

2017 National ABC Conference – Pre-Conference Workshops

W-09: Recent Developments in Steel ABC Applications

Wednesday, December 6, 2017 – 1:00 p.m. to 5:00 p.m.

Introduction:

Up-to-date information will be presented on the design and construction of steel bridges using the latest design tools and technology to incorporate considerations for efficient, economical fabrication and construction. Included will be advances in assembly and erection of steel bridges for ABC projects, case studies featuring items of interest to both the Engineer of Record and the Construction Engineer, optimized steel girder implementation, changes to design of bolted field splices as adopted in the latest AASHTO design specifications, and summary of steel availability across North America.

Workshop Organizer:

Christopher Garrell, P.E., National Steel Bridge Alliance

Program:

1:00 p.m.	Welcome and Introduction to Workshop	Moderator – Christopher Garrell, P.E.
1:05 p.m.	Over-Water Crossing Bridge Replacements	David Rogowski, P.E.
1:50 p.m.	Material Availability and Guidelines	Christopher Garrell, P.E.
2:15 p.m.	Press Brake Tub Girder Bridges in Muskingum County	Douglas Davis, P.E., P.S.
2:45 p.m.	<i>Break</i>	
3:00 p.m.	Updates to Bolted Splice Design Specifications – AASHTO LRFD 8 th Edition	Christopher Garrell, P.E.
3:20 p.m.	Utah’s experience with ABC Steel bridges	Mike Arens, P.E.
4:10 p.m.	Prefabricated Deck Beam Elements	Mike Culmo, P.E.
5:00 p.m.	Adjourn	

Speakers & Bios, W-09: Recent Developments in Steel ABC Applications

Christopher Garrell, P.E., Garrell@steelbridges.org (Organizer & Moderator)

Christopher is currently the Southeast Regional Director for the National Steel Bridge Alliance where his responsibilities include supporting state transportation officials and design consultants on issues spanning the lifecycle of steel bridges. He is active on many bridge related committees and is secretary of TRB's Standing Committee on Steel Bridges (AFF20). Prior to joining the NSBA, Christopher spent 12 years working for Bentley Systems where he was a Product Manager for Structural Engineering - BIM. Before joining Bentley, he was a Bridge Engineer with STV, Incorporated. He has a BS - Civil Engineering from the University at Buffalo, an ME -Software Engineering from Penn State and an MS - Systems Engineering also from Penn State.

Michael S. Arens, P.E., marens@mbakerintl.com

Michael is a Vice President with Michael Baker International in Salt Lake City, UT. He is a graduate of the South Dakota School of Mines and Technology and has 20 years of experience in Transportation and Bridge design and construction. Michael has worked extensively in the development of Accelerated Bridge Construction (ABC) since 2006, beginning with the design of UDOT's first bridge installation using SPMTs. Michael then helped develop UDOT's first lateral bridge slide and first bridge launch over I-15. Michael also worked with UDOT and FWHA to develop the Slide-In Bridge Construction (SIBC) Guide.

Michael P. Culmo, P.E., culmo@cmeengineering.com

Mike is Vice President of Transportation and Structures with CME Associates, Inc. He has over 34 years of experience in the design of steel, concrete, prestressed concrete and timber bridges, and has been responsible for directing a structures and transportation design department on new expressway bridges, bridge rehabilitation, and related highway structures. He has special expertise in the field of accelerated bridge construction technologies. Mike holds a Bachelor's degree in Civil Engineering and a Master's degree in Structural Engineering, both from the University of Connecticut. He is a licensed professional engineer.

Douglas Davis, P.E., P.S., davis.mceo@rrohio.com

Doug is currently Muskingum County Engineer and President of the Ohio County Engineers Association. He is both a licensed as Professional Engineer and Professional Surveyor. His professional experienced includes water, wastewater, structures, roadway, land development and project management. Lastly, Doug serves as an Adjunct Professor for Zane State and Ohio University.

David M. Rogowski, P.E., DRogowski@genesisstructures.com

David was a founding principal of Genesis Structures in 2004 and brings over 29 years of experience in the design and management of unique bridge projects. He is a registered professional engineer in 18 states and has specialized in the design and construction of unique, long-span bridge structures, has managed design offices and departments of 32 staff and has been involved in many major bridge projects.