

September Meeting Announcement – Spouse Night

Day / Date: Thursday, September 21st, 2017

Location: Grand Concourse

Address: 100 West Station Square Drive, Pittsburgh PA 15219

Time: 6:00 PM - 08:30 PM

Speaker: Roger Eaton, PE Associate Vice President HDR

Topic: "Liberty Bridge Fire Emergency"

Registration Fee:

	ASM Member	Non ASM Member	ASM Retired	Material Advantage Member
With RSVP	25	30	15	10
Late RSVP/walk-in	30	35	20	15

Meal choice: Grilled Salmon, Lemon Chicken, Vegetable Curry

Register RSVP with meal choice by 9/19/2017 to: Piyamanee Komolwit: pkomolwit@uss.com. (Meal choice is not guarantee for reservation made after 9/14/2017.)

<u>Payment</u> Pay cash or check at the door. If you would like to pay ahead of time, the link below may be used. Online Payment Link:

http://www.asminternational.org/search/-/journal_content/56/10192/20897079/PUBLICATION

Agenda:

6:00 – 6:45 PM – Social & Registration

6:45 - 7:30 PM - Dinner

7:30 – 8:15PM – Presentation by Roger Eaton

8:15 – 8:30 PM – Announcements and wrap up

"Liberty Bridge Fire Emergency"



On the afternoon of September 2, 2016, clouds of black smoke filled the Monongahela River valley, as the Liberty Bridge in Pittsburgh burned. The 2,600' deck truss bridge was in the midst of an \$80M rehabilitation project when a fire broke out under a key bottom chord member carrying two million pounds of compression. Before it could be extinguished, the fire severely warped and buckled the compression chord, causing the affected truss to shift and redistribute load throughout the structure.

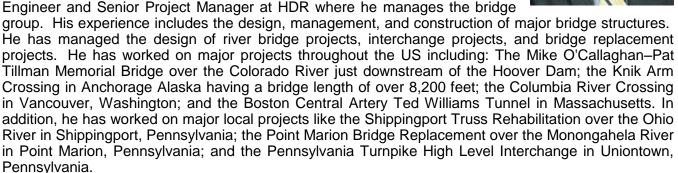
As the designer for the rehabilitation work, HDR worked with PennDOT District 11 and several other consultants and universities to orchestrate an emergency repair of the truss. This repair required jacking the bridge structure axially to restore the global geometry, laterally to correct a rotated truss panel joint, and locally to remove the buckles in the member web due to plastic deformation.

Speaker

Roger Eaton, P.E. Associate Vice President, HDR

Roger received his Bachelor of Science degree in Civil Engineering Technology from University of Pittsburgh at Johnstown in 1990 and performed his post graduate work at the University of Pittsburgh.

He is an Associate Vice President, Professional Associate, Senior Bridge Engineer and Senior Project Manager at HDR where he manages the bridge



Roger is currently a one year director at the ASHE Mid-Allegheny section. He is the recipient of the 2016 Diamonds Awards for Engineering Excellence from ASCE/PA. He is one of the authors on the Steel Bridge Design Handbook, Design for Constructibility, issued by U.S. D.o.T, Federal Highway Administration and the Steel Bridge Fabrication Guide Specification, issued by the American Association of State Highway and Transportation Officials and National Steel Bridge Alliance.







