Midwest Bridge Preservation Partnership



Agenda – Monthly Teleconference Tuesday, May 3, 2022

Business Meeting: 12:30 – 1:00 PM Central Technical Session: 1:00 – 2:00 PM Central

<u>12:30 PM – BUSINESS MEETING</u>

1. Treasury Update

• Nancy has asked for update, but hasn't received it yet. Darlene will email to check. Kathy – we made a profit on the AZ conference, so we are in good shape – final numbers coming shortly.

2. Travel and Attendance Scholarships (Board)

Sarah S motioned for approval for scholarships to attend the meetings below – estimated cost \$2k per traveler say \$10k. All voted in favor.

- AASHTO Committee on Maintenance Sarah Sondag & Bill Oliva
- NE Regional Meeting Sarah Sondag
- West Regional Meeting Jim Leaden
- SE Regional Meeting Sarah Wilson

3. MWBPP Working Groups

Updating the working groups website - if they have become National Groups, may move them to another page.

- Bridge Preservation Research Glenn Washer. Possibly asking for research topics / needs input at the annual meeting. Working group may assemble the list. Revisit after annual meeting.
- Midwest Bridge Deterioration Modeling may send link or send some preliminary documents to be added to the website from the Midwest Modelling. Hopefully to publish the final report here as well.
- Systematic Preventative Maintenance Group Sunset.
- Preservation Matrix any interest in updating the Matrix? Might have morphed into the National Bridge Deck Committee's Bridge Product Database for overlay products. Sunset.
- Local Agency Outreach now National Sunset.
- Annual Meeting Working group on going.

4. Future Meeting Topic Ideas

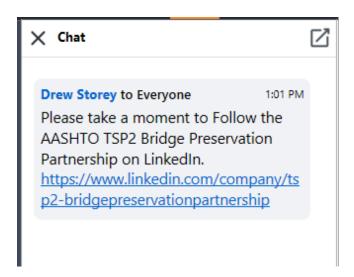
Alchemco offered ITD Update on their sealer product. Possibly combine with agency practices to mitigate early age deck cracking. Admixture options, internal curing options, possibly other research reports. Research from Wisconsin – on lightweight aggregate, and polymer admixture, other options (see WI Hwy Research Page and draft spec – done by CTL Group, look for presenter).

Other News

Drew Storey offered some updates on the National Working Groups:

National Local Agency Outreach – looking at Local Agency Portal for website.

National Outreach Social Agency – looking at improving our Linked In page. (here's the link if you aren't already following the TSP2 Bridge Preservation Group – Join It)



1:00 PM - TECHNICAL SESSION

1. Roll Call

See Chart at end of meeting minutes.

2. Approval of Minutes

March Minutes – were approved. Motion – Drew Storey / 2^{nd} – Bill Oliva – all in favor. Approved.

April Minutes – Motion Jim, 2nded all in favor. Approved.

3. New Generation Rigid Concrete Overlay Finish Machine (Luke O'Hara and Chuck Smith from Terex Bid-Well)

Full Presentation at the end of the minutes.. Contact information for presenter is below.



Kent Miller asked if any state specs were overly difficult to address. Noted that consistency certainly will help with price. Primarily – states are North and South Dakota, Wisconsin.

Bill Oliva – asked about if they wanted offers of experimental use, as a pilot program. Some state specs require vibrating screen rather than roller drum – possibly causing increases in cost.

Open to questions - reach out to Luke O'Hara

4. Construction Quality Working Group Update (Fouad Jaber, Nebraska DOT)

See TSP2 website at https://tsp2bridge.pavementpreservation.org/national-working-groups/#Construction%20Quality%20of%20Bridge%20Preservation%20Working%20Group

Construction Quality of Bridge Preservation Working Group

TSP-2 National Working Group	"Construction Quality of Bridge Preservation Working Group"				
Leader(s)	Chair: Fouad Jaber, Nebraska DOT Vice-Chair: Richard Dunne, GPI Secretary: Nancy Huether, NCPP				
Work Scope	This working group is focused on the constructed quality (and thus, future performance) of the installed bridge preservation/maintenance treatment(s). While the working group consists of core members, other subject matter experts will be invited to participate based on their expertise with the specific preservation treatments being evaluated.				
	1. Collaborate with the bridge owners (survey) to develop a list of bridge preservation / maintenance treatments which bridge owners have identified as being difficult to construct with quality, thereby potentially reducing the anticipated service life extension by implementing the preservation treatment. 1. A. Develop and execute a plan to fully evaluate the construction practices associated with the specific preservation treatment(s) B. Propose instructions, "how to" guides, and examples of how the specific bridge preservation / maintenance treatments should be constructed with quality to insure the activity achieves the desired performance C. Share this information through Regional TSP-2 Meeting presentations, AASHTO and TRB presentations, and Webinars 2. Collaborate with the bridge owners (survey) to develop a list of bridge preservation / maintenance treatments which bridge owners have identified as				
Deliverable Products	treatments which bridge owners have identified as				

	being readily and routinely constructed with quality 1. A. Develop and execute a plan to fully evaluate and document the construction practices associated with these specific preservation treatments (Best Practices) B. Share these Best Practices through Regional TSP-2 Meeting presentations, and Webinars 3. Collaborate with the bridge owners (survey) to identify other methods to deliver bridge preservation / maintenance treatments which bridge owners have identified as being effective in ensuring construction with quality, e.g., contract type (low bid, warranty, time and materials); specifications (performance vs. prescriptive), etc. 1. A. Share these topics through Regional TSP-2 Meeting presentations, AASHTO and TRB presentations, and Webinars. B. Annually assess progress and post the assessment on the TSP-2 website.				
Expected Completion	The Working Group will be an ongoing initiative. An end date cannot be determined until the list of bridge preservation / maintenance treatments identified for evaluation has been developed.				
Future Needs	Monthly conference calls to assess progress, define new initiatives, and monitor activities.				
Attachments	None at present.				
Conclusion	TBD				

Polyester Overlay Investigation - then other topics to be considered.

Found is looking for suggested topics and new members to the group. Please get in touch with him.

Looking at good practices and bad practices. Top 3 challenges and Top 3 successes. Have spreadsheet with responses from 41 states, compiling the information to share in the future.

5. National Working Groups – Request for Volunteers

- Bridge Preservation Coatings Working Group
 - Members? Not much going on historically has been SE and Florida, but want membership from all regions.
- Bridge Preservation BMS Working Group
 - Looking for people to participate, both at the top and bottom tier. Get your contact information to Nancy or Chris. (Dick Dunne, GPI) It's a great group to get involved with if you are struggling.
- Innovative Technology Demonstrations Working Group
 - ITD meeting demonstrates new materials and technologies.
- Local Agency Outreach Working Group
 - NACE (County Engineers) seem to feel that bridge preservation not a priority. Federal Level priority to push and help them to make bridges a priority.

6. Next Monthly Meeting

a.) June 7, 2022

Survey closed for Regional Meeting presentations, but if you have any last minute suggestions, you can get that information to Sarah S.

Sealing Practices Survey from National Bridge Deck

Siva – 100 year service life modeling. Possibly a presentation to the regional meeting.

Attendance Chart – MWBPP Teleconference May 3, 2022

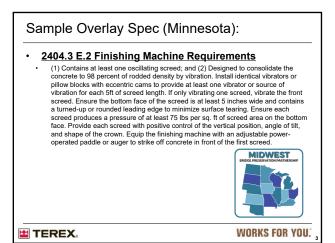
NCPP Representatives		Industry Representatives			
Darlene Lane	NCPP	\boxtimes	Tim Woolery	Adv. Chem. Tech.	\boxtimes
Nancy Huether	NCPP	\boxtimes	Brad Ehle	Adv. Chem. Tech.	\boxtimes
Chris Keegan	NCPP		Lorella Angelini	Angelini Consulting	\boxtimes
			Patrick Martens	Br Pres & Insp Svcs	
			Allen Scarborough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

Mike Brokaw	Ohio DOT		Chris Davis	Structural Tech	\boxtimes
Walt Peters	Oklahoma DOT	\boxtimes	Tom Donnelly	Transpo	
David Coley	South Dakota DOT	\boxtimes	Michael Stenko	Transpo	
Todd Thompson	South Dakota DOT		Lawrence Kirchner	TranSystems	\boxtimes
Alex Pence	Wisconsin DOT		David Brodowski	TrueTech Bridge	
Bill Oliva (Director)	Wisconsin DOT	\boxtimes	Peter Seibert	UHPC Soln.	\boxtimes
Philip Meinel	Wisconsin DOT	\boxtimes	Kevin Stumpf	Uretek USA	
Ryan Bowers	Wisconsin DOT	\boxtimes	Kevin Stull	Washer Coatings	
Travis McDaniel	Wisconsin DOT	\boxtimes	Nick Graziani (Director)	Watson Bowman	\boxtimes
David Bohnsack	Wisconsin DOT	\boxtimes			
Anthony Stakston	Wisconsin DOT	\boxtimes			
Local Agency Represent					
Mel Quick-Miller	Harrison Cty IN				
Javier Romero	Cook County, IL	\boxtimes	Guest / Mixed Affiliation		
Academia Representativ	es				
Basak Bektas	MN State Mankato		Jeff Milton	Virginia DOT	\boxtimes
Glenn Washer (Director)	U of Missouri	\boxtimes	Marty Bachey		\boxtimes
Pat Conner (Director)	Indiana LAP	\boxtimes	Matthew Keilson	EMSEAL	\boxtimes
			Steve Conley	ECHEM	\boxtimes
FHWA Representatives					
Larry O'Donnell	FHWA	\boxtimes			
Raj Ailaney	FHWA				
Scott Stotlemeyer	FHWA				
Tim Anderson (Director)	FHWA	\boxtimes			
			Guest Speakers		
			Chuck Smith	Terex	\boxtimes
			Luke O'Hara	Terex	\boxtimes

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







Jobsite & Existing Machine Overview

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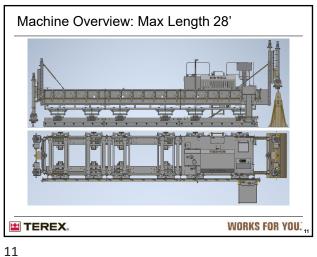
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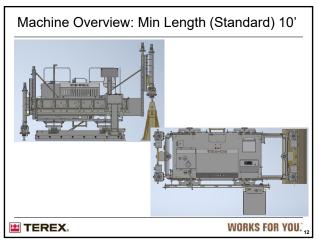


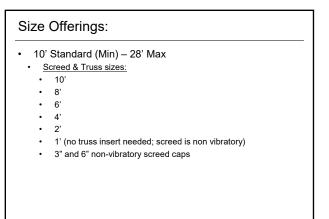




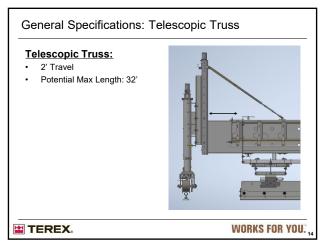




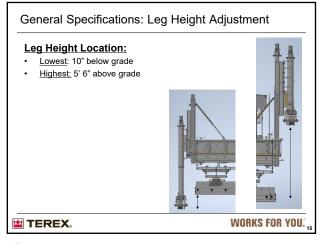


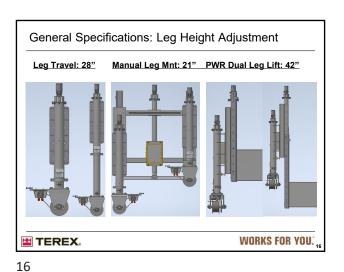


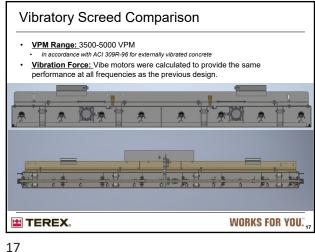
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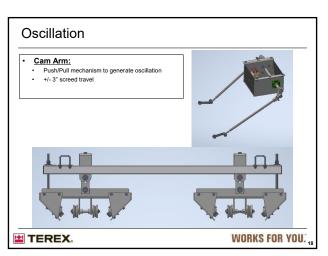


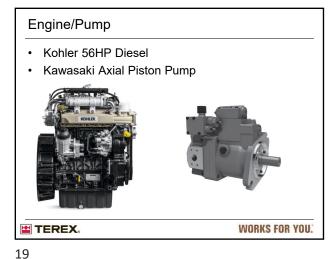
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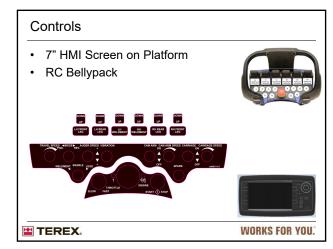












20

Additional Features

- Enclosures for Exposed Valve Bodies
- Hydraulic Oil temp and pressure monitoring
- Diagnostic System electronics
 - Fault codes shown on HMI screen
- · Telematics Port possible add-on
- Sonic Sensors leg height positioning
 - 5" leg lift application
- Emergency Stops magnetic/place anywhere
- Limit Switches for Carriage Travel
 - Smooth directional changes

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21

Multi-Purpose Use

- Our intent moving forward is to use the main platform of this machine for other paving applications.
- For those of you who are familiar with the existing OF machine: this is why many of the paving components specific to this type of overlay are easily removable.

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22

24

Timeline

- · Full structural analysis complete
- · Hydraulic/Electronic System: designed & ordered
- · Prototype Build: in process
- Expected Prototype Completion date: May-June 2022
- Testing

23

- Spring/Summer 2022
- Production
- Orders available Q3/Q4 2022
- · Machines available for the 2023 paving season

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