1997 National Steel Construction Conference

With today's economic climate and the fast and furious pace of advancing technologies and resources, questions mount seemingly faster than they can be answered. AISC's National Steel Construction Conference is a once-a-year opportunity to delve into the rapidly changing and advancing world of steel design and construction and surface with practical information to help your practice today. The conference and exhibition, scheduled for May 7-9 in Chicago, includes more than 25 problem-solving technical sessions as well as a comprehensive product exhibit.

This year, sessions are offered focusing on five areas: erection; fabrication; engineering management; engineering technical; and welding. In addition, following the conference will be a separate short course on HSS Connections.

Some of the papers to be presented at NSCC '97 include:

- Bracing and Stability. This session will focus on new methods of analysis and design for stability that have become possible and practical as computers have become more powerful and more affordable. Included will be a look at simple energy methods of stability and analysis and their applicability to practical stability problems.
- Cladding on Multistory Steel Frames. This session will discuss a variety of different cladding systems and their effects on frame design.
- Moment Connections. This session will address current alternative details for SMRF connections in regions of high seismicity; implications of Northridge SMRF connection failures for wind-controlled moment connection designs; and new developments in extended end-plate moment connection design-use in seismic applications and the use of snug-tight bolts.
- Erection of Large Scale Projects. This session will focus on two large projects (International Terminal Building at Vancouver International Airport and the Rose Garden Arena in Portland, OR) to illustrate innovations in the design and construction and their effects on erection.
- Detailing for the Shop. A detailed discussion of detailing issues, including software concerns.
- Structural Welding Code Requirements. An in-depth look at changes in the 1996 ANSI/AWS D1.1 Structural Welding Code.
- What an Engineer Should Know About Welding Procedures. This presentation will discuss the capabilities and limitations of the welding processes commonly used for structural work.
- Innovations in Cutting, Burning and Welding. Emerging developments will be discussed in terms of their applicability to the fabrication of structural shapes.

For more information on NSCC '97, either check at AISC's web page at http://www.aiscweb.com or use the NSCC faxback service at 800/787-0052 x110.

Short Course on Steel Construction: HSS Connections

Following NSCC '97, a post-conference short course is scheduled for Saturday May 10, 1997.

AISC, in assocation with the Steel Tube Institute of North America and the American Iron & Steel Institute, is publishing a new manual that will be the definitive work on connecting HSS members to other HSS members as well as to wide flange sections. The book will cover both simple and moment connections.

The Short Course on HSS Connections will review and cover all aspects of HSS design and connections. The morning will include discussion on the material and the new design specifications for HSS members that the AISC Specification Committee has produced. Shear and moment connections will also be discussed before the lunch break. The afternoon will include detailed information on many complicated connections that are used every day when designing with HSS members, including base plates and truss connections. Erection will also be covered.

The short-course speakers include many of the experts in this field who have helped prepare the manual, including: Don Sherman of the University of Wisconsin—Milwaukee, who heads the AISC Specification Committee Task Group that prepared the specification; Jim Fisher of Computerized Structural Design; Larry Kloiber of LeJeune Steel Company; and Jeff Packer of the University of Toronto.

This Course is a must for anyone involved with the design, fabrication or erection of HSS members. The cost is $225 for AISC members, $275 for non-members, and includes a copy of the HSS Connections Manual.

Short Course Schedule

8:00 - 8:30 a.m.
Registration/Coffee & Rolls

8:30 - 8:45 a.m.
Welcome & Introductory Remarks

8:45 - 9:15 a.m.
Specification Highlights

9:15 - 10:00 a.m.
Materials, Welding & Bolting

10:00 - 10:15 a.m.
Refreshment Break

10:15 - 11:00 a.m.
Simple Shear Connections

11:00 - 11:45 a.m.
Moment Connections

11:45 a.m. - noon
Question/Answer Panel

Noon - 1:00 p.m.
Lunch

1:00 - 2:00 p.m.
Base Plates and Column Splices

2:00 - 3:00 p.m.
Tension and Compression Connections

3:00 - 3:15 p.m.
Break

3:15 - 4:15 p.m.
Truss Connections and Examples

4:15 - 4:45 p.m.
Constructability Issues for HSS Connections

4:45 - 5:00 p.m.
Question/Answer Panel

For more information, contact Robert Lorenz, AISC Director of Education, at 312/670-5406, or by fax at 312/670-5403. Educational credit for this course is 0.7 CEUs or 7.0 P.D.H.s (Professional Development Hours).