



Association for Bridge Construction & Design

Northeastern Ohio Chapter – www.abcdneoh.org

Monthly Meeting Notice

Virtual Meeting! Tuesday, November 16th, 2021

All You Need to Know About Cross-frames in Steel Bridges



Speaker(s): Brandon Chavel, Ph.D, P.E.
Director of Market Development, National Steel Bridge Alliance

Program: Virtual Meeting:
Cross-frames and diaphragms are important steel bridge components as they provide stability to primary longitudinal girders and improve lateral or torsional stiffness and strength of the bridge system during construction and in-service. In horizontally curved bridges they transfer forces between adjacent girders to provide equilibrium; and in straight bridges they have been historically designed to transmit wind loads. Over the last few years, the steel bridge industry has seen a general increase in the size of cross-frames used in steel I-girder bridges across the country, in terms of both the individual member sizes and the connections themselves, resulting in significant inefficiencies. On a cost per pound basis, the cost to fabricate cross-frames can be the most expensive part of any steel girder bridge project. This presentation will review the design history of cross-frames, and then provide guidance to designers so that they can make better choices regarding cross-frame layouts, type, members, connections as well as loads, analysis, and design.

A secure meeting link will be emailed to virtual meeting participants prior to the meeting.

Virtual: 11:50 AM – 12:00 PM Log on to the Webinar
12:00 PM – 1:00 PM Presentation
1:00 PM – 1:15 PM Q&A

Cost: There is no cost for the Virtual Presentation.

RSVP Links: [Virtual Presentation – Tuesday, November 16th, 2021 at Noon](#)
(Please RSVP by Monday, November 15th end of day)

One (1) Continuing Professional Development hour will be provided. If you attend and wish to obtain CPD credit, please go to our website (<http://www.abcdneoh.org/professional-development.html>) following the meeting to obtain the attendance sheet and announcement.

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