



National Council of Structural Engineers Associations EIGHTEENTH ANNUAL CONFERENCE

September 30 – October 2, 2010
Hyatt Regency on the Hudson
Jersey City, New Jersey

Plan your fall to include the NCSEA Annual Conference at the Hyatt on the Hudson, Jersey City, NJ, September 30 – October 2, 2010. While you are there, enjoy views of the Hudson River and lower Manhattan; and plan time for a visit to the One World Trade Center (formerly, Freedom Tower) construction site, via ferry or the PATH train, located only a few steps from the hotel.



Courtesy of Sarah McGee Photography.

Lectures you can expect to hear include the following:

The Future of New York City Building, presented by Robert LiMandri, Commissioner, NYC DOB

Renovation of the Guggenheim Museum, presented by Nancy Hudson, Robert Silman Associates

Lake Champlain Bridge Projects, presented by Ted Zoli, HNTB

New York Underground: Grand Central Station LIRR Terminal, presented by Colin Barratt, MTA

Protecting People and Neighborhood Property During Excavations, presented by Tim Lynch, NYC DOB

High Strength Concrete Design, including One World Trade Center, presented by Caz Bognacki, Port Authority of NY and NJ

AISC Seismic Design Provisions: Past, Present and Future, presented by AISC's TR Higgins Lecturer and NCSEA Incoming President, Jim Malley, Degenkolb Engineers

Changes to the 2010 MSJC Code, presented by Ed Huston, Smith & Huston Consulting Engineers

Social events include an exhibitor reception on Thursday night, Friday night dinner at Carmine's legendary Italian restaurant in the Theatre District, and the Awards Reception and Banquet on Saturday night (formal attire requested).

Register at www.ncsea.com.

Exhibitors:

American Institute of Steel Construction
Azz Galvanizing Services
CMC Steel Products
Construction Tie Products
ConXtech, Inc.
CSC Inc
DESIGN DATA
Fabreeka International Inc.
FYFE COMPANY, LLC
Grace Construction Products
Hardy Frames, Inc.
Hilti

ITW Red Head
LINDAPTER NORTH AMERICA, INC.
Singer Nelson Chalmers
Powers Fasteners
RedBuilt, LLC
RISA TECHNOLOGIES, LLC
SidePlate Systems, Inc.
Simpson Strong-Tie
TurnaSure LLC
Valmont Industries
Vector Corrosion Technologies

Visit the NCSEA website (www.ncsea.com) to view the limited number of exhibitor booth spaces still available, or contact Emile Troup steelstruk@aol.com.

Sponsors:

ACEC – New York
Bentley Systems, Incorporated
Concrete Industry Board, Inc.
Girder-Slab Technologies, LLC
ITW Red Head

Nicholson & Galloway
Powers Fasteners
Simpson Strong-Tie
Skyline Steel

To become a sponsor of this event, please contact Erica Fischer erica@murray-engineering.com or Melissa Melissa@ncsea.com.

2010 NCSEA EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS

Call for Entries



The University of Illinois Memorial Stadium, photo courtesy of Brad Feinknopf.

NCSEA's Annual Excellence in Structural Engineering Awards program highlights some of the best examples of structural engineering ingenuity throughout the world. Structural engineers and structural engineering firms are encouraged to enter this year's program. Projects will be judged on innovative design, engineering achievement and creativity.

Entries are due on **Friday, July 9, 2010**. Awards will be presented on October 2, 2010, at the NCSEA Annual Meeting at the Hyatt Regency on the Hudson, Jersey City, New Jersey. Winning projects will be featured in future issues of STRUCTURE Magazine. For award program rules, project eligibility and entry forms, see the Call for Entries on the NCSEA website at www.ncsea.com.

Next NCSEA Webinar July 15

Design of Coastal Buildings – Presented by William Coulbourne



This seminar is intended to help engineers, architects and building officials who design or oversee construction in or near coastal areas to not only better understand the magnitude of flood and wind forces but also to help them apply sound judgment about the possible siting of buildings, and about the possible consequences to the built environment when the design hurricane event occurs. The webinar emphasizes the importance of understanding the flood and wind effects and how to minimize their impacts, as follows:

- 1) Flood forces caused by coastal events such as hurricanes and tsunamis
- 2) Wind forces caused by hurricanes
- 3) Discussion of possible mitigation measures

Mr. Coulbourne has a BS in Civil Engineering from Virginia Tech and a Masters in Structural Engineering from the University of Virginia. He is a national expert in wind and flood mitigation and has been involved in FEMA Mitigation Assessment Teams

for over 15 years. He has been involved in every major hurricane and flood disaster since 1995. Mr. Coulbourne has investigated failures and mitigation design techniques for thousands of buildings including residential structures, schools used as shelters, hospitals, and other critical facilities. He holds Certifications in Structural Engineering and Building Inspection Engineering. Mr. Coulbourne has written articles for journals and given presentations for homebuilders, engineers, architects and homeowners on high wind and flood design and coastal construction issues. He was one of the primary authors for FEMA's Coastal Construction Manual and for FEMA 320, Taking Shelter From the Storm – a tornado safe room design guidance manual for homeowners and homebuilders.

Register at www.ncsea.com.

Upcoming
NCSEA
Webinars

- August 5, 2010:** Wind Load Design for Storm Shelters and Critical Facilities, *Marc Levitan*
- August 19, 2010:** Wind Load Design for Industrial Structures and Appurtenances, *Marc Levitan*
- September 14, 2010:** Wood and Cold-Formed Steel Trusses, *Ed Huston*
- October 19, 2010:** ATC-58, *Ron Hamburger*
- October 28, 2010:** Design Considerations for Ponding Loads on Roofs, *Tom Wallace*

NCSEA has published a new design guide...

Purchase it from ICC's website today. Attend the course and receive the book onsite!

Guide to the Design of Out-of-Plane Wall Anchorage: Based on the 2006/2009 IBC and ASCE/SEI 7-05

To date, ten cities representing eight member organizations have participated in the new NCSEA short course titled *Guide to the Design of Out-of-Plane Wall Anchorage: Based on the 2006/2009 IBC and ASCE/SEI 7-05*. The course and book are a direct response to over 1,500 comments received directly from our members regarding some of the most confusing issues in the code. The new course uses Dr. Mays' concept oriented approach to instruction to carefully illustrate appropriate applications of some of the code's most confusing requirements. If your member organization would like to schedule this 8 hour course, please contact Dr. Mays directly at timothymays@bellsouth.net.

Course Description: The 2006/2009 International Building Code (IBC) and ASCE/SEI 7-05 contain detailed design requirements for wall anchorage systems to resist out-of-plane wind and seismic load effects. However, the provisions are scattered throughout the code and/or referenced standards, are material specific, and are often challenging for practicing structural engineers to apply for many practical building configurations. Using concept oriented instruction, Dr. Mays breaks down the analysis and detailing requirements separately for seismic and wind anchorage. Structural walls, nonstructural walls, parapets, and cladding are each considered separately as related to governing provisions. Solutions for high wind areas, Seismic Design Category (SDC) B, and SDC D are provided for each problem presented in the course. Example anchorage problems for connecting concrete, masonry, timber, and precast walls/panels to diaphragms composed of various materials are presented. Special

provisions for subdiaphragms, continuous ties/struts, pilasters, straps, eccentric connections, and wood ledgers are included. A detailing example for economical tilt up wall anchorage using just metal decking is presented. Comprehensive examples are provided for subdiaphragms composed of wood structural panel sheathing on wood framing and metal decking on steel joists.

Course Instructor:

Timothy Wayne Mays, Ph.D., P.E. is President of SE/ES and an Associate Professor of Civil Engineering at The Citadel in Charleston, SC. He currently serves as Chairman of the Structural Technical Group for ASCE SC Section and NCSEA Publications Committee Chairman. He has received two national teaching awards (ASCE and NSPE) and both national (NSF) and regional (ASEE) awards for outstanding research.

COURSES SCHEDULED FOR JULY AND AUGUST 2010:

- July 14, 2010 – New York, NY
- July 19, 2010 – Nashville, TN
- July 21, 2010 – Tulsa, OK
- July 23, 2010 – Oklahoma City, OK
- July 28, 2010 – Tucson, AZ
- July 30, 2010 – Phoenix, AZ
- August 2, 2010 – Albuquerque, NM
- August 5, 2010 – Little Rock, AR
- August 9, 2010 – Atlanta, GA

National Council of Structural Engineers Associations Course Approval No. 100405D

