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MICHIGAN  
**BRIDGE**  
CONFERENCE

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**March 21, 2012**  
**Howell, Michigan**

 Center for  
**Technology & Training**



Michigan's  
Local Technical  
Assistance Program

(906) 487-2102

[www.MichiganLTAP.org](http://www.MichiganLTAP.org)

## Conference Topics

- FHWA Update
- MDOT Update
- Local Bridge Program Update
- Bridge Inspection with Infrared
- Working with the 3R's of Historic Bridges
- Preventative Maintenance – Mackinac Bridge Style
- TAMC Bridge Asset Management Guide
- MSE Abutments & GRS Construction Methods
- Wireless Structural Monitoring Technologies for Bridges
- Zilwaukee Bridge – from the Beginning to the Present

### Pre-conference Workshop

*Bridge Inspection*

8:00 AM – 5:00 PM on March 20

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### Special Presentation

*The Mighty Mac: Becoming an ASCE National Historic Landmark*

Dr. Tess Ahlborn, P.E., MTU Associate Professor

7:00 PM on March 20

# 2012 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 Johnson Center on the Cleary University – Livingston Campus, 3750 Cleary Dr., Howell, MI, on March 20 and 21, 2012.

## Registration

You must register separately for each event (see Costs below). Seating is limited; please register as early as possible to ensure you can participate. To register, contact Michigan's Local Technical Assistance Program at the Center for Technology & Training by calling (906) 487-2102. Visa and MasterCard are accepted. Before registering, please consider the following:

- If you have special dietary needs, please notify us in advance and we will accommodate you to the best of our ability.
- You must also register for the special presentation on the evening of March 20 if you wish to attend.
- There will be a free shuttle service available from the hotel to the conference center. Please notify us in advance if you wish to use the shuttle service.

*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 Express located at 1397 N Burkhart Rd. in Howell. Rooms are available on a first-come, first-served basis at a rate of \$79.00 per room. To reserve a room at this rate, call the Holiday Inn Express at (517) 548-0100 by February 27, 2012, and mention the "Michigan Bridge Conference."

## Cost

*Workshop: Bridge Inspection (Tuesday, March 20)*

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

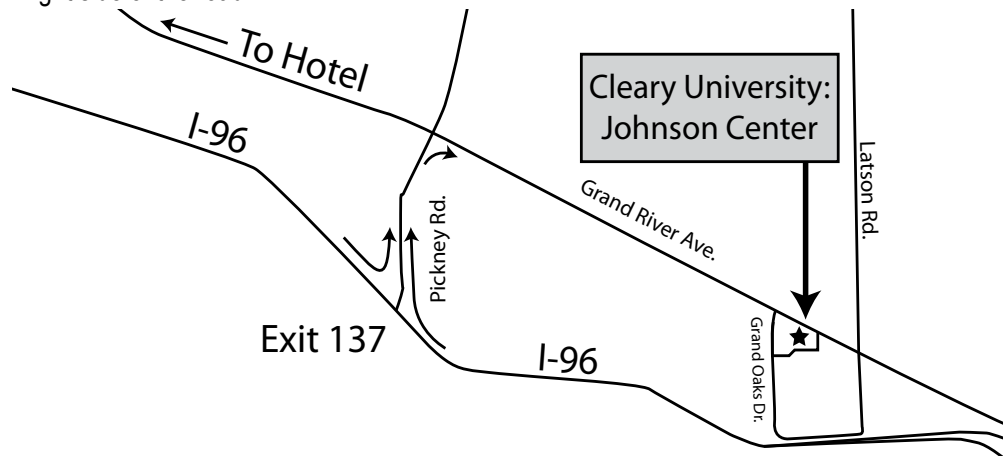
*Michigan Bridge Conference (Wednesday, March 21)*

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.

## Directions to Conference Center

On I-96, approaching from either the east or west, take exit 137 for County D19 towards Howell. At the end of the exit, turn left onto Pickney Rd. After 1.3 miles, turn right onto Grand River Ave. After 2.8 Miles, turn right onto Cleary Drive. The Conference center will be on the right side of the road.



# Tuesday, March 20, 2012

## Workshop: Bridge Inspection

This workshop is intended to provide local agencies and consultants who perform any facet of the bridge inspection process with the latest procedural information. All persons involved in bridge inspection should plan to attend. Presenters include Mark Lewis, FHWA Michigan Division; Richard Katherns, MDOT; Brad Wagner, MDOT; Jim Gaus, MDOT; Amy Trahey, Great Lakes Engineering Group, LLC; and Chris Gilbertson, Center for Technology & Training.

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.

## Workshop Agenda

- 7:30 Check-in
- 8:00 Workshop Begins
- 10:30 Break
- 12:00 Lunch
- 1:00 Afternoon Session Begins
- 2:30 Break
- 5:00 Adjourn

## Workshop Topics

- FHWA/MDOT Bridge Inspection Updates
- Load Rating Requirements
- Procedures for Local Agencies
- MBIS/MBRS
- Inspection Safety
- Calibration

# Wednesday, March 21, 2012

## Bridge Conference Agenda

- 8:00 Check-in
- 8:25 Opening Remarks  
*Moderator, Andrew Swartz, Michigan Technological University*
- 8:30 Federal Highway Administration Update  
*Mark Lewis, Structures/Area Engineer, FHWA: Michigan Division*
- 9:00 Michigan Department of Transportation Update  
*Dave Juntunen, P.E., Bridge Operations Engineer, MDOT*
- 9:30 Local Bridge Program Update  
*Keith Cooper, Bridge Program Manager, MDOT*
- 10:00 Question & Answer Period – FHWA & MDOT
- 10:15 Break
- 10:30 The Application of Infrared for Detecting Delaminations in Bridge Deck and Substructure Elements – Case Studies  
*Jay Ruohonen, President, BridgeGuard*
- 11:15 Working with the 3R's of Historic Bridges – Restore, Rehab, Replace  
*Lloyd Baldwin, Historian, Environmental Section, MDOT*
- 12:00 Lunch
- 1:00 Preventative Maintenance – Mackinac Bridge Style  
*Kim Nowack, Chief Engineer, Mackinac Bridge Authority*
- 1:30 TAMC Bridge Asset Management Guide  
*Roger Safford, Region Engineer, MDOT & TAMC Bridge Committee Chair*
- 2:15 Break
- 2:30 The Use of MSE and GRS Construction Methods in Part-Width Construction – A Case Study  
*Robert Breen, Senior Associate, Bridge/Structural Engineer, Wade Trim*
- 3:15 Wireless Structural Monitoring Technologies for Bridges  
*Jerry Lynch, Ph.D., University of Michigan*
- 4:00 Zilwaukee Bridge—from the Beginning to the Present  
*Matt Chynoweth, P.E., Engineer of Bridge Field Services, MDOT*
- 5:00 Adjourn

## Special Presentation:

### *The Mighty Mac: Becoming an ASCE National Landmark*

7:00 PM, Tuesday, March 20 • Cleary University – Johnson Center, Howell, MI

The Mackinac Bridge was the longest suspension bridge in the world when it was completed in 1957. In 2010 the ASCE recognized the bridge for advancing the civil engineering profession with a new level of aerodynamic stability. Hear about the journey of two Michigan Tech alumni as they are reunited to bring ASCE's prominent national landmark designation to this iconic structure.

All are welcome to join Michigan Tech alumni and friends for refreshments and Dr. Ahlborn's presentation. There is no charge to attend, but please RSVP for planning purposes. To register for this special presentation, please visit [huskylink.mtu.edu/techconnect2012](http://huskylink.mtu.edu/techconnect2012) or call toll-free (877) 688-2586.

