

IOWA HIGHWAY RESEARCH BOARD (IHRB)

Minutes of December 12, 2023

Regular Members Present

J. Hauber
D. Skogerboe
R. Koester
A. Bradley
D. Sanders
J. Thorius
T. Roll
A. Clemons
W. Rabenberg
B. Skinner
D. Snead

Alternate Members Present

A. Karimpour
W. Weiss

Members with No Representation

C. Burke
R. Knoche
M. Rydl

Executive Secretary

V. Goetz

Administrative Assistant

T. Bailey

Agenda

1. Agenda review/modification

2. Minutes Approval from the October 27, 2023 meeting.
Correct minutes with William making motion for the proposal.

3. Membership Update, Meeting Calendar

Iowa DOT, Clayton Burke is stepping off the board and Jeff DeVries will become the member. Rudy Koester was nominated for the Chair. In February we will be voting on Vice Chair. For the City members, Rudy Koester has been appointed to another three-year term and Matt Cox will remain the alternate. For the County, Tylor Roll and Jamie Joel have been reappointed to represent district one for a three-year term. Mitch Rydl and Brent Wilkinson have also been reappointed for another three-year term for District 4. Wade Weiss has stepped down as Jacob Thorius' alternate. Andrew McGuire is the new alternate.

The 2024-2027 meeting dates have been updated. The March IHRB meeting will be held in Iowa City at the University of Iowa. We also have the December dates for the next two years Iowa County Engineer Association Conferences.

4. TR-753, Final Report, "Evaluation of Otta Seal Surfacing for Low-Volume Roads in Iowa, Phase II Study: Comprehensive Laboratory Evaluation and Characterization and Full-Scale Field Implementation", Halil Ceylan, Iowa State University, \$349,601, (15 min)

Motion to Approve by W. Weiss 2nd by R. Koester
Motion carried with 12, 0, 0

5.TR-777, Final Report, “Development of a Smartphone-Based Road Performance Data Collection Tool”, Halil Ceylan, Iowa State University, \$296,901, (15 min)

Q. Crack identification while driving down the road, are you getting 50, 80, 90 percent accuracy?

A. We need another full project, we would need to find all kinds of stresses so you can come up with a general comprehensive database.

Q. You mentioned crowd source. Is there open public source for accelerometer data captured from the general public cell phones. Is there a public source of data for that?

A. We did not use public source data. We did not need to use a database.

Q. How much to install a smart box?

A. Less than \$150 dollars.

Q. Can you identify a bridge approach withing 50 feet?

A. You can get a couple of inches from location.

Q. Will you lose data with poor coverage?

A. No, it's riding on the phone itself not the server.

*Member left

*Member joined

Motion to Approve by A. Clemons 2nd by J. Thorius

Motion carried with 12, 0, 0

6.TR-780, Final Report, “Advanced Testing and Characterization of Iowa Soils and Geomaterials”, Bora Cetin, Michigan State University, \$250,000, (15 min)

Q. You're applying a certain amount of stress in the horizontal direction, how do you correlate that with what is going on in the field?

A. We assume that this material is going to experience the same amount of traffic loading in the horizontal direction that is why we stick with the stress levels in ASHTO 2307.

Q. Do you see this as a tool to utilize investigation of existing type surfaces or a building block tool to *unintelligible* to pavement construction?

A. We can do some analyses and build new roads with the information from advanced analyses.

Motion to Approve by R. Koester 2nd by W. Rabenberg

Motion carried with 12, 0, 0

7.TR-788, Final Report, “Mitigation of Chloride-induced Corrosion through Chemisorption”, Ravi Yellavvajala, North Dakota State University, \$117,522, (15 min)

Motion to Approve by T. Roll 2nd by D. Snead

Motion carried with 12, 0, 0

8.New Business

IHRB Members are considered research liaisons, our ideation is in the Beau review state so you should receive an email asking you to give priority feedback for these projects. Based on this feedback research decides on which projects will go in front of IHRB, SPR or do not move forward. If it is something that is high priority, please suggest a champion. If we don't have a champion the project will not move forward. This is due by February 20th.

9.Adjourn

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

The next regular meeting of the Iowa Highway Research Board is scheduled for March 29th at 9:00 am in Iowa City.

TB/VG