Event Meeting Agenda 2024 – November 12-14 – Chicago, IL

AGENDA - REV 10 SEP 2024

Times, descriptions, and presenters may change.

DAY 1 (Tuesday) November 12th, 2024

NCSC States Council Meeting
2:30-4:45

Closed meeting for State and Authority representatives

EVENING RECEPTION & REGISTRATION
5:00pm – 7:00pm

This is the first opportunity to network with new industry partner providers and new and existing contacts with industry professionals in the Lakeshore ballroom foyer.

DAY 2 (Wednesday): November 13th 2024

7:00am – 7:45am

A continental breakfast will be available in the main meeting area for all attendees

7:45am – 8:15am

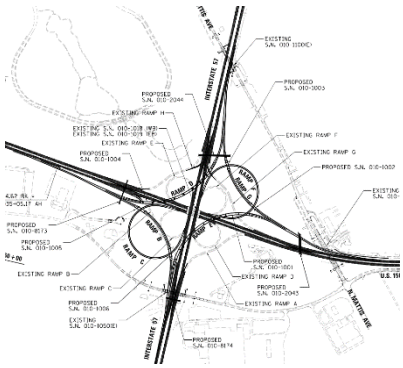
A special welcome from
Mark Shaffer, Engineer of Bridge Design, Illinois DOT, and from
Frank Sharpe, Assistant Division Bridge Engineer, FHWA Illinois Division, and from
Michael Brink, P.E., S.E., Senior Project Engineer, Illinois Tollway

8:15am – 9:15am

Presentation – IDOT I57/74 Interchange Reconstruction Champaign County - Project Review – Fabrication and Construction

This project will be close to completion by the time of our NCSC meeting. The metalizing contractor has several girders to complete.

The project has large flyover rams, curved girders and some interesting issues with construction. IDOT will cover the construction side and Delong's will address fabrication of this project.



Presented by Mark D. Shaffer, P.E., S.E., Engineer of Bridge Design, Bureau of Bridges and Structures, Illinois Department of Transportation, and Gary Wisch, PE Vice President, Engineering, DeLong's, Inc.

9:15am – 10:00am

Presentation - Achieving Speed in Steel – Opportunities from Design to Delivery

When it comes to achieving speed in steel bridge fabrication, is it simply a matter of faster cutting, fitting, welding, and drilling? Or is there a role for owners, designers, and general contractors to play? Find out about the key resource you can use and things that you can do to either accelerate your project or simply keep it on schedule.

The NSBA recently published the new guide "Achieving Speed in Steel Bridge Fabrication". This presentation will describe the process outlined in this guide along with other strategies for executing a successful steel bridge process.

Presented by Chris Garrell PE, Chief Bridge Engineer – NSBA/National Steel Bridge Alliance

10:00am – 10:30am

MORNING BREAK

Lakeshore ballroom foyer

10:30am – 11:45am

Presentation – Engineering in times of crisis

The presentation highlights examples from the emergency response and repair of major steel bridges including the Sherman Minton Bridge in Louisville, KY, the PA NJ Turnpike Connector Bridge near Bristol, PA, and the Hernando De Soto Bridge in Memphis, TN. Each of these projects was an emergency response where engineers, NDT personnel, fabricators, and contractors were called upon to respond to a field emergency, each the result of an inspection finding. In the case of the Sherman Minton Bridge, a significant number of internal weld defects were found during an in-depth inspection and the project eventually grew in scope to an emergency closure and strengthening of the bridge. In the case of the PA NJ Turnpike Connector Bridge, a full fracture was discovered by a painting crew, leading to immediate closure, emergency inspection of hundreds of welds, and bridge repair. And for the Hernando De Soto Bridge, bridge inspectors discovered a partial fracture of the main tie girder carrying the main span over the Mississippi River. This required an immediate bridge closure, inspection of all similar welds in the bridge, and emergency repair. The engineering and construction challenges for these projects are highlighted. The collaboration of all parties was notable in restoring these critical lifeline bridges in record time.

Presented by Francesco Russo **PhD PE,** Founder and Principal, Russo Structural Services.

11:45am – 12:30pm

Lunch Break

Lakeshore ballroom foyer

12:30pm – 12:50pm

Welcome and presentation of IDOT project review from Jayme Schiff Bureau Chief, Bureau of Bridges and Structures Illinois DOT

12:50pm – 2:15pm

Presentation- Blackhawk Bridge

Iowa DOT project managers will present an introduction to the project sharing "how we got here" and how the project was driven by the public interest.

A joint presentation by General Contractor Kraemer North America and Steel Truss Fabricator Industrial Steel Construction, Gary Indiana will highlight the construction and fabrication successes and challenges. This is a signature bridge from Allamakee County / Lansing Iowa - Iowa 9 to Wisconsin 82 over the Mississippi River, with an overall length of 1352 feet and 5440 tons of steel.

This project is a stellar example of the benefits of the DOT, Contractor and Fabricator transparency and collaboration for the completion of projects.

Presentation by

Tom Ringelstetter, VP of Quality and Engineering, Kraemer Nort America,

Ben Bristol, Director of Quality & Field Support, Industrial Steel Construction

2:15pm – 2:30pm

Presentation – AISC Update

Todd Alwood, VP Membership & Certification, American Institute of Steel Construction, Todd will discuss AISC's workforce development initiative, new young fabricator education, certification developments, and the updated coating standard.

2:30pm – 3:00pm

Presentation - Metalizing Updates

If you haven't revisited the choice for metalizing as a coating recently, you may want to take a second look. You may find it competitive with both galvanizing and liquid coating processes' if applied to the right projects

Cost per square foot may be lower than most would estimate in comparison with galvanizing. Esthetics are also improved with a 100% automated metalizing process. If the project includes later duplex coating, that process may be easier as the profile is already part of the coating surface potentially comparable to a fresh SP10 blast.

The presentation will also briefly review the basics of the process and the importance of process control to deliver enduring adhesion is key and has been improved significantly. There is no need for a field applied top coat making it a great choice for metropolitan areas. The result is a 75-year coating that does not need maintenance.

Also check out the AASHTO/NSBA guide spec S8.2- 2017/SSPC-PA 18 - *Specification for Application of Thermal Spray Coating Systems to Steel Bridges*

Presented by Ben Bristol, Director of Quality & Field Support, Industrial Steel Construction

3:00pm – 3:30pm

Presentation – FHWA role in bridge engineering/construction

How does FHWA help deliver bridge improvements? How does FHWA monitor bridge safety for the traveling public? FHWA is not only a source of funding for bridge projects. FHWA also provides research, inspection, and technical guidance to further improve the bridge industry in the United States.

Frank Sharpe, FHWA Illinois Division

3:30pm – 3:50pm

Afternoon Break
Lakeshore ballroom foyer

3:50pm – 4:10pm

Presentation - Illinois Tollway
Hear about current and future Tollway projects and how the Tollway operates, codes and standards used and briefly about the organizational structure.
Michael Brink, P.E., S.E., Senior Project Engineer, Illinois Tollway

4:10-4:15

NCSC WEBSITE and DISCUSSION BOARD

4:15pm – 4:45pm

Presentation – UT Examination of Anisotropic Steel

Ultrasonic Testing of Anisotropic Bridge Steel: Problems, Dangers and Solutions

This presentation will answer the question, "What is Anisotropic Bridge Steel and why is it important to the bridge fabrication industry?" Anisotropic Steel presents unique challenges for the Ultrasonic Testing of welds. These technical challenges will be described along with the potential dangers that they pose to the safety and longevity of fabricated steel bridge girders. Various solutions that are currently being investigated by the bridge fabrication industry along with the status of various industry group efforts to address the problem and develop workable and practical solutions will be described.

Presented by Ray Momsen, VP Transportation & Infrastructure Division, Bureau Veritas

4:45pm – 5:15pm

Presentation - Pre-Fabricated Steel Bridges and Accelerated Bridge Construction

Steel bridges meet owners' and the public's desire for economy, aesthetics, performance and accelerated construction. Bridge manufacturers and fabricators have developed innovative, efficient and economical solutions to meet typical and complex bridge project needs. Several bridge projects from manufacturers and pre-fabricated built bridges will be showcased to demonstrate their merits in bridge quality and accelerated construction. Accelerated Bridge Construction (ABC) uses planning, design, material selection, and construction methods to reduce the onsite construction time and mobility impacts that occur when building new bridges or replacing and rehabilitating existing bridges. Prefabricated truss, modular rolled-beam, folded-plate tub girder and buried steel bridges will be highlighted.

Presented by the SSSBA Short Span Steel Bridge Alliance by Michael G. Barker, PE, Civil & Architectural Engineering Professor, University of Wyoming

5:15pm – 5:30pm

Future Work! States discuss their future lettings and plans

5:30pm

End of Scheduled Day
Evening on your own

DAY 3 (Thursday): November 14, 2024

Continental “Grab and Go” Breakfast – Available from 6:00am – 7:30am
Lakeshore ballroom foyer

Breakfast sandwiches and beverages packaged to travel will be available on Thursday morning. Plan to eat it on the way or early before you depart.

Fabrication Shop Tour

86 North Bridge Street, Gary, Indiana 46404

Conference Organization – Website – Discussion Board Sponsor