

Steel News and Events

Focus on Wind and Low-Seismic Design

At the halfway point in a national touring schedule, AISC's latest lecture series has generated strong positive feedback, according to Steve Ashton, Senior Engineer-Continuing Education at AISC.

The lecture series, "Streamlining Your Steel Design Process: Lateral Framing Systems East of the Rockies," is aimed at engineers designing framing systems in wind and low-seismic applications.

The initial series of feedback surveys, which included respondents in Las Vegas, Nashville, Memphis and Birmingham reported that nearly nine out of 10 attendees agreed that the course was well worth the registration fee, while more than 90% of the attendees noted that the course was beneficial. The data showed that more than seven out of 10 attendees had more than a decade of professional experience and nearly 80% of the attendees were structural engineers.

The course focuses on the 2000 International Building Code, which incorporates ASCE 7, the 1997 NEHRP Provisions and the 1997 AISC *Seismic Provisions*. These documents form a consistent design basis for the building codes that are being implemented nationally.

"In using current building codes, you will need to become much more familiar with seismic design," explained Ashton. "In many situations, special seismic detailing is required or desirable, even when the design is controlled by wind effects."

The five-hour course provides information on two distinct groups of framing systems: normal ductility and high ductility. Framing systems of normal ductility are designed to meet the requirements of the AISC *Specification for Structural Steel Buildings*, while framing systems of high ductility are designed to meet the requirements of both the AISC *Specification for Structural Steel*

Buildings and the AISC *Seismic Provisions for Structural Steel Buildings*.

The seminar is designed to provide a wide-range of useful information. For normal ductility designs, attendees will learn:

- A streamlined design sequence for moment-frame systems and braced-frame systems;
- What seismic and code information applies to the various lateral-load resisting systems;
- Typical connection details that are used in the various lateral-load resisting systems;
- Useful and cost-effective moment connection details;
- Useful and cost-effective bracing configurations and bracing connection details; and
- How to identify special considerations for unusual structures.

Those interested in high ductility will learn:

- Advantages and implications of selecting higher levels of ductility for your designs;
- How to apply the AISC *Seismic Provisions*, including testing requirements for moment connections;
- Connection details that have already been qualified by testing;
- Differences between ordinary (OMF), intermediate (IMF) and special (SMF) moment frames; and
- Differences between special (SCBF) and ordinary (OCBF) concentrically braced frames.

Registration for the course, which offers 0.5 CEUs (5 PDH), is \$200 (\$150 for AISC members) with discounts for multiple attendees from one firm.

For more information, see AISC's web site at www.aisc.org or fax 312/670-5403.

Schedule-at-a-Glance

Sept. 6	.....Chicago, IL
Sept. 7	.....Grand Rapids, MI
Sept. 13	.....St. Louis, MO
Sept. 14	.....Kansas City, MO
Sept. 27	.....Pittsburgh, PA
Sept. 28	.....Columbus, OH
Oct. 4	.....Rochester, NY
Oct. 5	.....Albany, NY
Oct. 18	.....Meriden, CT
Oct. 19	.....Boston, MA
Oct. 24	.....Washington, DC
Oct. 25	.....Philadelphia, PA
Nov. 1	.....Edison, NJ
Nov. 2	.....New York, NY
Nov. 15	.....Houston, TX
Nov. 16	.....Dallas, TX