

IOWA HIGHWAY RESEARCH BOARD (IHRB)

Minutes of July 30, 2021

Regular Members Present

D. Claman
W. Dotzler
C. Burke
R. Koester
A. Bradley
W. Weiss
B. Wilkinson

Alternate Members Present

D. Harness
J. Joiner
T. Malone
B. Skinner

Members with No Representation

D. Sanders
T. Roll
J. Fantz
T. Kinney

Executive Secretary

V. Goetz

The meeting was held online via Microsoft Teams on July 30, 2021 at 9:00 a.m. by Chair Dave Claman with an initial number of 9 voting members/alternates.

AGENDA

1. Agenda review/modification,

Motion to Approve by R. Koester, 2nd by W. Dotzler
Motion carried with 9 Aye, 0 Nay, 0 Abstaining

2. Minutes Approval from the June 4, 2021 meeting

Motion to Approve by A. Bradley, 2nd by R. Koester
Motion carried with 9 Aye, 0 Nay, 0 Abstaining

*** 2 Members Joined***

3. **Final Report:** TR-740, "Iowa Pavement Analysis Techniques (IPAT) Tool", Halil Ceylan, Iowa State University, \$250,000, (15 Min)

<http://publications.iowa.gov/37623>

Q: Was there any highway or road that turned out different from the prediction Tool?

A: There has been no anomalies with the data that we have worked with.

Q: On the next phase if approved, for those preservation treatments that don't bump the curve back down, how will this be modeled in the preservation curve?

A: There will be different options, making a structural improvement or non-structural improvement. This is a beautiful pavement management tool for all types of scenarios.

Motion to Approve by W. Weiss, 2nd by T. Kinney

Motion carried with 11 Aye, 0 Nay, 0 Abstaining

4. **Final Report:** TR-726, "Modernization of Iowa Transportation Program Management System", Danny Waid, ICEA Service Bureau, \$405,365, (15 Min)

<http://publications.iowa.gov/37623>

Motion to Approve by W. Weiss, 2nd by R. Koester

Motion carried with 11 Aye, 0 Nay, 0 Abstaining

5. TR-797, **Proposal:** "Feasibility of Granular Road and Shoulder Recycling Phase II: Gradation Optimization for Improved Performance", Jeremy Ashlock, Iowa State University, \$214,844, (15 Min).

Abstract

The proposed project aligns with the Iowa DOT focus areas of sustainability and technology. Aggregates for surfacing granular roads can consume significant portions of county budgets. Improving the longevity of granular roads by optimizing the strength of surfacing materials will reduce the consumption of virgin aggregate required for surfacing, as well as the frequency of required maintenance. As a result, counties will consume fewer aggregates which are finite natural resources, thus leaving more funds to devote to other pressing social, economic, and environmental needs. The project will generate a more broadly applicable version of a Gradation Optimization tool, which county engineers can use to achieve such improved longevity of granular roadway surfaces. The Gradation Optimization tool also represents a technological shift towards performance-based engineering design of granular roadways, which are typically constructed based on experience and rules of thumb. Overall, the long-term benefits of the proposed project will be to improve the quality, longevity, and state of good repair of Iowa roadways, which constitute a vital component of Iowa's infrastructure.

Motion to Approve by T. Kinney, 2nd by T. Malone

Motion carried with 11 Aye, 0 Nay, 0 Abstaining

6. New business

- a. A new campaign is opened to solicit ideas for [FHWA AID demonstration projects](#). FHWA has requested that applications be submitted by September 28th. The Meeting with FHWA going over new notice of funding for the aid demonstration outlined requirements. Depending on the ideas submitted through the AID campaign, if there are multiple ideas, they will need to be ranked, this will be done by email and through IHRB Ranking committee on the idea platform. FHWA is targeting March of 2022 to give notice of funding awards. The Board will be informed of the ideas that come in. Once ideas are submitted board members will log in to ideas.iowadot.gov to the aid demonstration campaign to rank ideas.

- b. Details will be sent out for the September 24th meeting. There will be a tour of the Bio Century Farm at Iowa State University following the IHRB. RSVP will be sent to board members. There is limited capacity for the tour. Currently developing location of the meeting for logistics and other details that will be forthcoming.

7. Adjourn

Motion to Approve by T. Kinney, 2nd by T. Malone
Motion carried with 10 Aye, 0 Nay, 1 Abstaining

The next regular meeting of the Iowa Highway Research Board is scheduled for September 24, 2021 at a location TBD.

VG