

• PERFORATED STEEL PLATE SHEAR WALLS IN ACTION

N45 Th 8:00 a.m. – 9:30 a.m. 1.5 PDHs

Speakers: Michel Bruneau, University at Buffalo; Eric Lachapelle, LAINCO Inc.; Robert Tremblay, Ecole Polytechnique Montréal

Attendees at this session will hear an overview of the perforated Steel Plate Shear Wall (SPSW) concept as well as the results of bolted plate tests and shake table tests. In addition, case studies of perforated SPSW systems will be presented with an emphasis on cost benefits and lessons learned in these early projects.

Engineers, Fabricators

• CHECKERBOARD FLOOR FRAMING: DESIGN THROUGH CONSTRUCTION

N46 Th 3:00 p.m. – 4:00 p.m. 1.0 PDHs

Speakers: Jim Myers, SSE Inc.–Structural Engineers, Inc.; Tom Murray, Virginia Tech
Moderator: Jie Zuo, AISC

Checkerboard floor framing, where beam spans alternate in adjacent bays, results in shallower, lighter girders, improved vibration performance, and allows for the use of double-angle connections between the infill beams and the girders without the need for special consideration for erection of the adjacent beams. The presentation will include the description of several medical facilities that have been designed using checkerboard framing as well as a discussion of erection considerations. Field vibration testing and recommendations for modifications of existing vibration procedures to accurately predict vibration response of checkerboard framing will also be presented.

Engineers, Fabricators

• MAKING QUALITY A FUNCTIONING PART OF YOUR STRATEGIC PLANS: WHAT COST OF QUALITY DOES

N47 Th 8:00 a.m. – 9:30 a.m. 1.5 PDHs

Speaker: Doug Wood, Wood Consulting

The cost of quality discipline is 50 years old, yet many do not know why it can help them excel. Applied partially, many see limited benefits, and find it a burden. Isn't this true about every practice? If you are tired of quality getting shoved aside every time there is a "crunch," look at what this can do to keep everyone's eyes on the goals of excellence and customer loyalty.

Engineers, Fabricators

• BLAST DESIGN

N48 Th 8:00 a.m. – 9:30 a.m. 1.5 PDHs (713A)

Speakers: Ramon Gilsanz, Gilsanz Murray Steficek LLP; Darrell Barker, ABS Consulting; J. Mikhael Erekson, ARA

While blast design isn't front-page news anymore, it's still an important requirement in many designs. This session will introduce design professionals to a valuable new resource on blast resistant structures in AISC Design Guide No. 26, *Design of Blast Resistant Structures*.

Engineers, Fabricators

• HSS CONNECTIONS—DESIGNING AND FABRICATING THE CORRECT WAY

N49a W 4:30 p.m. – 6:00 p.m. 1.5 PDHs

N49b Th 8:00 a.m. – 9:30 a.m. 1.5 PDHs

Speakers: Bradlee Fletcher, Atlas Tube; Larry Kloiber, LeJeune Steel

Moderator: Dave Eckmann, Magnusson Klemencic Associates

Everyone who designs or fabricates structures using HSS needs to attend this informative session on HSS-to-HSS connections. The session will include discussion on bolted and welded connections, including such considerations as fit-up, fabrication, erection bolts, and material handling. The session will also provide valuable information on connections with Y and T trusses as well as HSS moment connections.

Engineers, Fabricators, Detailers

• USE AND DESIGN OF SLIP-CRITICAL CONNECTIONS

N50a Th 10:00 a.m. – 11:30 a.m. 1.5 PDHs

N50b F 8:00 a.m. – 9:30 a.m. 1.5 PDHs

Speakers: William A. Thornton, Cives Engineering Corporation; Larry Muir, The Steel Connection, LLC
Moderator: Reidar Bjorhovde, The Bjorhovde Group

Slip-critical connections are rarely required by the *Specification*, but are commonly used in conjunction with oversize holes to ease the erection of large trusses and heavy bracing connections. Significant changes to the way in which slip-critical connections are designed occurred in the 2005 and 2010 editions of the AISC *Specification*, compared with how the design of these connections was performed prior to 2005. This session will provide an overview of the changes and the research that prompted the changes. The session will also address some common questions and misconceptions related to the use of slip-critical connections.

Engineers, Fabricators, Detailers