

IOWA HIGHWAY RESEARCH BOARD (IHRB)

Minutes of March 29, 2024

Regular Members Present

J. Hauber
D. Skogerboe
J. DeVries
R. Koester
R. Knoche
A. Bradley
D. Sanders
J. Thorius
T. Roll
B. Skinner
D. Snead

Alternate Members Present

A. Karimpour
B. Wilkinson

Members with No Representation

A. Clemons
M. Rydl

Executive Secretary

V. Goetz

Administrative Assistant

T. Bailey

Visitors

Khyle Clute	Iowa County Engineers Association/IDOT
Lee Bjerke	Iowa County Engineers Association/IDOT
Priscilla Williams	University of Iowa
Asghar Bhatti	University of Iowa
David Lee	University of Iowa
David Scadden	Iowa State University
Brent Phares	Iowa State University
Shauna Hallmark	Iowa State University
Jakob Lang	Iowa Department of Transportation
Dillon Davenport	Wayne County

Agenda

1. **Agenda review/modification**
Vote Vice Chair – James Hauber

Motion to Approve by J. DeVries 2nd by D. Snead
Motion carried with 13, 0, 0

Jakob Lang, District 3 Materials Engineer for the Iowa DOT will be serving as Jeff DeVries' alternate. Trent Wolken, Cass County Engineer, is the District 4 County representative. Jacob Ferro, Mills County Engineer will serve as District 4 County alternate.

Wade Weiss, Greene County Engineer, stepped down as the alternate for Jacob Thorius, Washington County Engineer. Andrew McGuire, Keokuk County Engineer, will be the alternat for Jacob Thorius.

Vote on Vice Chair for 2024 – James Hauber, Chief Structural Engineer, will serve at Vice Chair for 2024. Michael Nop, Bridge Project Development Engineer for the Iowa DOT will become the Chair for 2025.

Motion to Approve by J. Thorius 2nd by D. Sanders
Motion carried with 13, 0, 0

2. Minutes Approval from the December 12, 2023 meeting

Approve Correction – IHRB Minutes October 27, 2023

Motion to Approve by T. Roll 2nd by R. Knoche
Motion carried with 13, 0, 0

3. TR-710 Final Report," Partially Grouted Revetment for Low-Volume Road Bridges", Brent Phares, Iowa State University, \$93,500, (15 min)

Q. Do you have a Price per ton for this treatment? If you have 300 tons of RipRap underneath the bridge, you can do a price per ton like that item on project?

A. It is more surface area based than tonnage of the RipRap.

Q. With the grouting, did you see any pooling of water in a flood event in the RipRap and are you concerned about the RipRap needing to be a higher quality?

A. I don't think that is a concern, you want that velocity in the matrices, that the water gets in and that it has a way to get back out. You wouldn't need higher-quality RipRap.

Motion to Approve by D. Snead 2nd by B. Skinner
Motion carried with 13, 0, 0

4. TR-759 Final Report," Unticketing: An Upside-Down Approach to Speed Compliance", Shauna Hallmark, Iowa State University, \$50,000, (15 min)

Q. What do you expect the change to be if you had a radar gun transmitting, wouldn't that slow down people?

A. That has been studied and has been effective. This study was made to enforce a positive way for people to fill good about not speeding.

Q. What was the law enforcement's opinion on this?

A. They have been very enthusiastic about this study.

Motion to Approve by T. Roll 2nd by J. Hauber
Motion carried with 12, 0, 0

5. **ST-015 Final Report, "Guidebook for Application of Polymer-Modified Asphalt Overlays From Decision-Making to Implementation"**, Omar Smadi, Iowa State University, \$40,000, (15 min)

Defer ST-015 to next meeting on April 26, 2024

Motion to Approve by R. Knoche 2nd by J. Thorius
Motion carried with 13, 0, 0

6. **IHRB-3416, Proposal, "Iowa's Pavement Preservation Guide: Phase 2"**, Omar Smadi, Iowa State University, \$127,782, (15 min)

Q. This would not include a creation of some kind of tool, this is just a program to incorporate these techniques?

A. No there isn't, but I think the results could be incorporated into any of the pavement management systems that agencies would use. We are not planning on developing a tool, we think that should be incorporated into the existing tools.

Q. Are you looking at all pavement preservation activities, even for PCC? You talk a lot about HMA that is the traditional pavement preservation but are you looking at other pavements also?

A. Yes, we hope with the additional data we will expand the list of pavement preservation.

Q. You mentioned **Dtems** being a compliment to this program essentially providing those performance curves for these maintenance practices?

A. Yes

Motion to Approve by J. Thorius 2nd by J. Hauber
Motion carried with 13, 0, 0

7. **[STIC Innovation Ideas](#)**

a. [#4001 - Historical CAV data-based signal corridor prioritization and recommendation for signal timing fine-tuning](#)

b. [#4009 – Digital As-Builts for Asset Management and Load Rating Reference](#)

Idea # 4009 was selected for application for FY24 STIC Funding.

Motion to Approve by R. Knoche 2nd by J. Thorius
Motion carried with 13, 0, 0

8. **[Advanced Innovation Deployment \(AID\) Grant](#)**

a. [#3997 - Orthotropic Steel Decks for Commonplace Bridges](#) – County Sub-Recipient application.

b. [#4160 - Expanding Low Visibility Snow Plow Navigation Program](#) – State Application

Both projects were approved for Application.

Motion to Approve by D. Snead 2nd by D. Sanders
Motion carried with 13, 0, 0

9. **New Business** - None

10. Regular Meeting Adjourn

Motion to Approve by J. Thorius 2nd by R. Knoche

Motion carried with 13, 0, 0

11. University of Iowa - IIHR-Hydroscience & Engineering Physical Model Laboratories & IIHR Stanley Hydraulics Lab Tours

The next regular meeting of the Iowa Highway Research Board is scheduled for April 26th, 2023 in the East/West Materials Conference Room at the Iowa DOT in Ames Iowa.

The April and May meetings were cancelled due to insufficient agenda items.

TB/VG