



# Michigan Bridge W E E K

# 2021

Virtual Event

## Day 1—Updates & Conference Sessions

Tuesday, March 16, 2021

8:30 a.m. - 4:00 p.m. ET

## Day 2—MORNING: Conference Sessions

AFTERNOON: Workshop Sessions

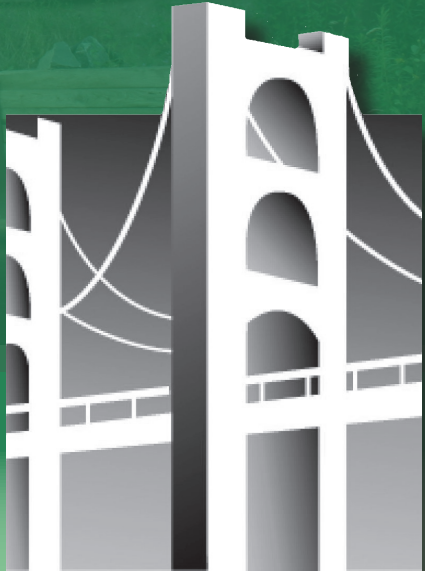
Wednesday, March 17, 2021

8:30 a.m. - 4:30 p.m. ET

## Day 3—Workshop Sessions

Thursday, March 18, 2021

8:30 a.m. - 4:30 p.m. ET



*The Michigan Bridge Week is a multi-day event blending conference sessions and workshop opportunities.*

*The Michigan Bridge Conference sessions covers a range of bridge-related topics that include inspection, construction, and repair techniques; bridge load rating; regulations and requirements; safety; bridge asset management; and the latest in bridge research and innovation.*

*The Michigan Bridge Workshop sessions provide a more in-depth look at specific bridge theory, design, and analysis topics.*

*Employees of government and private agencies are all welcome to attend. The Michigan Bridge Week is hosted by the Center for Technology & Training, home of the Michigan Local Technical Assistance Program and the Michigan Bridge Load Rating Program.*

# Michigan Bridge Week Agenda

## Day 1: Tuesday, March 16 Updates & Conference Sessions

- |   |       |   |
|---|-------|---|
|   | 8:30  | Welcome & Introductions<br>Chris Gilbertson, PhD, PE, <i>Center for Technology &amp; Training</i>   |
| 1 | 8:40  | MDOT Update<br>Matt Chynoweth, PE, <i>Michigan Department of Transportation</i>   |
| 2 | 9:15  | Local Bridge Program Update<br>Keith Cooper, PE, <i>Michigan Department of Transportation</i>   |
| 3 | 9:45  | Q&A with MDOT<br>MDOT Representative(s)   |
|   | 10:00 | Break   |
| 4 | 10:15 | NBIS Update<br>Brian Zakrzewski, PE, <i>Michigan Department of Transportation</i>   |
| 5 | 10:45 | TAMC Update<br>Beckie Curtis, PE, <i>Michigan Department of Transportation</i>  |
|   | 11:30 | Lunch Break   |
| 6 | 12:30 | Bridge Asset Management: The Value of Preservation<br>Dave Juntunen, PE, <i>The Kercher Group</i>   |
| 7 | 1:15  | CFRP Reinforcement<br>Nabil Grace, PhD, PE, <i>Lawrence Technological University</i><br>Brad Wagner, PE, <i>Michigan Department of Transportation</i>                       |
|   | 2:00  | Break   |
| 8 | 2:15  | Development of Traffic Live-load Models for Bridge Rating<br>Sasan Siavashi, PhD, <i>IMEG Corp</i>  |
| 9 | 3:00  | Innovative Accelerated Bridge Construction Project in St. Clair County<br>Guy Nelson, PE, SE, <i>TEGcivil</i><br>Bill Hazelton, PE, <i>St. Clair County Road Commission</i> |
|   | 3:45  | Closing Comments<br>Chris Gilbertson, PhD, PE, <i>Center for Technology &amp; Training</i>  |
|   | 4:00  | Adjourn   |

## Day 2: Wednesday, March 17 Conference Sessions

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|----|-------|--|
|    | 8:30  | Welcome & Introductions<br>Zack Fredin, PE, <i>Center for Technology &amp; Training</i>  |
| 10 | 8:40  | Resources Available from the National Concrete Bridge Council<br>Gregg A. Freeby, PE, <i>American Segmental Bridge Institute</i><br>Reid Castrodale, PhD, <i>Expanded Shale, Clay, &amp; Slate Institute</i> |
|    | 10:15 | Break  |
| 11 | 10:30 | Prestressed Concrete Fabrication<br>Jordan Pelphrey, PE, <i>William &amp; Works</i>  |
| 12 | 11:15 | Specialty/Innovative Precast Solutions<br>Jordan Pelphrey, PE, <i>William &amp; Works</i>  |
|    | 12:00 | Lunch Break  |

## Workshop Sessions

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|----|------|--|
| 13 | 1:00 | Precast Concrete Theory, Design, & Analysis<br>Dan Dowden, PhD, PE, <i>Michigan Technological University</i> |
|    | 4:15 | Closing Comments<br>Chris Gilbertson, PhD, PE, <i>Center for Technology &amp; Training</i>                   |
|    | 4:30 | Adjourn  |

## Day 3: Thursday, March 18 Workshop Sessions

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|----|-------|--|
|    | 8:30  | Welcome & Introductions<br>Chris Gilbertson, PhD, PE, <i>Center for Technology &amp; Training</i>  |
| 14 | 8:40  | Steel Sheet Pile Design<br>Stan Vitton, PhD, PE, <i>Michigan Technological University</i>  |
|    | 12:00 | Lunch Break  |
| 15 | 1:00  | Two-span Steel Plate Girder Bridge Design<br>Upul Attanayake, PhD, PE, <i>Western Michigan University</i>  |
|    | 4:15  | Closing Comments<br>Chris Gilbertson, PhD, PE, <i>Center for Technology &amp; Training</i><br>Zack Fredin, PE, <i>Center for Technology &amp; Training</i> |
|    | 4:30  | Adjourn  |







## Virtual Event

Virtual event access information will be sent to registered attendees via e-mail from the Center for Technology & Training (CTT) closer to the date of the conference. The virtual event will allow you access to attend all technical sessions and to all handout materials. Please pay attention to e-mails you receive from the CTT closer to the date of the virtual event for further details.



## Registration\*

You must register separately for the conference sessions and each of the workshop sessions. Register early to ensure participation.

**Day 1 – Day 2 Morning: Conference Sessions .....**\$50

Register at [ctt.nonprofitsoapbox.com/2021bridge](http://ctt.nonprofitsoapbox.com/2021bridge)

**Day 2 Afternoon – Day 3: Workshop Sessions....**\$75 per session

#13: Register at [ctt.nonprofitsoapbox.com/2021bridge13](http://ctt.nonprofitsoapbox.com/2021bridge13)

#14: Register at [ctt.nonprofitsoapbox.com/2021bridge14](http://ctt.nonprofitsoapbox.com/2021bridge14)

#15: Register at [ctt.nonprofitsoapbox.com/2021bridge15](http://ctt.nonprofitsoapbox.com/2021bridge15)

*Visa, MasterCard, Discover, and American Express* are accepted. The registration fee includes access to all technical sessions, materials, and handouts as listed on the agenda.

MDOT staff with registration questions should contact Sarah Wedley at (517) 636-6144 or [wedleys@michigan.gov](mailto:wedleys@michigan.gov).

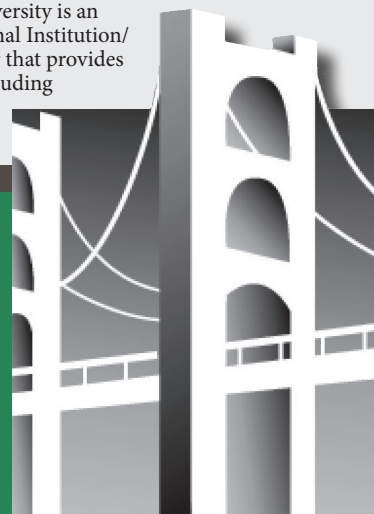
**Questions?** E-mail the CTT at [ctt@mtu.edu](mailto:ctt@mtu.edu).

\* Required for fulfillment of continuing education (Center for Technology & Training policy: [ctt.mtu.edu/Continuing-Education](http://ctt.mtu.edu/Continuing-Education)). The 2021 Michigan Bridge conference sessions (including updates) count for 10 instructional hours of continuing education for professional engineers. The 2021 Michigan Bridge workshop sessions count for 3.5 instructional hours per workshop session of continuing education for professional engineers.

**Cancellation Policy:** No-shows/cancellations within three business days prior to the event will be charged the full registration fee. Substitutions accepted.

**Accommodation requests** related to a disability should be made by ten business days prior to the event to [ctt@mtu.edu](mailto:ctt@mtu.edu).

Michigan Technological University is an Equal Opportunity Educational Institution/ Equal Opportunity Employer that provides equal opportunity for all, including protected veterans and individuals with disabilities.



## Register now for 2021 Michigan Bridge Week!

For Day 1– Day 2 Morning: Updates & Conference Sessions, visit:

<http://ctt.nonprofitsoapbox.com/2021bridge>

For Day Afternoon – Day 3: Workshop Sessions, visit:

Session 13: <http://ctt.nonprofitsoapbox.com/2021bridge13>

Session 14: <http://ctt.nonprofitsoapbox.com/2021bridge14>

Session 15: <http://ctt.nonprofitsoapbox.com/2021bridge15>

**More training opportunities at [ctt.mtu.edu/training](http://ctt.mtu.edu/training)**



Michigan Technological University • Department of Civil & Environmental Engineering

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The Center for Technology & Training is located on the campus of Michigan Technological University. Programs managed by the CTT include the Michigan Local Technical Assistance Program, Roadsoft, the Michigan Engineers' Resource Library, and the Bridge Load Rating Program. The CTT's mission is to develop technology and software, coordinate training, and conduct research to support the agencies that manage public infrastructure. For more information, visit [ctt.mtu.edu](http://ctt.mtu.edu).

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