

To Iowa Highway Research Board

Date: February 19, 2020

Attention Regular and Alternate Members

From Vanessa Goetz  
Office Research and Analytics

The Iowa Highway Research Board will meet **on February 28, 2020 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. IHRB Membership update
3. Minutes Approval from the December 10, 2019 meeting
4. Final Report: TR-750 *“Documenting The Design And Use Of Different Types Of Grade Control At Culverts,”* John Thomas, Hungry Canyons Alliance, \$25,000, (15 Min)
5. Final Report: TR-755, *“Scientific Innovations in Microsurfacing and Slurry Seal Mixture Design,”* Ashley Buss, Iowa State University, \$50,000, (15 Min)
6. Proposal IHRB-172: *“Guide to Remediate Bridge Deck Cracking”*, Mohamed Elbatanouny, Wiss, Janney, Elstner, \$175,000.
7. Proposal IHRB-93: *“Iowa’s Pavement Preservation Guide”*, Ashley Buss, Iowa State University, \$120,000.
8. Proposal IHRB-346: *“Load and Resistance Factor Rating of Iowa DOT Standard Bridges designed LRFD”*, Steve W. Moffitt, HGM Associates.
9. New Topic Voting

## Submission

No	Topic Title
363	Flood Prediction and Assessment via Smart UAVs
366	Quantification of The Flood Reduction Benefits Of On-Road Structures At The Huc12 Watershed Scale
367	Extending Longevity of Iowa's Transportation Infrastructure Using Self-Healing Concrete Technology
380	The Impact of Deferred Maintenance on Iowa's Local Road System
381	Real-Time Intelligent 3D Scanning Robot for Road, Bridge and Highway Inspections
388	A phase-field damage model to predict low-temperature thermal cracking in asphalt concrete

## 10. Continuation Project Voting

Submission No	Previous Project #	New Phase Project Title
271	TR-746	Use of Super Absorbent Polymers for Internal Curing of Concrete Bridge Decks and Pavements
309	TR-708B	Develop Evaluation Test Methods and Improve Durability and Crack Resistance of Hybrid Concrete
362	TR-754	Mitigation of Chloride-induced Corrosion Through Chemisorption
364	TR-690	Using Natural Fibers for Internal Curing and Shrinkage Reduction of HPC Bridge Decks & Overlays
371	TR-712	EVALUATE, MODIFY AND ADAPT THE CONCRETEWORKS SOFTWARE (Phase II A and B)
385	TR-663	Modifications to Iowa Concrete Box Beam Standards

## 11. New business

## 12. Meeting Adjourn

The next regular meeting of the Iowa Highway Research Board is scheduled for March 27, 2020 in the East/West Materials Conference Room at the Iowa DOT.

**VG**