



**September Meeting Announcement – Spouse Night**

**Day / Date:** Thursday, September 21<sup>st</sup>, 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:**

	<b>ASM Member</b>	<b>Non ASM Member</b>	<b>ASM Retired</b>	<b>Material Advantage Member</b>
<b>With RSVP</b>	25	30	15	10
<b>Late RSVP/walk-in</b>	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](mailto:pkomolwit@uss.com). (Meal choice is not guarantee for reservation made after 9/14/2017.)

**Payment** 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](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 group. His experience includes the design, management, and construction of major bridge structures. He has managed the design of river bridge projects, interchange projects, and bridge replacement projects. He has worked on major projects throughout the US including: The Mike O'Callaghan–Pat Tillman Memorial Bridge over the Colorado River just downstream of the Hoover Dam; the Knik Arm Crossing in Anchorage Alaska having a bridge length of over 8,200 feet; the Columbia River Crossing in Vancouver, Washington; and the Boston Central Artery Ted Williams Tunnel in Massachusetts. In addition, he has worked on major local projects like the Shippingport Truss Rehabilitation over the Ohio River in Shippingport, Pennsylvania; the Point Marion Bridge Replacement over the Monongahela River in Point Marion, Pennsylvania; and the Pennsylvania Turnpike High Level Interchange in Uniontown, Pennsylvania.

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.

