



FHWA Update

MDOT Update

Local Bridge Program Update

Bridge Replacement on Nine Mile over I-75

Asset Management Guide

3D Laser Scanning

Remote Sensing

Historic Concrete Arch Bridge Rehabilitation

Prestressed Concrete Box Beams

I-35W Collapse



Michigan's
Local Technical
Assistance Program

(906) 487-2102 or Fax (906) 487-3409
www.MichiganLTAP.org



MICHIGAN
BRIDGE
CONFERENCE

March 23, 2011

Big Rapids

Pre-conference Workshop

Bridge Load Rating

8:30 AM – 4:00 PM on March 22

Special Presentation

*A Treasure from the Trash: Construction of the
Portage Lake Bridge*

Dr. Kris G. Matilla, P.E., MTU Associate Professor

7:00 PM on March 22



Local Technical Assistance Program
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U.S. POSTAGE PAID
Permit No. 11
Houghton, Michigan
49931

2011 Michigan Bridge Workshop and Conference

The Michigan Bridge Conference and pre-conference workshop provide information about bridge inspection, research, construction, repair, and management. The workshop and conference will be held at the Holiday Inn and Conference Center in Big Rapids, MI, on March 22 and 23, 2011.

Registration

You must register separately for each event. Seating is limited for both events; please register as early as possible to ensure your participation. To register, call the Michigan LTAP office at (906) 487-2102. Visa and MasterCard are accepted. When registering, please let us know if you have any special dietary needs. Please also indicate whether you plan to attend the Special Presentation on the evening of March 22 (no extra cost to attend).

Cancellation Policy: No-shows and cancellations within three business days prior to the workshop or conference will be charged the full registration fee. Substitutions will be accepted.

Accommodations

A block of rooms has been reserved at the Holiday Inn. The rooms are available on a first come, first served basis at a rate of \$82.00 per room. To reserve a room at this rate, call the Holiday Inn at (231) 796-4400 by March 1, 2011, and mention "Michigan Bridge Conference."

Advance Check-in

To avoid early morning crowds for the conference, you may check in on Tuesday, March 22 from 6:30 to 7:30 P.M.

Cost

Workshop: Bridge Load Rating (Tuesday, March 22)

Employees of Public Agencies	\$75
Employees of Private Companies	\$95

Michigan Bridge Conference (Wednesday, March 23)

Employees of Public Agencies	\$95
Employees of Private Companies	\$120

The costs for each event include break refreshments, lunch, conference materials, and handouts. The registration fee does not include hotel accommodations.

Driving Directions

From the North:

Take US 131 to Exit 139. Head East. The hotel is 1 mile on the right side of the street.

From the South:

Take US 131 to Exit 139. Head East. The hotel is 1 mile on the right side of the street.

From the East:

Take I-96 to US 131 North to Exit 139. Head East. The hotel is 1 mile on the right side of the street.

From the West:

Take M-20 to Big Rapids. The hotel is 1 mile past US 131 overpass on the right side of the street.

Tuesday, March 22, 2011

Workshop: Bridge Load Rating

The National Bridge Inspection Standards (NBIS) Title 23-CFR-650 Section 650.313g requires all states to provide periodic refresher training for persons involved in bridge inspection. As per this requirement, the State of Michigan requires 24 hours of training in the preceding 5 years. With proper documentation, persons who participate in this workshop will receive credit for 6 hours of refresher training; further information regarding documentation will be provided at the workshop. A recent FHWA Program Review of Load Rating and Posting of Michigan Bridges has found that there is a large backlog of local agency bridges that may not be in compliance with load rating requirements. This workshop is intended to provide local agencies and consultants the necessary information, including procedures and tools, to meet compliance. All persons involved in load rating of bridges should plan to attend. Presenters include Robert Kelley (Bridge Management Engineer, MDOT), Creightyn McMunn (Transportation Engineer, MDOT), and Chris Gilbertson, P.E. (Michigan Technological University).

Workshop Agenda • 8:30 AM - 4:00 PM

8:30	Check-in
9:00	Workshop Begins
10:30 - 10:45	Break
12:00 - 1:00	Lunch (Provided)
1:00	Afternoon Session Begins
2:00 - 2:15	Break
4:00 PM	Adjourn

Workshop Topics will include:

- Background Information
- FHWA & MDOT Processes for Determining Implementation
- Requirements for Local Agencies
- VIRTIS Software
- Deadlines for Completing Analysis
- ASR, LRFR, and LFR Methods
- Loads & Loading Configurations
- Hands on Exercises (on paper and with VIRTIS)

Special Presentation:

A Treasure from the Trash: Construction of the Portage Lake Bridge

7:00 PM on Tuesday, March 22 • Grill Room, Holiday Inn - Big Rapids, MI

Dr. Kris G. Mattila, P.E., Associate Professor of Civil and Environmental Engineering at Michigan Tech, will present details on the construction and engineering aspects of the 50 year old Portage Lake Bridge which connects Houghton and Hancock. The focus will be on the pressurized caisson used for three of the piers and on the steel superstructure. The presentation will be done using slides taken during construction.

All are welcome to join Michigan Tech alumni and friends for refreshments and Dr. Mattila's presentation. There is no charge to attend, but please RSVP for planning purposes. Visit huskylink.mtu.edu/techconnectbigrapids2011 or call toll-free (877) 688-2586 to register for the special presentation.

Special presentation hosted by the:



Wednesday, March 23, 2011

Bridge Conference Agenda

8:00	Check-in
8:25	Opening Remarks <i>Moderator, Andrew Swartz, Michigan Technological University</i>
8:30	Federal Highway Administration Update <i>Mark Lewis, Structures/Area Engineer, FHWA—Michigan Division</i>
9:00	Michigan Department of Transportation Update <i>Dave Juntunen, P.E., Engineer of Bridge Operations, MDOT</i>
9:30	Local Bridge Program Update <i>Keith Cooper, Bridge Program Manager, MDOT</i>
10:00	Question & Answer Period—FHWA & MDOT
10:15	Break
10:30	Emergency Bridge Replacement of Nine Mile Bridge over I-75 A Design-Build Success Story <i>Jeremy Hedden, P.E., Project Manager, Bergmann Associates</i> <i>Mario Quagliata, P.E., Bridge Engineer, Bergmann Associates</i>
11:15	Asset Management Guide for Bridges <i>Roger Safford, Region Engineer, MDOT & TAMC Bridge Committee Chair</i>
12:00	Lunch
1:00	Safely and Accurately Surveying Bridges using 3D Laser Scanning <i>Jeffery Wood, P.S., Principle and Director of Surveying, Spicer Group</i> <i>Eric Barden, P.S., Senior Associate and Transportation Survey Team Leader, Spicer Group</i>
1:45	Using Remote Sensing for Bridge Condition Evaluation <i>Tess Ahlborn, PhD, Associate Professor, Michigan Technological University</i>
2:15	Break
2:30	Historic Concrete Arch Bridge - Rehabilitation <i>Amanda Porath, P.E., Northwest Design Group, Inc.</i>
3:15	Stressed Out! Common challenges of inspecting adjacent prestressed concrete box beams <i>Amy L. Trahey, P.E., President, Great Lakes Engineering Group, LLC</i>
4:00	I-35W Collapse: A Forensic Investigation <i>Mark Bagnard, Chief, Investigations Division, National Transportation Safety Board, Office of Highway Safety</i>
5:00	Adjourn