

June 2013 Newsletter



THE STRUCTURAL ENGINEERS ASSOCIATION OF TEXAS

DALLAS CHAPTER

www.seaot.org

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June meeting sponsor:

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Meeting Info

Date: June 25, 2013

Doors open and

networking: 6:00 p.m.

Dinner: 6:30 p.m.

Program: 7:00-8:00 p.m.

Location:

Cityplace Conference Center
2711 North Haskell, Dallas, TX

Cost:

Members: \$30

Non-Members: \$35

Students: \$10

No Meal: \$10

The meal is now buffet style.

Parking is included with your registration. Pick up a validated parking ticket at the registration table. ***Underground parking entrances are located on the streets around the tower. All entrances lead to the one garage.***

Reservations

Register [on-line](#) by 12 noon on
Monday, June 24, 2013.

Cancellations must be made by the same day and time.

Please indicate the names of all attending.

"A Framework for Historic Bridge Preservation"

Dr. Mary Beth Hueste

Tuesday, June 25, 2013

7:00 to 8:00 p.m.

In an inevitably occurring process, bridges possessing historic, artistic, and engineering significance deteriorate and must be maintained and rehabilitated in order to be kept in service. Ideally, all potentially significant bridges would be properly preserved and continue to beautify and bring character to their surroundings for years to come. However, funding is currently limited for transportation projects in general, and even more so for historic bridge preservation, which some may consider less critical in comparison to other transportation needs. Because of this limitation on resources, it is important that bridge-owning agencies use proper planning and management strategies in order to make the best use of available funding. A framework for historic bridge preservation was designed to assist agencies in this process. The framework is devised specifically for the TxDOT Fort Worth District for use in Tarrant County, Texas, but can be used as a model for programs anywhere. Included in the framework are a methodology for prioritization of bridges within an inventory, identification of potential funding sources and state procedures, summary and review of condition assessment practices and bridge mitigation strategies, a template for individual bridge preservation plans, and a framework for resource allocation within a bridge inventory. This presentation will provide an overview of the developed historic bridge preservation framework and will highlight results of the bridge prioritization process for Tarrant County.

Speaker:

Dr. Mary Beth Hueste is a Professor in the Zachry Department of Civil Engineering at Texas A&M University. She joined Texas A&M in 1998 where she is a member of the structural engineering faculty and Division Head for the Construction, Geotechnical and Structural (CGS) Division. Dr. Hueste is also the Structures Program Manager and Acting Division Head for the CGS Division within the Texas A&M Transportation Institute. She is a Fellow of the American Concrete Institute (ACI) and Chair of ACI-ASCE Committee 352 (Joint and Connections in Monolithic Concrete Structures). Her research interests include historic bridge preservation, design and evaluation of prestressed concrete bridge structures, structural rehabilitation and repair, and performance-based seismic design of concrete structures. She has authored or co-authored over 60 technical papers and reports. *(Continues on page 2)*



June 2013 Newsletter

Mary Beth Hueste (continued from page 1)

Dr. Hueste has over five years of experience as a practicing structural engineer, and is a registered professional engineer in Kansas and Texas. She teaches undergraduate and graduate courses in structural engineering, including reinforced concrete design, prestressed concrete design, and capstone design. Dr. Hueste was recognized with the Zachry Award for Excellence in Teaching from the Department of Civil Engineering (2001-2002). The Texas A&M Engineering Program named her the Ruth and William Neely '52/Dow Chemical Faculty Fellow (2004) and the Williams Brothers Construction Company Fellow (2010-2011). She was also holder of the E.B. Snead '25 Development Professorship II from 2007-2012. Dr. Hueste holds a Bachelor of Science degree from North Dakota State University, a Master of Science degree from the University of Kansas, and a Ph.D. degree from the University of Michigan; all in Civil Engineering.

Upcoming Chapter Events

Next chapter meetings:

September 24, 2013

Topics in Post-Tensioning

Miroslav Vejvoda, PE

Post-Tensioning Institute

Future chapter meeting dates:

November 19

Plan Ahead for 2014:

(Subject to change)

January 28

February 25

March 25

April 22

May 27

June 24

Sept 23

November 18

Welcome New SEAoT Dallas Members!

Ms. Rasha Cleland - University of Texas at Arlington

Mr. Robby Vogel, P.E. - SHW Group

Mr. Charles Kus, P.E. - TRC Worldwide Engineering

Mr. Achille Kodom, P.E. - EAKOM Engineering & Consulting

The Dallas Chapter of SEAoT would like to thank all of the advertisers that have contributed to the newsletter. We appreciate your support. You may support SEAoT by advertising in the newsletter. Space is available to structural engineering firms, vendors and suppliers starting at \$125.00 for one year of advertisement (8 newsletters). If interested, please contact David Parkin at (214) 221-2220 or via e-mail at dparkin@ppoinc.net.

May SEAoT Dallas Meeting Recap

Mr. C. W. Clark, P.E., Director of Compliance & Enforcement with the Board, and Mr. Clif Bond, Supervising Investigator for the Board were the guest speakers on the May 21, 2013 meeting. Mr. Clark and Mr. Bond provided updates on Board rule changes within the last year, general updates on initiatives the Board is working on, information on enforcement statistics, and the engineering Code of Conduct. Thank you C.W. and Clif for a most informative and entertaining presentation!

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President's Message By Tom Scott, P.E.

It's summer time! Okay, so maybe you don't quite have the excitement you did as a kid, or even in college, when you had that long summer break away from school. But still, there is a different feel than at other times of the year. Yes, it is hot. But the days are longer and it just seems like there is so much more opportunity to get the stuff done that you have been putting off all winter. And, of course, hopefully everyone will get to experience at least a little time off.

Just as in your school days, your SEAoT chapter is about to break for summer. I hope you are not as excited about this, but before we go we have one last great speaker to send you on your way. Dr. Mary Beth Hueste will be presenting on the program developed for the TxDOT Fort Worth District to preserve historic and significant bridges in Tarrant County. Going "green" is still all the rage, and there is not a more green/eco-friendly solution than saving an existing structure. And when that existing structure is a cool, old bridge, then even better.


We will resume our meetings in September with a presentation on post-tensioning, followed by the state conference in October, and then our final chapter meeting of the year in November. It is only June, but it seems like the year is winding down already. I hope everyone enjoys their summer break, but only after you join us one last time until the fall. See you at the meeting.

Tom Scott tscott@jqeng.com

ICC eCodes AVAILABLE FOR SEAoT MEMBERS!

All SEAoT members may now access IBC 2009 and IBC 2012 codes online! [Click here](#) to find out more (log in required to access codes)

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Beyond the Code

Earlier this month, I attended the Cement & Concrete Industry Day on the Hill, in Washington, DC, to talk about building to the Code and beyond. While I have known that the public doesn't know or care what engineers do most of the time, my discussions with legislators and their staff made me realize that we need to publicize what we do to make sure buildings are safe. Owners simply trust that they are getting what they want and need. There are a number of organizations involved in efforts to improve the durability and safety of buildings, but it comes down to us. We are typically charged with designing to the Code, which is a baseline to prevent injuries under a specific set of conditions. It attempts to prevent "substandard" construction, but is not intended to optimize function or safety, and it represents the "least we can do". And under most circumstances, designing to Code is more than adequate.

Through May of 2013 (before hurricane season), FEMA has spent \$8 billion for disaster relief, primarily for emergency response and federal disaster aid for temporary housing and uninsured losses. Groups like the BuildStrong Coalition and the Insurance Institute for Business and Home Safety are working to achieve a dialogue between owners, designers, building officials, and politicians, to promote safer buildings, reduce costs associated with relief, and improve the resilience of communities.

On the west coast, we are already seeing building designs for seismic forces which contemplate immediate use or use after rehabilitation, rather than designing exclusively for life safety. As this trends continue, we expect that more owners and jurisdictions will require buildings to remain useful after all expected disasters, rather than just protecting occupants through the initial, extreme conditions. - John Turner

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SEAoT

Dallas Chapter

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Notice!

We currently provide our newsletter by electronic format only! This helps us control our costs as well as saving paper and keeps unnecessary paper off your desk. If you know of anyone who is interested in receiving the Dallas Chapter newsletter and meeting announcements, and isn't on the e-mail list, send the contact information to John Turner at jturner@crsi.org. Please be sure to update us if your e-mail address changes so that you can continue to receive our newsletters and stay in touch with the Dallas Chapter.

Thank you for your assistance!