

Monthly Meeting Notice

Thursday, December 3, 2009

Forensic Investigation of the I-35W Bridge and Application of Findings to Long Span Trusses

Speaker: Wes Weir, P.E., TranSystems

Program: On August 1, 2007 the I-35W Bridge, a 1000' long, 3-span continuous deck truss, carrying 8 lanes of rush hour traffic over the Mississippi River, suddenly collapsed, resulting in 13 deaths. As part of the Structural Investigation Group that also included NTSB, FHWA, MNDOT, and Wiss Jenny Engineers, TranSystems was assigned the tasks of field marking and cataloging the failed truss members, guiding reassembly in a nearby lay-down yard, and the preparation of a 3-dimensional global model for finite element analysis of the bridge.

In the course of the investigation, NTSB and FHWA issued directives to the state DOT's to conduct inspections of gusset plates on in-service deck trusses, and issued guidelines for the inspection and analysis of the gusset plates. The final NTSB Report identifies the probable cause of the collapse as the inadequate load capacity, due to design error, of certain gusset plates, which failed under a combination of (1) substantial increases in the weight of the bridge from previous modifications, and (2) the traffic and concentrated construction loads on the bridge at the time of collapse.

The presentation will be a review of the failed conditions, the structural model, the analysis, and the findings of the I-35W failure investigation, and the application of these findings to a follow-on project – The Jeremiah Morrow Bridge, in Cincinnati, Ohio, a 2200' long continuous deck truss, for which TranSystems performed the inspection, load testing, structural modeling, and gusset plate analysis.

Location: The Quality Inn, 4742 Brecksville Road, Richfield, OH, 330-659-6151

Dinner: Will be a buffet consisting of Chilled Garden Salad with an Assortment of Condiments and Dressings, Chicken Cordon Blue, Fresh Pork Loin, Pasta Marinara, Garlic Smashed Potatoes, Medley of Fresh Garden Vegetables, Rolls and Butter, Coffee, Hot Tea and Ice Tea and Dessert.

Time: 5:30 p.m. - 6:30 p.m. Social Hour (Cash bar)
6:30 p.m. - 7:30 p.m. Dinner
7:30 p.m. Speaker

Cost: \$20.00/person – Government Agency Members
\$30.00/person – ABCD Members \$35.00/Person – Non-Members and Guests
\$10.00/person – Student ABCD Members \$20.00/Person – Student Non-Members

RSVP: Contact Elaine Magoch at (216) 771-1090 x261, or email: emagoch@DLZ.com

One (1) Continuing Professional Development hour will be provided for this presentation. If you attend and sign in at the meeting, and wish to obtain CPD credit, please go to our website (<http://www.abcdneoh.org/PD.htm>) following the meeting to obtain the sign-in sheet and announcement.

Please RSVP by November 30, 2009

No-shows and Cancellations after the reservation deadline may be billed.





















2009-2010 OFFICERS

President: Daniel Baxter, P.E., Michael Baker Jr. Inc.
Vice-President: Jonathan Hren, P.E., TranSystems
Secretary: Jeff Ackerman, P.E., Burgess and Niple
Treasurer: Patrick Toman, P.E., DLZ

Directors:
Bob Beasley, P.E., Arcadis
Brendan Finn, P.E., Cuyahoga County Engineers Office
Jonathan Hren, P.E., TranSystems
Shelly Kendrick, P.E., Arcadis
Jeff Lechak, P.E., Parsons Brinckerhoff
Mike Russell, P.E., S.E., Wilbur Smith


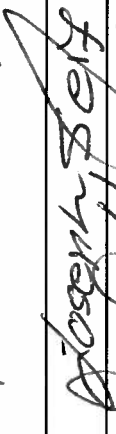






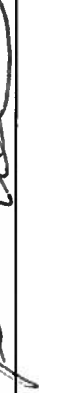
List of Attendees for December 3, 2009 ABCD Meeting

To document your attendance at tonight's meeting, please sign below.

No.	Name	Group	Signature
1	Daniel Baxter	Michael Baker Jr., Inc.	
2	Bob Beasley	Arcadis	
3	Jason Burgholder	Richland Engineering	
4	Joshua Burks	URS	
5	John Cleary	Case Western Reserve University	
6	Brendan Finn	Cuyahoga County Engineer's Office	
7	Scott Flaten	U.S. Bridge	
8	Eric Forsberg		
9	David Fryauff	Burgess & Niple	
10	Brian Gilhouse	Parsons Brinkerhoff	
11	Don Glosser	CMT	
12	Jonathan Hren	TranSystems	
13	Kent Kapustar	Richland Engineering	
14	Bill Kish	Great Lakes Construction	
15	Jeff Leake		
16	Rod Lemasters	U.S. Bridge	
17	George Maki	E.L. Robinson	
18	Michael Malloy	K.S. Associates	
19	Dana Miller	Great Lakes Construction	
20	Jon Moorehead	U.S. Bridge	

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No.	Name	Group	Signature
21	James O'Leary	HNTB	
22	Dean Palmer	Richland Engineering	
23	Joseph Seif	ODOT District 12	
24	David Timmer	Richland Engineering	
25	Patrick Toman	DLZ Ohio, Inc.	
26	Jason Tucker	Great Lakes Construction	
27	Wes Weir	TransSystems	
28	Yumin Yin	Wilbur Smith	
29	Peter Lee	NTH Consultants	
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