



Monthly Meeting Notice

Wednesday, March 4, 2015

Design and Construction of a Curved and Severely Skewed Steel I-Girder Bridge



Speaker: Brandon Chavel, Ph.D., P.E.
HDR

Program: The Illinois Tollway East-West Connector (EWC) Ramp carries traffic from northbound I-294 to westbound I-88. The steel superstructure is a three-span continuous steel plate girder bridge spanning over the I-88 expressway on a horizontally curved alignment and at a severe 60 degree skew, resulting in a maximum girder span length of 251ft. This presentation will focus on the mitigation of curvature and skew effects by varying the depth of the girders across the cross-section; reducing transverse loads through a unique cross frame arrangement; uplift concerns; and the investigation of a conceptual erection sequence provided in the contract plans due to significant maintenance of traffic constraints. Differences between 2D and 3D finite element analyses for the EWC Ramp will also be discussed, in combination with guidance provided in NCHRP Report 725 for the modeling of curved and skewed steel I-girder bridges.

Location: The Flat Iron, 1114 Center Street, Cleveland, Ohio 44113

Lunch: Selection of hamburger or chicken sandwich with toppings, rigatoni, garden salad, coffee/tea/soda, and dessert.

Time: 11:30 a.m. – 12:00 p.m. Registration
12:00 p.m. – 12:30 p.m. Lunch
12:30 a.m. – 1:15 p.m. Registration

Cost: \$17 paid via Eventbrite, \$19 at the door – ABCD Members/Students
\$23 paid via Eventbrite, \$25 at the door – Non-Members & Guests
There is no charge for government agency attendees that are also ABCD members.

RSVP: [Eventbrite](https://www.eventbrite.com) or QR Code →



One half (0.5) Continuing Professional Development hour will be provided. If you attend and sign in at the meeting, and wish to obtain CPD credit, please go to our website (<http://www.abcdneoh.org/professional-development.html>) following the meeting to obtain the sign-in sheet and announcement.

Kindly RSVP by 5:00pm Monday, March 2, 2015

No-shows and Cancellations after the reservation deadline may be billed.

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