

To Iowa Highway Research Board
Attention Regular and Alternate Members

Date: 02/02/17
Ref. No. 080.31

From Vanessa Goetz
Office Research and Analytics
Subject Board Meeting on February 24, 2017

The Iowa Highway Research Board will meet **on February 24, 2017 at 9:00 am in the East/West Materials Conference Rooms at the Iowa Department of Transportation, 800 Lincoln Way, Ames, Iowa.**

AGENDA

1. **Agenda review/modification**
2. **Select New Vice-Chair**
3. **Minutes Approval from the December 8, 2016 meeting**
4. **Final Report: TR-713, "Load Ratings for Standard Bridges, Andrea Bickford, P.E., Senior Structural Engineer, Stanley Consultants, (\$104,689) (15min)**
5. **Proposal, "Development of Self-Cleaning Box Culvert Design – TR-619 Phase III", Marian Muste, University of Iowa, (\$148,702) (15min)**
6. **Proposal, "Development of Bio-Based Polymers for Use in Asphalt - Phase 2", Chris Williams, Iowa State University, (\$175,000) (15min)**
7. **Proposal, "Low-cost Rural Surface Alternatives Phase III: Demonstration Project", Jeremy Ashlock, Iowa State University, (\$151,428) (15min)**
8. **RFP Proposal: IHRB-16-15, "Increase Service Life at Bridge Ends through Improved Abutment and Approach Slab Details and Water Management Practices", Brent Phares, Iowa State University, (\$100,000) (15min)**

9. RFP:

- a. **IHRB-17-05**, *“Role of Coarse Aggregate Porosity on Chloride Intrusion in HPC Bridge Decks”*

10. Additional Continuation Project Requests Ranking

11. EDC-4 Implementation Plan Update: Sean Litteral, FHWA.

12. Proposal, *“Implementation of the Negative Moment Reinforcing Detail Recommendations”*, Brent Phares, Iowa State University, (\$149,197) (15min)

13. Innovative Pilot Program Update

- a. Initial Characterization of Geopolymer Based UHPC Material Properties, Ping Lu, ISU
- b. Hybrid Concrete for Advancing Pavement Performance, Kejin Wang, ISU
- c. Enhancing the Fundamental Knowledge and Use of Asphalt Emulsions Using Systematic Scientific and Engineering Approaches, Ashley Buss, ISU
- d. Estimating Energy Efficiency of Connected and Autonomous Vehicles in a Mixed Fleet, Jing Dong, ISU

14. New business

15. Adjourn

The next meeting of the Iowa Highway Research Board will be held on March 31, 2017 at 9:00 a.m. in the East/West Materials Conference Room at the Iowa DOT.

VG