NCSEA Committees Taking Action

Over the next few months, NCSEA will provide a closer look at what the association's committees are working on, how they are benefiting the NCSEA membership and the structural engineering profession, and how other NCSEA members may be able to help. The first two committees to report are the Advocacy Committee and the Structural Engineers Emergency Response (SEER) Committee. The Continuing Education Committee is covered as well, with its summer offerings on the opposite page.

Advocacy Committee

On April 5, 2012, the Chair and Subcommittee Chairs of the NCSEA Advocacy Committee held a web-based meeting with NCSEA Board members and staff. The following subcommittee initiatives were announced and affirmed:

- Clients & Prospects- Rick Boggs: A brochure explaining structural engineering to Clients and Prospects has been prepared and will be available in PDF form, along with additional brochures targeting other audiences, at the NCSEA Conference in St. Louis.
- General Public & Media – Carrie Johnson: A guideline for communication to/with each NCSEA Member Organization is being prepared, as is a Media Training Guide.
- Code Officials & Government Agencies – Kevin Westervelt: Drafts of at least two white papers will be issued by the time of the NCSEA Conference.
- Students & Educators – John Joyce: Three people are working on the next structural engineering poster and three people are working on a structural engineering video. Both the Poster Subcommittee and the Video Subcommittee plan to have products ready for review by July, with final copies expected to be ready on time for the Conference.
- Website Development – Sam Rubenzer: Sam is reviewing websites for ideas for NCSEA's website and will define the scope for a new NCSEA website by July. He plans to seek proposals in August, but he would welcome volunteers now, to work through this with him. Contact Sam at: **sam@forseconsulting.com**.

The next NCSEA Advocacy Committee meeting will be a web-based meeting at 11 a.m. Central Time on Monday, June 25. All Member Organization Advocacy Committee Chairs are invited to sit in. Please send your contact information to **joyce@ncsea.com** for log-in information.

SEER Committee

In 2012 the NCSEA Engineers Emergency Response (SEER) Committee:

1) Announced the development of a web-based database to make it easier to contact structural engineers for assessments following a disaster. Volunteers can go to the NCSEA website to add their names and contact information to the list or, if you are reading the digital copy of STRUCTURE and would like to volunteer, you can click on this link to add your name and pertinent information to the system. You will then receive timely updates regarding training, SEER program developments, and deployment opportunities, following natural and man-made disasters.
2) Published the second edition of the SEER Plan Manual and made it available, at no charge, to NCSEA Members. For your copy, go to the SEER Committee page of the NCSEA website.
3) Together with the NCSEA Continuing Education Committee, offered the first of what NCSEA expects to be bi-annual webinar offerings of the California Emergency Management Agency (CalEMA) Safety Assessment Program. This program ran for the first time on May 18; and it will be offered again in the Fall. The program consists of three webinar segments available over one day's time and is one of the only two post-disaster assessment programs that is compliant with the requirements of the forthcoming Federal Resource Typing Standards for engineer emergency responders. The course was taught by Jim C. Barnes, P.E., an Associate Civil Engineer in the Recovery Division of Cal EMA. Mr. Barnes is currently the lead statewide coordinator of the Safety Assessment Program and has instructed well over 100 Safety Assessment-related classes. He also assists with engineering-related issues pertaining to rebuilding after disasters and with the statewide Preliminary Damage Assessment efforts. (*Note: Someone on site must act as a proctor for the course and send CalEMA pictures of attendees, along with completed registration forms. Certificates will then be issued by CalEMA.*) If you missed the May 18 course, check back with NCSEA (**www.ncsea.com**) in the Fall. (Charge for the May course was $500 per site.)

Next month: The Code Advisory Committee

Call for Entries

NCSEA 15th Annual Excellence in Structural Engineering Awards

The NCSEA Excellence in Structural Engineering Awards celebrates the greatest structural engineering achievements in the United States and throughout the world.

Entries are welcome, and awards will be presented, in the following award categories:

- New Buildings under $10 Million
- New Buildings $10 Million to $30 Million
- New Buildings $30 Million to $100 Million
- New Buildings over $100 Million
- International Structures over $100 Million
- New Bridge and Transportation Structures
- Forensic/Renovation/Retrofit/Rehabilitation Structures
- Other Structures

Entries are due July 13. Awards will be presented at the Hilton Frontenac in St. Louis, MO on October 5, on Friday night of the NCSEA Annual conference; and winning projects will be featured in future issues of STRUCTURE magazine. For awards program rules and eligibility, as well as entry forms, see the Call for Entries on the NCSEA website: **www.ncsea.com**.

Save the date – NCSEA Annual Conference in St. Louis – October 4-6.

Summer Courses – Programming by the NCSEA Continuing Education Committee

Register at **www.ncsea.com**.

NCSEA Webinars

June 14: That's in the Code?!? Ten Overlooked Provisions in AWS D1.1

For most steel construction projects in the U.S., work will be done in accordance with the AISC Steel Specification. This standard then invokes AWS D1.1 to address most welding-related requirements. When the Structural Engineer specifies conformance with AISC or AWS D1.1, they may think their task complete in terms of welding issues. This presentation will address ten often overlooked requirements from D1.1 that should be included in contract documents or on drawings. Topics will include specification of loading type, nondestructive testing, Charpy toughness requirements, and alternate acceptance criteria. Details of groove and fillet welds and common errors and omissions on drawings will be presented, along with preferred practice. Construction details such as weld backing and weld tabs will be discussed. Presented in a checklist-type format, this presentation will explain why these issues are important and provide practical suggestions as to how potential problems can be overcome in construction documents.

Duane K. Miller, Sc.D., P.E., is Chair of the AWS D1 Structural Welding Code Committee and a member of the Technical Activities Committee. He formerly chaired the Seismic Welding subcommittee and the AASHTO-AWS Bridge Welding subcommittee; and he has authored and co-authored chapters of many texts, including the AISC Design Guide 21 on Welding and the Mark's Handbook of Engineering, 11th Edition.

June 21: ASCE 7-10 Significant Wind Load Provision Changes

This webinar will cover the most important changes to the wind load provisions for ASCE 7-10 including new wind speed maps, organizational changes in the standard, a new simplified method for buildings less than 160 feet tall, and a discussion of changes to the occupancy classification for buildings which is key to the use of the new wind speed maps. The purpose of this webinar is to make training available for practicing structural engineers in a timely manner so that when the ASCE 7-10 standard is adopted by local building code organizations, the user will be equipped to put the changes into practice.

William Coulbourne, P.E., SECB, is a national expert in wind and flood mitigation and has been involved in FEMA Mitigation Assessment Teams for over 15 years. He has investigated failures and mitigation design techniques for thousands of buildings and has co-authored books, written articles for journals and given presentations and provided training for homebuilders, engineers, architects and homeowners on high wind and flood design and coastal construction issues. In addition, 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.

July 24, 2012: Design Provisions for Lumber & Glulam Beams based on the 2012 NDS

David Pollock

July 31, 2012: Design of Bolted Connections using the 2012 NDS

David Pollock

August 7, 2012: Aluminum Structural Member Design

Randy Kissell

August 21 2012: Aluminum Mechanical & Welded Connections Design

Randy Kissell

Cost: $225 for NCSEA members, $250 for SEI/CASE members, $275 for non-members, FlexPlan option still available. Several people may attend for one connection fee. 1.5 hours of continuing education. Approved for CE credit in all 50 States through the NCSEA Diamond Review Program. Applicable for SECB recertification. No fee for continuing education certificates. **Time:** 10:00 AM Pacific, 11:00 AM Mountain, 12:00 PM Central, 1:00 PM Eastern. Miss a webinar that you wanted to see? Purchase the recording at **www.ncsea.com**.

NCSEA/Kaplan Structural Engineering Exam Live Online Review Course

Vertical – July 21-22
Lateral – August 18-19

Prepare for exam day success with this course designed by NCSEA, Kaplan Engineering Education, and leading structural engineers from across the industry.

This targeted review includes:

- Over 28 hours of instruction with an emphasis on building design
- New sessions on exam strategy and bridge design
- Key topics of structural code
- Efficient analytical methods
- New material in the 16-hour Structural exam
- Typical exam questions
- Problem solving techniques
- Exam day skills
- 24/7 playback – study anytime

For more information or to register, see page xx of this magazine or visit **www.ncsea.com**.