**Workshop**

**Advanced Timber Bridge Inspection Techniques**

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**Course Overview**

This short course will provide an extensive overview of timber evaluation practices and procedures to improve inspection and assessment of Iowa and Minnesota’s timber bridges.

The morning session will review bridge types and materials, visual inspection techniques, advanced inspection tools (moisture meters, stress wave timers and resistance microdrills), condition assessment and ratings, integration of results into the Structure Inventory and Inspection Management System (SIIMS), and basic repair information.

In the afternoon, a hands-on inspection of a local timber bridge will familiarize attendees with advanced equipment. Each participant will receive a newly developed Timber Bridge Inspection Manual, a workbook with course notes and the opportunity to operate nondestructive testing (NDT) tools.

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**Short Course Instructors**

**Brian Brashaw**, Program Director,  
Natural Resources Research Institute,  
University of Minnesota Duluth  

**Justin Dahlberg, P.E.**, Bridge Research Engineer,  
Iowa State University  

**Travis Hosteng, P.E.**, Bridge Research Engineer,  
Iowa State University  

**James Wacker, P.E.**, Research Engineer,  
USDA Forest Service, Madison, WI
Workshop Dates & Agenda

Cost
Free to state, county and city employees. Lunch will be provided.

Capacity
To allow for adequate interaction during this hands-on workshop, a maximum of 30 attendees can register at each location. Please limit your registration to 2 individuals.

Class Locations (all classes 9:30 a.m. to 3:00 p.m.)
September 10  ISU – Black Hawk County Extension, 3420 University Avenue, Suite B, Waterloo IA 50701 – Register Here for Waterloo, IA

September 11  Madison County Fairgrounds, Jackson Bldg., 1204 W. Summit St., Winterset IA 50273 – Register Here for Winterset, IA

Agenda
9:30 a.m.  Introduction
9:40 a.m.  Overview of Timber Bridges (Types, Deterioration, Preservation)
10:00 a.m.  Inspection Techniques and Equipment (Visual, Mechanical, Probing, Moisture Content, Stress Wave, Resistance Drilling)
10:50 a.m.  Break
11:00 a.m.  Condition Ratings and Structural Assessment
11:30 a.m.  Integrating Inspection Results in SIIMS
12:00 p.m.  Overview of Repair Options
12:30 p.m.  Lunch and travel to bridge location
1:30 p.m.  Hands on inspection of a local timber bridge
3:00 p.m.  Class adjourned