

To Iowa Highway Research Board

Date: May 12, 2022

Attention Regular and Alternate Members

From Vanessa Goetz
Office Research and Analytics Bureau

The Iowa Highway Research Board will meet **on May 20, 2022 at 9:00 am in person at the East/West Materials Conference Rooms at the Iowa Department of Transportation, 800 Lincoln Way, Ames, Iowa.**

AGENDA

1. **Agenda review/modification**
2. **Minutes Approval from the March 25, 2022 meeting**
3. **Final Report ST-012, “Incorporating Digital As-Built Information into I-380 / I-80 Interchange BIM”,** Al Nelson, HDR Engineering, Inc., \$53,603.30, (15min)
4. **Final Report TR-790, “Alternative Funding Approaches for Iowa Roads”,** Eric Rouse, HDR Engineering, Inc., \$174,872, (15min)
5. **Final Report TR-721, “Low-Cost Rural Surface Alternatives Phase III: Demonstration Project”,** Jeremy Ashlock, Iowa State University, \$166,054, (15min)
6. **Fall Idea Cycle – IHRB Ranking**
 - **Test method to assess thermal shrinkage of concrete mixtures (#3549)**
 - **Large-scale Testing and Formulation of Guidelines for the Use of Lightweight Cellular Concrete (LCC) in Geotechnical Application (#3551)**
 - **New Generation of Adhesive Anchor Systems Made with Ultra-High Performance Concrete (#3556)**
 - **Engineering Fibers for Engineered Fiber-Reinforced Cementitious Materials (#3557)**
 - **Sustainable Wood Composite Decks for Short-Span Bridges (#3558)**
 - **Achieving Net-Zero Concrete Bridges through Digital Construction Paired with Carbon Sequestration (#3559)**
 - **Low-Cost Safety Strategies for Unpaved Rural Roads (#3560)**
 - **Low Water Stream Crossing Alert System (#3575)**
 - **Iowa Highway Research Board 75 Year Anniversary Publication (#3590)**

- [Performance Monitoring of two-course Bridge Deck Utilizing Ultra High Performance Concrete \(#3624\)](#)
- [Qualitative Relationship Between Increased Legal Loads and Reduced Bridge Service Life \(#3625\)](#)
- [Bridge Deck Strategy: Materials and Reinforcement \(#3633\)](#)

7. **Additional Funding Request: TR-783**, *“Use of Organosilanes to Mitigate the Impacts of Freeze-Thaw Damage to the Granular Roadways in Iowa”*, \$25,000, (15 min)

8. **New Business**

9. **Adjourn**

The next regular meeting of the Iowa Highway Research Board is scheduled for **June 24, 2022** in person at the East/West Materials Conference Room at the Iowa DOT.

TB/VG