Day 1

Educational Sessions:
Short-span Bridges: Design, Inspection, and Substructure Evaluation

Tuesday, March 20, 2018
8:00 a.m. - 5:00 p.m.

Day 2

Wednesday, March 21, 2018
8:00 a.m. - 5:00 p.m.
Day 1: Tuesday, March 20, 2018
Short-span Bridges: Design, Inspection, and Substructure Evaluation
The sessions on Day 1 of the Michigan Bridge Conference look at how technological and design innovations for bridges under 140 feet can save time and costs for state and local bridge officials. The sessions will cover innovative access techniques for bridge inspections, substructure evaluation case studies, and a recent project that evaluated standardization of secondary-route Michigan bridges. This program will benefit state and local bridge engineers; bridge consultants; and personnel responsible for design, construction, and maintenance of bridges.

7:00 Registration & Breakfast Buffet

8:00 Short-span Steel Bridge Workshop I
Workshop moderator: Rich Tavoletti – Short-span Steel Bridge Alliance
- Online Design Tools: eSPAN140 Demonstration and Design Example
- Steel Bridge Economy and Case Studies
- Galvanizing Steel Bridges
Presenters from Short-span Steel Bridge Alliance include:
  - Greg Michaelson, Marshall University;
  - Karl Barth, West Virginia University;
  - Rich Collins, Ve&S Galvanizing

9:45 Break

10:00 Short-span Steel Bridge Workshop II
- Steel-buried Bridges
- Innovative Accelerated Bridge Construction—Press-Brake Formed Tub Girders
Presenters from Short-span Steel Bridge Alliance include:
  - Joel Hahm, Big R Bridge;
  - Karl Barth, West Virginia University

12:00 Lunch

1:00 Innovative Access Techniques for Bridge Inspections
Tom Howell, PE, HDR
Jason Fogg, PE, HDR

2:00 Importance of Substructure Evaluation—Inspection Case Studies and Techniques

3:00 Break

3:15 Guidelines for Designing Bridges in Michigan Suitable for Local Agencies
Christopher Eamon, PE, Wayne State University

5:00 Adjourn

5:00 Michigan Tech Civil and Environmental Engineering Alumni and Friends Reception
Atrium Room at Weber’s Inn – 5:00-7:00 p.m.

Day 2: Wednesday, March 21, 2018

7:00 Registration & Breakfast Buffet

7:55 Opening Remarks

8:00 Federal Highway Administration Update
Mark Lewis, PE, Federal Highway Administration
Ralph Pauly, PE, Federal Highway Administration

8:30 Michigan Department of Transportation Update
Matt Chynoweth, PE, Michigan Department of Transportation

9:00 Local Bridge Program Update
Keith Cooper, PE, Michigan Department of Transportation

9:30 Question & Answer with FHWA & MDOT

9:45 Break

10:00 Cut River Bridge Masonry Restoration & Fort Rouge Gateway Projects

10:45 Rehabilitation of Side-by-side Concrete Box Beam Structures
John Cima, PE, Houghton County Road Commission

11:30 Steel Bridge Resources & Economical Details
Matthew Shergalis, PE, National Steel Bridge Alliance

12:00 Lunch

1:00 Bridge Asset Management
Dave Jennett, Michigan Department of Transportation

1:30 GRS IBS Bridge Projects
Terry Palmer, PE, Midland County Road Commission

2:15 Break

2:30 Ultraviolet-hardened Slip Linings for Increasing Culvert Strength
Chris Rupinski, PE, Michigan Department of Transportation – Newberry Transportation Service Center

3:15 Designing, Fabricating, Installing, and Using a Clam-shell Box Culvert
Robert Laitinent, Chippewa County Road Commission
Steve Delaire, U.P. Concrete Pipe Company

4:15 Keweenaw Waterway North Entry IRB Full Enclosure Study
William Leder, PE, Michigan Technological University

5:00 Adjourn

Moderator: Chris Gilbertson, PhD, PE, Center for Technology & Training

The 2018 Michigan Bridge Conference counts for 7.5 instructional hours for Continuing Education for Professional Engineers.
Registration

You must register separately for each day. Seating is limited; register early to ensure participation.

**Day 1 (Educational Sessions)**

- **Register HERE**
  - Employees of Public Agencies: $85
  - Employees of Private Companies: $110

**Day 2**

- **Register HERE**
  - Employees of Public Agencies: $85
  - Employees of Private Companies: $110

Visa and MasterCard are accepted. The registration fee includes all sessions and materials for the day, breakfast, lunch, and break refreshments; it does not include hotel accommodations. Please notify us in advance if you have special dietary needs.

A limited number of MDOT participants have been approved to attend. MDOT staff need to contact Sarah Wedley—(517) 335-2993 or wedleys@michigan.gov—to be added to that list prior to registration.

**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.

**Questions?** Contact the Center for Technology & Training at ctt@mtu.edu or (906) 487-2102.

Continuing Education

See the CTT’s policy for Continuing Education for Professional Engineers in Michigan here.

Conference Location & Accommodations

**Weber’s Inn**

3050 Jackson Road | Ann Arbor, Michigan
(734) 769-2500 | www.webersinn.com

Rooms have been set aside for conference attendees at Weber’s Inn in Ann Arbor on a first-come, first-served basis at the group rate of $75.00 per room. To reserve a room at this rate, call the Weber’s Inn at 734-769-2500 and mention Michigan Tech University - Bridge Conference & Workshop event, or book online by visiting www.webersinn.com and using the promotional code MTU32018.

**Directions to Weber’s Inn**

**From the North:** Proceeding southbound on US23 S:
- Take Exit 45: Ann Arbor. Continue 1.5 miles on M14 W/ US23 BUS S.
- Continue onto M14 W. Continue 1.7 miles on M14 W.
- Take Exit 2: Miller/Maple Road.
- Turn left onto Maple Road. Continue 1.5 miles to Jackson Road.
- Turn right onto Jackson Road. Continue 0.75 miles. Hotel is on the left after road divides.

**From the South:** Proceeding northbound on US23 N:
- Take Exit 35: I94 Detroit/Chicago.
- Take Exit 172: Jackson Avenue.
- Turn left onto Jackson Road. Continue 0.5 miles. Hotel is on the left after road divides.

**From the East:** Proceeding westbound on I94 W:
- Take Exit 172: Jackson Avenue
- Turn left onto Jackson Road. Continue 0.5 miles. Hotel is on the left after road divides.

**From the West:** Proceeding eastbound on I94 E:
- Follow I94: Detroit.
- Take Exit 172: Ann Arbor.
- Merge left onto Jackson Road. Hotel is immediately after the end of the exit ramp on the left.