North Carolina Steel Bridge Forum

September 14, 2011
8:00am to 5:00pm

McKimmon Center - NC State University

Sponsors

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

HDR

NATIONAL STEEL BRIDGE ALLIANCE NSBA FOUNDED 1995

HIRSCHFELD INDUSTRIES

Georgia Tech College of Engineering

Faculty

Domenic Coletti, PE

Coletti received his BSCE from Carnegie Mellon University in 1987 and his MSCE from the University of Texas at Arlington in 1999. He has 24 years of structural engineering experience covering a wide range of steel and concrete bridge types and applications. He served as the Co-Principal Investigator for NCHRP Research Project 12-79 comparing analysis methods for curved and skewed steel girder bridges, and is the Chairman of Task Group 13 - Analysis of Steel Bridges, of the AASHTO/NSBA Steel Bridge Collaboration. He works for HDR Engineering in their Raleigh, NC office as a senior bridge engineer.

Karl Frank, Ph.D., PE

Dr. Frank is widely regarded as one of the world's foremost authorities on the design and behavior of structural steel bridges. As a researcher, Professor of Civil Engineering and Director of Ferguson Structural Engineering Lab at the University of Texas at Austin, he made extraordinary contributions to improving the understanding of the fatigue and fracture behavior of structural steel. In 2010, upon retirement from the University of Texas, Dr. Frank joined Hirschfeld Industries as Chief Engineer. There he is working on development of a virtual assembly of steel bridge girders, implementation of electroslag welding and fatigue evaluation of marking systems for fabricated steel. In 2011, Dr. Frank received the Lifetime Achievement Award from the American Institute of Steel Construction (AISC).

Christopher Garrell, PE, LEED AP

Garrell is currently the Southeast Regional Director for the National Steel Bridge Alliance (NSBA) where his responsibilities include supporting state transportation officials and design consultants on issues spanning the lifecycle of steel bridges. Prior to joining the NSBA, Mr. Garrell 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.

William McEleney

McEleney is the Director of the National Steel Bridge Alliance, a division of the American Institute of Steel Construction. He represents the steel bridge fabricating industry on matters of steel bridge fabrication and construction. Located in Rhode Island, he is responsible for all regional staff and activities. Prior to joining NSBA in 1997, he spent 10 years as a Regional Engineer for the American Institute of Steel Construction. He is a graduate of the University of Rhode Island and holds a Bachelor of Science Degree in Civil Engineering.

Faculty (Con't)

John O'Quinn

O'Quinn is currently a Senior Vice President at Hirschfeld Industries, located in Greensboro, NC. His professional career spans more than 30 years; much of it within the structural and bridge fabrication industry. Mr. O'Quinn's expertise include management, plant operations, estimating and sales. He currently serves on the Executive Council for the National Steel Bridge Alliance (NSBA).

Donald White, Ph.D.

Dr. White is a Professor at the School of Civil and Environmental Engineering (CEE). He has been a member of the CEE faculty at Georgia Tech since 1997. Prior to joining Georgia Tech, he served on the faculty at the Purdue University School of Civil Engineering from 1987 to 1996. He received his doctorate in Structural Engineering from Cornell University in 1988, and is an alum of North Carolina State University. Prior to graduate study, Dr. White worked as a structural engineer with J.E. Sirrine Company and with Carolina Power and Light Company in Raleigh, North Carolina. Dr. Whites research covers a broad area of design and behavior of steel and composite steel-concrete structures as well as computational mechanics, methods of nonlinear analysis and applications to design.

Agenda

800am - 815am	Introduction	C. Garrell
815am - 900am	Structural Behavior of Steel	D. White
900am - 1000am	Splice Design	K. Frank
1000am - 1030am	Morning Break	
1030am - 1200pm	Guidelines for Steel Girder Analysis	D. Coletti
1200pm - 130pm	Lunch	
130pm - 215pm	Design for Constructability Guidelines	C. Garrell
215pm - 300pm	Steel Bridge Fabrication	J. O'Quinn
300pm - 330pm	Afternoon Break	
330pm - 415pm	Weathering Steel / Corrosion Protection of Steel Bridge	W. McEleney
415pm - 445pm	Sustainability*	W. McEleney
445pm - 500pm	Closing	C. Garrell

Material Download

http://www.steelbridges.org/NCSteelBridgeForumFall2011

* As time permits.

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