

MINUTES:

DRAFT

When: Wednesday, December 2nd, 2020 11:00 – 12:00 PM (PDT)

Where: Web-conference

- I. There were 28 attendees to the WBPP regional web meeting. Attendees included:

Kyle Bartfay – Phoscrete Concretes
Andrew Blower - Oregon DOT
Brandon Henning – Nevada DOT
John Hooks – NCPP
Chris Keegan – NCPP
Darlene Lane – NCPP
Herb McDowell – Idaho DOT
Becky Nix – Utah DOT
Ed Welch - NCPP
Matt Harlan – David Evans & Associates
Theresa Jones – City of Reno
Travis Kinney – Oregon DOT
Chris Higgins – Oregon State University
Diana Hellman
Earl Franks – New Mexico DOT
Karen Davenport
Lorella Angelini
Mario Baggio - Alcemco
Mario Costanzo
Mike Banasiak – Collins Engineers
Peter Seibert – UHP Solutions
Travis Kinney – Oregon DOT
Alex Urchuk
Chris Hardan – Robert Petc
Cody Parker – Utah DOT
Dave Chase – Nevada DOT
David Dobson - Oregon DOT
Andrew Pack – Idaho DOT
Greg Heilman
Thad Pinkerton – Utah DOT
Dick Dunne - GPI

II. Welcome/Introductions

Herb welcomes everyone, takes roll call, and moves to accept minutes from the previous month's phone meeting. There are no objections and minutes are accepted.

III. Working Group Updates

Local Agency Outreach

Travis: Introduction to Bridge Preservation Presentation – 90 minutes. In November Travis and Greg had 2 trainings, Colorado LTAP – 15 people, New Hampshire Municipal association – pre recorder presentation with Greg and Travis being available for questions. Two more presentation are scheduled with Delaware – 100 registrations, and Wisconsin. The Case study for the FHWA bridge preservation task force on local agency funding on preservation has received the WBPP submittal for review and discussion to be in the case study. This was the six discussed at the last meeting. Travis is taking a position with David Evans & Associates.

Herb: Appreciate all your work you have done on the state side of the WBPP and look forward to you work from the industry side.

2020 Webinar: TSP2 Webinars

- Thursday September 24th: Est. duration: 2 hours (550 attendees)
Webinar Topic: Bridge Deck Preservation Using Overlays
- Thursday October 1st: Est. duration: 1.5 hours (448 attendees)
Panel Session Topic: Bridge Preservation by eliminating of Bridge Joints
- Thursday October 15th: Est. duration: 1.5 hours (267 attendees)
Panel Session Topic: Impact of Covid-19 & Budget Restrictions on Bridge Inspection & Bridge Preservation Programs
- Thursday October 29th: Est. duration: 1.75 hours (339 attendees)
Panel Session Topic: Bridge Preservation Using Preventative Maintenance/ On-Demand Contracts
- Thursday November 5th: Est. duration: 2 hours
Webinar Topic: Local Agency Bridge Preservation
- Thursday November 19th: Est. duration: 2 hours
Webinar Topic: Preventing Corrosion on Steel Bridges
- Thursday December 3rd: Est. duration: 2 hours
Webinar Topic: Repairing Cracked/ Damaged Steel Bridges
- Thursday December 10th: Est. duration: 1.5 hours
Webinar Topic: Bridge Deck Preservation Using Sealers

The webinar videos are available at the below link:

<http://bit.ly/2020BridgeWebinars>

WBPP Nov. or Dec. In Person Conference, Phoenix

WBPP meeting has been moved to November or December. The oversight panel of the TSP2 program decided to move the spring meeting to the fall. 80% response to the travel survey said they were unlikely to travel to spring meeting, due to the Covid 19 pandemic. Next planning session will be March 3rd, 2021. The agenda is in good shape, due to it almost being completed last year.

<u>Region:</u>	<u>Site:</u>	<u>Dates:</u>
Midwest	Lexington, KY	Sept. 28-30, 2021
Northwest	Harrisburg, PA	Oct. 12-14, 2021
Southwest	Hot Springs, AR	Nov. 2-4, 2021
West	Phoenix, AZ	Nov./ Dec. 2021

IV. Technical Topic: Culvert Fire Damage Rehab - Oregon

Oregon has a culvert that sustained fire damage while under rehabilitation. Oregon wants to know if anyone has material recommendations for repair. They have a good handle on repair detailing but would like to see if there are any other recommendations out.



BadBanksCulvert_StructureServicesAnalysis_

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Andrew: David Dobson will present the topic.

David: Wildfire in late summer, with one culvert exhibiting major fire damage. The culvert was currently under construction during the fire. Looking to keep the structure and looking to do a full surface patch to repair the culvert. Looking for recommendation for highly durable patch materials.

Q&A:

Herb: Have you removed loose concrete.

David: They hammer sounded and it was mostly sound.

Greg: What's your goal. Structurally its sound for the load, but you want to clean up the wall.

David: Long-term durability for flow events.

Dick: Recommend a polymer concrete. If you reduce your cross-sectional area, will you decrease your flow capacity?

David: Ran through Structures on the capacity but haven't heard from Hydraulics yet.
Unknown: Did the steel heat up enough to affect the strength of the steel.
David: Not much steel was exposed and it the fire didn't get hot enough to affect it.
Unknown: How thick was the culvert?
David: 12 inches thick.
Travis: Before this issue, was there signification abrasion issues prior.
David: No significate abrasion.
Travis: Discussion on just sealing the culvert.
David: Didn't like that idea, do want to seal the mirco cracks. Concern with not having cover over the exposed steel and spalling areas.
Travis: You are going to have different dimensions of patches.
David: Considering removing concrete to have a similar patching dimension.
Travis: Pull off tests?
Unknown: Have something to anchor to for the patches.
Peter: Does hydro demo of loose concrete and placement of UHPC. Shockcreet UHPC as a solution.
David: Have considered shockcreet.
Travis: Anyone sprayed a polyuria type of material? Like a think waterproofing membrane.
David: With emergency funds, we could totally replace the bridge. Prepared to make long-term investment.
Peter: Get that report and diagrams for them to review.
Peter: His company has done vertical surfaces in Europe.

V. Technical Presentation: Drone Photogrammetry & Multi-Beam Sonar Merging for Scour Critical Bridges – Collins Engineers



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Q/A:

Herb: Were you doing this as part of your underwater inspections?

Michael: Montana asked us for 3D underwater imagining. Collins added the drone and 3D modeling to the work. The extra cost is the post processing. The drones fly pre program missions. No extra field work.

Herb: how long does it take for underwater scanning.

Michael: About 1 to 2 hours for each substructure element.

File Size and does the department have to have special software.

Michael: Department can use cloud compare, which is free. Can submit as point cloud file that can be modified in CAD. Not sure on size.

VI. Administrative items/ New Business/ Current Budget/ Travel/ Annual Meeting

WBPP Directorship:

- Steering Committee Directors (per the By-Laws):
 - Current
 - (4) State: Herb McDowell, Andrew Blower, Brandon Henning, Natasha Butler
 - (1) Local: **Vacant**
 - (1) Academia: Chris Higgins
 - (2) Industry: Matt Harlan, Josh Sletten
 - (1) At-Large: Travis Kinney (fill with State Agency)
 - (1) FHWA: Chris Long
- Officers:
 - Proposed: (per the By-Laws: State Agency Officers move up after serving 1 year term in that position)
 - Chair: Herb McDowell
 - State Vice Chair: Andrew Blower
 - Industry Vice Chair: Matt Harlan (3 year term)
 - Sec/Tres: Brandon Henning

Adjourn

~~January 6th~~ February 3rd will be the next web meeting. 11:00 – 12:00 PM (PDT)