



NCSEA Webinar Series on the NEHRP Seismic Design Technical Briefs

August 4, 11, 25, and September 8

NEHRP (National Earthquake Hazards Reduction Program) Technical Briefs are published by NIST, the National Institute of Standards and Technology, as aids to the efficient transfer of NEHRP and other research into practice. Topics of the briefs are selected to address design issues and structural systems that are commonly encountered by practicing structural engineers. The briefs, intended to help reduce the nation's losses from earthquakes, were produced under contract to NIST by the NEHRP Consultants Joint Venture, a joint venture of the Applied Technology Council (ATC) and the Consortium of Universities for Research in Earthquake Engineering (CUREE).

August 4, 2011: Seismic Design on Cast-in-Place Concrete Diaphragms, Chords, and Collectors

August 11, 2011: Seismic Design of Reinforced Concrete Special Moment Frames



Jack Moehle is T.Y. and Margaret Lin Professor of Engineering in the Civil and Environmental Engineering Department at the University of California, Berkeley. From 1991 to 2001, he was Director of the Earthquake Engineering Research Center at Berkeley, and in 1996 he became founding

Director of the multi-university Pacific Earthquake Engineering Research Center, where he served until 2008. His teaching and research includes topics in structural engineering, earthquake engineering, and reinforced concrete. He has played a lead role in the development of building codes and professional engineering guidelines for the design of new construction and the assessment and rehabilitation of seismically vulnerable existing construction.

August 24, 2011: Nonlinear Structural Analysis for Seismic Design



Enabled by advancements in computing technologies and available test data, nonlinear analyses provide the means for calculating structural response beyond the elastic range, including strength and stiffness deterioration associated with inelastic material behavior and large displacements. This seminar is intended to provide a summary of the important considerations to be addressed, considering the current capabilities of nonlinear analysis technologies and how they are being applied in practice. The scope includes both nonlinear static (pushover) and dynamic (response history) analyses, but with the emphasis towards the latter.

Gregory G. Deierlein, Ph.D., P.E., is a faculty member at Stanford University where he specializes in the design and behavior of steel and concrete structures, nonlinear structural analysis, and performance-based design of structures for earthquakes and other extreme loads. He has design experience with the firm of Leslie E. Robertson and Associates of New York, where he was engaged in the structural design of several landmark buildings. He maintains professional activities as a structural engineering consultant, design peer reviewer, and participant in national technical organizations, including the American Institute of Steel Construction, the Applied Technology Council, and the American Society of Civil Engineers.

September 8, 2011: Seismic Design of Steel Special Moment Frames: A Guide for Practicing Engineers



This guide was written to assist practicing engineers with their understanding and application of ASCE 7, AISC 341 and AISC 358 as they relate to the design of steel Special Moment Frames (SMF). It emphasizes code requirements and accepted approaches to their implementation, with background information and sketches to illustrate the requirements. Analysis, behavior, proportioning and detailing requirements, and constructability issues are addressed. The webinar will summarize the document, and highlight items of particular usefulness to SMF designers.

James O. Malley, S.E., is a Senior Principal with Degenkolb Engineers. He received both his Bachelors and Masters Degrees from the University of California at Berkeley. Mr. Malley has over 27 years of experience in the seismic design, evaluation and rehabilitation of building structures. He was responsible for the analytical and testing investigations performed as part of the SAC Steel Project in response to the Northridge earthquake damage. Mr. Malley is a member of the AISC Specifications Committee and the Chair of the AISC Seismic Subcommittee. He was named the 2010 T.R. Higgins Lectureship Award winner for his work on the AISC Seismic Provisions. He was President of SEAOC in 2003-2004 and is currently the President of the NCSEA Board of Directors.



Each course will award 1.5 hours of continuing education. **Note:** The times will be 12:00 pm Pacific, 1:00 pm Mountain, 2:00 pm Central, and 3:00 pm Eastern. Approved in All 50 States. **Cost:** \$250 per internet connection per session or \$750 for all four sessions on the NEHRP Seismic Design Technical Briefs. Each webinar awards 1.5 hours of continuing education. Several people may attend for one connection fee. There will be a \$5 fee for each continuing education certificate requested. Approved in all 50 states.

NCSEA Nineteenth Annual Conference

October 20-22, 2011
Oklahoma City, Oklahoma

Oklahoma City is proud to host this year's NCSEA Annual Conference. Held at the Renaissance Convention Center, the preliminary program follows:

THURSDAY – October 20

Concurrent Sessions

- 9:00 – 5:00 NCSEA Committee Meetings
- 1:00 – 2:45 Ethics in Structural Engineering
Barry Arnold, Vice President ARW Engineers, Salt Lake City, UT
- 3:15 – 5:00 Speaking to the Media
Gerry Bonds, Emmy winning journalist and TV personality, Oklahoma City, OK
- 1:00 – 5:00 Six software presentations

FRIDAY – October 21

- 7:00 – 7:30 Registration & breakfast
- 7:30 – 8:00 Breakfast sponsor speaker
- 8:15 – 8:30 Roll call & introduction of candidates for NCSEA Board of Directors
- 8:30 – 9:15 Keynote Address: International Design
James R Cagley, 1st President of NCSEA, Cagley & Associates, Rockville, MD
- 9:15 – 10:00 Specialty Engineering
Bill Bast, 17th President of NCSEA, Thornton Tomasetti, Chicago, IL
- 10:00 – 10:45 Break & exhibitor visits
- 10:45 – 11:45 Specialty Engineering Panel Discussion
Craig Barnes, 3rd President of NCSEA, CBI Consulting, Boston, MA
Emile Troupe, 6th President of NCSEA, Structural Steel Fabricators of New England
Mike Tylk, 9th President of NCSEA, TGRWA, Chicago, IL
- 11:45 – 1:00 Lunch and sponsored speaker (30- 45 minutes) & exhibitor visits

Concurrent Sessions

- 1:00 – 1:45 Renovation Design
Speaker: Craig Barnes, 3rd President of NCSEA, CBI Consulting
- 1:45 – 2:30 Renovation Panel Discussion
John Joyce, 11th President of NCSEA, Engineering Solutions, Oklahoma City, OK
Bob Paullus, 16th President of NCSEA, Paullus Structural Consultants, Memphis, TN
Bill Bast, 17th President of NCSEA, Thornton Tomasetti, Chicago, IL

- 2:30 – 3:15 Break & exhibitor visits and raffle
- 3:15 – 4:00 Business Issues
Speaker: Marc Barter, 7th President of NCSEA, Barter & Associates, Mobile, AL
- 4:00 – 5:00 Business Issues Panel Discussion
James R Cagley, 1st President of NCSEA, Cagley & Associates, Rockville, MD
Sanjeev Shah, 10th President of NCSEA, Lea+Elliot, Inc., Miami, FL
- 1:00 – 1:45 Building Code Process
Speaker: Ron Hamburger, 12th President of NCSEA, Simpson Gumpertz & Heger, San Francisco, CA
- 1:45 – 2:30 Building Code Panel Discussion
Gene Corley, 4th President of NCSEA, CTLGroup, Skokie, IL
Greg Schindler, 8th President of NCSEA, KPFF Consulting Engineers, Seattle, WA
Ed Huston, 15th President of NCSEA, Smith & Huston, Seattle, WA
- 3:15 – 4:00 Forensic Design
Speaker: Gene Corley, 4th President of NCSEA, CTLGroup, Skokie, IL
- 4:00 – 5:00 Forensic Design Panel Discussion
Tim Slider, 5th President of NCSEA, Slider & Associates, Richardson, TX
Ron Hamburger, 12th President of NCSEA, Simpson Gumpertz & Heger, San Francisco, CA
Ed Huston, 15th President of NCSEA, Smith & Huston, Seattle, WA

6.75 Continuing Education Hours

Friday night: Dinner at the Oklahoma City Museum of Art.

Saturday, October 22

NCSEA committee and business reports, lunch and speaker, followed by discussion and workshops on NCSEA's proposed position statement on separate licensing.

Saturday night: NCSEA Reception and Awards Banquet, honoring the finalists of the 2011 NCSEA Excellence in Structural Engineering Awards, as well as those individuals receiving the NCSEA Cornforth, Delahay, and Service Awards.

Exhibitors

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| American Institute of Steel Construction | Nucor-Vulcraft Group |
| AZZ Galvanizing Services | Powers Fasteners |
| Bekaert Corporation | RISA Technologies, LLC |
| Bentley Systems | SidePlate Systems, Inc. |
| CMC Steel Products | Simpson Strong-Tie |
| CSC Inc. | Star Seismic |
| DESIGN DATA. | Steel Cast Connections, LLC |
| Fabreeka International, Inc. | Structural Desktop, Inc. |
| FYFE Co. LLC | TurnaSure LLS |
| Hardy Frames, Inc. | Unbonded Brace |
| Hilti | Valmont Industries |
| ITW Red Head | Vector Corrosion Technologies |
| LNA Solutions | W.R. Grace & Co. |

Sponsors

Wallace Engineering Structural Consultants, Inc – PLATINUM
Alliance Steel, Inc. – SILVER

