

MINUTES:

DRAFT

When: Wednesday, June 7, 2023 11:00 – 12:00 PM (PDT)

Where: Web-conference

I. There were 32 attendees to the WBPP regional web meeting. Attendees included:

Andrew Blower – Oregon DOT
Andrew Pack – Idaho DOT
Becky Nix – Utah DOT
Benoit Cordoba – Wyoming DOT
Brandon Henning – Nevada DOT
Casey Rafter – Kwik Bond Polymers
Chris Higgins – Oregon State University
Cody Parker – Utah DOT
Courtney Shepard, City and County of Denver
Darlene Lane – NCPP
David Dobson – Oregon DOT
Drew Garceau – Collins Engineers
Earl Franks – New Mexico DOT
Enamul Hoque – Arizona DOT
Gregg Freeman – Kwikbond
Greg Seipel, Washington State
Herbert Mcdowell – Idaho DOT
Karthick Boopathi – Stantec
Leah Milcarek – Utah DOT
Marcy Ream – FPT Infrastructure
Mark Libby – HDR Engineering
Meritt Hanson – Kwik Bond Polymers
Miras Mamirov – Engineering Operations
Nancy Huether – NCPP
Nathan Haddick – Forsgren Associates
Natasha Butler – Colorado DOT
Paul Jensen – JEC
Rafael Davis – Arizona DOT
Raj Ailaney – FHWA HQ
Richard Dunne - GPI
Thad Pinkerton – Utah DOT
Tom Dybas – Watson Bowman Acme

II. Welcome/Introductions

Brandon welcomes everyone, takes roll call, and moves to accept minutes from the May meeting. There are no objections and minutes are accepted.

III. Working Group Updates

Local Agency Outreach – Gregg Freeman and Travis Kinney

Gregg says focus is on funding mechanisms and grants for locals in asset management. In call last month we had Washington State and city of Seattle discuss funding some projects. We're open to new topics and looking for more folks to present. Please reach out to Gregg or Travis Kinney if you have topics or would like to present.

Bridge Deck Preservation – Nancy Huether

The final report task 2 for the Sealer synthesis study that all partnerships helped fund has been submitted. There are a few minor revisions that are needed. So they're almost ready for task 3 which will be discussed at the next meeting.

Bridge Inspection - Brandon Henning

About half the states participating monthly. We had a discussion of the new SNBI Subsection 2.3 Roadside Hardware and monitoring scour POA triggers.

Innovative Technology Demonstrations (ITD) - Andrew Pack

We Had some program reports from all the different products. Trying to set up demonstration events. Some talk to get more membership from bridge preservation partnerships. They have a new program for a poly salt armor and had a presentation from mst bar. Brandon Henning said he got an email today that was sent to all the chairs asking for someone from each partnership to participate in the calls. Andrew Pack represents WBPP.

Bridge Preservation BMS -

No one available to discuss.

Construction Quality of Bridge Preservation – Dick Dunn

Now looking at two different white papers for overlays. Looking to develop one for best practices/guidance guide for hydro demolition to get the desired removal. States have had trouble dialing in the depth to remove contaminated concrete but not blow through good concrete.

Bridge Preservation Coatings – Andrew Blower

Derrick Castle with Sherwin Williams would like to get regular meetings set up in the fall.

IV. Technical Session – Casey Rafter, Kwikbond Polymers

Presents Hybrid Composite Synthetic Concrete (HCSC) for Structural Overlays

This is a structural overlay. HCSC is a thick polymer concrete. Uses a HMHM Primer. Can be used for patching and joint headers.

HCSC vs polyester polymer concrete (PPC): HSCS is a structural overlay at all service temperatures. HCSC twice as abrasive resistant. PPC modulus of elasticity varies with temperature to make it only partially structural. PPC life is 30 years. HCSC life is 60 years. Both have a 2 hour cure. Both are mixed and placed the same.

HCSC has 6*db bar development and 2500 psi modulus of elasticity. Can be tined but longitudinal saw cuts are recommended. Has true adhesion at bond line with concrete doesn't rely on interlock.

HCSC has been installed for Caltrans on multiple bridges. Has been installed on adjacent box beam girders in New York State.

Discussed benefits of HCSC for structural repairs in decks vs other cementitious patching materials.

HSCS cost is \$120 SY per inch and PPC is \$90 SY per inch for furnished and installed.

Q&A

Cody Parker – Are costs the installed cost

Casey – Yes furnished and installed

Becky Nix – We've had bond issues with other products due to low humidity, will that be an issue.

Casey – No this will perform like polyester and low humidity won't hurt it.

Brandon Henning – How long before traffic

Casey – 2 hours

Dick Dunne- do you recommend a shot blast first.

Casey – Yes you need to shot blast, even if you mill first then you shot blast. We're not worried about microcracks from milling due to the primer. The primer also helps to avoid debonding.

V. **New Business – Brandon Henning:**

July meeting to be pushed back a week due to the 12th due to holiday. Technical topic with "Use of NDE Methods for Bridge Deck Condition Assessments: SF-GPR, IRT, and HD Imagery".

Mark Wolcott – iSee – Innovative Subsurface Evaluation and Engineering, LLC.

We have an at larger directorship position available if anyone is interesting.

Dick Dunne nominates Meritt Hanson with Kwikbond Polymers as an industry rep who has been very active in these meetings. Meritt agrees and this was seconded. Meritt Hason was voted in.

Updated July 7th, 2023:

This was forward to Matt Harlan Industry Vice Chair. Matt told me he had names he was already going to present to the industry members. A final vote Friday July 7th, voted in Brett Commander from BDI to fill the vacant Industry Director role.

VI. Administrative items/ New Business/ Current Budget/ Travel/ Future Meeting Locations

Merrit Hanson was voted in for industry at the WBPP monthly meeting, but the industry voted Brett Commander will fill the vacancy.

WBPP Directorship:

- Steering Committee Directors (per the By-Laws):
 - Current
 - (4) State: Brandon Henning, Natasha Butler, Cody Parker, Andrew Pack
 - (1) Local: Carl Hendricks
 - (1) Academia: Chris Higgins
 - (2) Industry: Matt Harlan, Brett Commander
 - (1) At-Large: Vacant
 - (1) FHWA: Chris Long
- Officers:
 - Chair: Brandon Henning
 - State Vice Chair: Natasha Butler
 - Industry Vice Chair: Matt Harlan (3-year term)
 - Sec/Tres: Cody Parker

(per the By-Laws: State Agency Officers move up after serving 1-year term in that position)

Adjourn

Next Web Meeting: July 12th, 2023 11:00 AM PDT