slump
 - Supplemental Cementitious Materials

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SEBPP Meeting – Sarah W's Highlights

► Bridge Preservation ETG – Pocket Guides



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SEBPP Meeting – Sarah W's Highlights

▶ ETG Case Studies / Surveys are available

- ▶ Response to Bridge Impacts (an overview of State Practices)
- ▶ Elimination of bridge joints with Link Slabs
- ▶ Utilization of Cathodic Protection
- ▶ Prioritizing Preservation for Locally owned bridge.

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SEBPP Meeting – Sarah W's Highlights

Possible Topics for MWBPP Teleconference / Annual Mtg / Etc

- ▶ Secession Planning for DOTs. Intentional cross training.
- ▶ The Concrete Bridge Engineering Institute in Austin Tx
- ▶ S-BRITE Center at Purdue in Indiana
- ▶ Major Bridge Preservation Initiatives – what is your state doing for the larger bridges, anything special? Definition of Larger bridges, and specific maintenance or design details being used?
- ▶ Ancillary Structures – do you inventory or inspect any of them? If so, what procedures, intervals, etc do you use? (This could also be a topic for the Inspection Group.)
- ▶ UHPC presentation. There is a FHWA EDC initiative, and some states are starting. This covers both overlays / link slabs to eliminate joints / beam end retrofits.

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SEBPP Meeting – Sarah W's Highlights

Overall a great meeting, with many good presentations / discussions.

The Midwest may have troubles from pour salt on our bridge decks in the winter... but at least we don't put the substructures into a year-around salt water bath...

Thanks to the MWBPP for the opportunity to attend.

Southeast Bridge Preservation Partnership

2022 Power Point Presentations

Hosted by North Carolina DOT in Raleigh, NC

Embassy Suites, Raleigh Durham Research Triangle

August 30 – September 1, 2022

	Topics are Hyperlinked -	
	Hover Mouse over Topic and Click	
	SESSION 1 – Welcome / NCDOT Bridge Highlights (Triangle Ballroom)	Moderator: Tim Sherrill, NCDOT
	Welcome by North Carolina DOT	Kevin Fischer, Assistant State Structures Engineer, NCDOT
	Opening Remarks	Tim Sherrill, NCDOT; Edward Parker, FHWA; Nancy Huether, NCPP @ MSU
	The Swift Island/Lake Tillery Historic Arch Bridge Rehabilitation and Widening	John Sloan, AECOM
	Basnight Bridge Project	Domenic Coletti, HDR
	Afternoon Break & Networking in Industry Exhibit Hall	All
	SESSION 2 – Changes: Inspection & Inventory (Triangle Ballroom)	Moderator: Haylye Brown, LA DOTD
	NBIS & SNBI Final Rule & Implementation	Larry O'Donnell, FHWA
	Panel Session: How States are Dealing with Changes	Panel Moderator: Haylye Brown, LA DOTD
	Panel Members Stephanie Doolittle, LA DOTD David Snoke, NCDOT Nanneman, ArDOT Larry O'Donnell, FHWA	
	Panel Session: Updating Bridge Management Systems to Accommodate Final Rule Changes	Panel Moderator: David Miller, LA DOTD
	Panel Members Hooman Parvardeh, AssetIntel Zac Boyle, AASHTOWare BrM/Mayvue Bob Klemens, Bentley Systems	
	Concrete Bridge Engineering Institute (CBEI)	Dr. Oguzhan (Ozzie) Bayrak, The University of Texas at Austin
	Topics are Hyperlinked -	
	Hover Mouse over Topic and Click	

Wednesday, August 31, 2022

	SESSION 3 – Repair & Preservation of Specialized Bridges (Triangle Ballroom)	Moderator: Dick Dunne, GPI		
	Preservation of Three NC Moveable Bridges	Jason Doughty, Modjeski & Masters		
	Deterioration Identification and Rehabilitation of Prestressed Concrete Piles	Natallia Shanahan, Vector Corrosion Services		
	I-95 over Great Pee Dee River – Catching the Piers Being Attacked by Channel Migration	Michael Dukes, CONSOR Engineers		
	Developing Preservation Strategies for Signature Bridges	Steven Austin, TxDOT		
	SBRITE Center	Rob Connor, Purdue		
	SESSION 4 – Bridge Preservation & Asset Management (Triangle Ballroom)	Moderator: Dave Juntunen, Mott MacDonald		
	TSP2 Updates & Working Group Reports	Nancy Huether, NCPP; Tim Sherrill, NCDOT Steven Austin, TxDOT; Kyle Bartfay, Phoscrete		
	We Manage what We Measure	Graham Bettis, TxDOT		
	Bipartisan Infrastructure Legislation (BIL)– Using Funding Wisely	Dan Muller, FHWA		
	Panel Session: Using Inspection Data and Asset Management Plans to Support Preservation Decisions	Panel Moderator: Michael Brown, Wiss Janney Elstner Associates, Inc.		
	Panel Members Robbie Koirala, GaDOT Cole Stump, AIDOT Dave Juntunen, Mott MacDonald Chad Robinson, WVDOT			
	SESSION 5.1: Proactive Corrosion Strategies for Life Extension	SESSION 5.2: Specific Concrete Repair and Preservation Strategies		
	Location: Reynolds Room	Location: Smith/Cameron Room		
	Moderator: Sean Futch, SCDOT	Moderator: Tim Woolery, Adv. Chemical Technologies, Inc.		
	Surface Applied Corrosion Inhibitors	Max McCarthy, Evonik Corporation	Prestressed Mechanically Fastened FRP to Retrofit Existing Prestressed Conc. Bridge Beams	Dr Rudolf (Rudi) Seracino & Dr Sheng-Hsuan (Mike) Lin, NC State University
	Electrochemical Impedance Spectroscopy (EIS) Testing for Bridge Coatings	Phil Hagerty, AGC Chemicals Americas	External Post-Tensioning of Bridges Using CFRP Composites	Eri Vokshi, Sika Corporation
	Corrosion Resistant Reinforcement – Cost vs Costly	Allen Scarborough, Commercial Metals Co.	Hydrodemolition and LMC in North Carolina	Pat Martens, Bridge Preservation and Inspection Services
	Proactive Strategies to Protect Bridge Substructure and Superstructure	Marcy Ream, FPT Infrastructure	Epoxy Polymer Concrete Overlays	Ray Breer, E-Chem

Topics are Hyperlinked -
Hover Mouse over Topic and Click

Thursday, September 1, 2022

	SESSION 7– New Technology (Smith/Cameron Ballroom)	Moderator: Steven Austin, TxDOT
	Harkers Island Bridge	Trey Carroll, NCDOT
	Hydrodemolition and UHPC Overlay Preservation Solutions for Bridges	Peter Seibert & John McFadden, UHPC Solutions North America
	NDT/E and Structural Monitoring of Highway Infrastructure - An Overview	Shane Boone, BDI
	FHWA Needs Your Help to Respond to the GAO Report on Corrosion	Dick Dunne, GPI
	SESSION 8.1 – Cathodic Protection in Concrete Workshop	SESSION 8.2 – Coatings Panel Session
	Location: Reynolds Room	Location: Smith/Cameron Room
	Workshop Facilitators: Paul Vinik & Ivan Lasa, GPI	Panel Moderator: TBA
	<i>This discussion will involve the material science and appropriate selection of materials, to maximize the service life of cathodic protection systems used to mitigate corrosion of steel in reinforced concrete.</i>	Panel Members Robbie Koirala, GaDOT Derrick Castle, Sherwin Williams Tony Serdenes, GPI Nick/Taylor Saffo, Saffo Contractors