



2011 NCSEA EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS

Call for Entries

NCSEA announces the thirteenth annual Excellence in Structural Engineering Awards Program. This program annually 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.

Up to three awards will be presented in eight categories: New Buildings Under \$10M, New Buildings \$10M to \$30M, New Buildings \$30M to \$100M, New Buildings Over \$100M, International Structures, New Bridges/ Transportation Structures, Renovation/Retrofit Structures and Other Structures. Eligible projects must be substantially complete between 01.01.08 and 12.31.10.

Entries are due on Friday, July 22, 2011. Awards will be presented in October at the NCSEA Annual Meeting in Oklahoma City, Oklahoma. 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 web site at www.ncsea.com.

**National Council of
Structural Engineers
Associations**



May
17

2010 T. R. Higgins Award Lecture

The AISC Seismic Design Provisions: Past, Present and Future



Since their initial publication in 1992, the AISC Seismic Provisions for Structural Steel Buildings (AISC 341) have undergone continuous updating efforts, brought on by numerous factors such as earthquake damage, new research results, and the development of new structural systems. Now firmly rooted in U.S. design specifications and building codes, the 2010 edition of AISC 341 continues this updating process through a series of technical changes and a major format revision. This lecture will summarize the background for the provisions and the changes to AISC 341-10 and will postulate the future for seismic design of structural steel systems.

James O. Malley, S.E., is a Senior Principal with Degenkolb Engineers. He received both his bachelor's and master's degrees from the University of California at Berkeley. Mr. Malley has

over 28 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.

In 2000, AISC presented Mr. Malley with its Special Achievement Award. 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. Mr. Malley is also President of NCSEA, has served as a member of the SEAONC and SEAOC Board of Directors, and was President of SEAONC in 2000-2001 and SEAOC in 2003-2004. He was named a SEAOC Fellow in 2007.



The cost is \$250 per internet connection. Several people may attend for one connection fee.

Register at www.ncsea.com. Approved in All 50 States.

This course will award 1.5 hours of continuing education. The times will be 10:00 am Pacific, 11:00 am Mountain, 12:00 pm Central, and 1:00 pm Eastern.

NCSEA Nineteenth Annual Conference

**"Leadership in
Structural Engineering!"**

Stepping Engineering Up to the Next Level

October 20-22, 2011

Renaissance Oklahoma City Convention Center

For more information and to register,
visit www.ncsea.com.

The Oklahoma Structural Engineers Association (OSEA) is excited to host this year's NCSEA Annual Conference. Events and opportunities include:

- Presentations by speakers from across the country.
- Experiencing national "Leadership in Structural Engineering" and learning how to step up your practice while earning hours of Diamond-Reviewed continuing education.
- Exciting networking opportunities with exhibitors and other colleagues on Friday evening at the Oklahoma City Museum of Art.
- Attending the banquet honoring nominees for the 2011 NCSEA Excellence in Structural Engineering Awards and individual awards for contributions to the profession, including the James Delahay, Robert Cornforth, and NCSEA Service Awards.

News from NCSEA Affiliate Member CSC

CSC Helps Structural Engineering Students at Georgia Tech

Chicago, IL – March 30, 2011 – With a third ranked graduate civil engineering program, Georgia Tech understands the importance of keeping up with leading edge technology. By implementing CSC's software, Fastrak, for use in steel design courses students are not only learning about technology but also current steel design codes.

Don White, Professor in the School of Civil and Environmental Engineering at Georgia Tech, and member of the AISC Specification Committee, had this to say about his choice, "I was impressed with the practical and technically sound implementation of the direct analysis method offered by Fastrak. Many other software programs fall short in this arena. In addition, it is essential for the software to provide an efficient work flow in creating the structural models and a clear synthesis of key structural responses. This allows the engineer to understand and assess the correctness of the calculations. Fastrak does this."

CSC's Fastrak is a software program focusing on the analysis, design and documentation of structural steel buildings. Fastrak implements the direct analysis method fully, using a rigorous second-order analysis that accounts for both P- Δ and P- δ effects. CSC chose this method because it gives the user access to the most powerful analysis and design solutions. It allows for the widest range of building structures with accurate and reliable results.

After using Fastrak in his courses for two months now, Dr. White has found the design results to be accurate and the modeling to be user friendly allowing for a streamlined process. The wind load wizard added to the streamlined process with its interactive graphical interface. "By avoiding issues I previously had with other software programs I am able to spend more time educating my students. That is what counts," said Dr. White. To learn more about CSC's structural solutions, visit www.cscworld.com/us/.

