



This seminar brings together two internationally recognized experts in cold-formed steel (CFS) design and research to share their extensive as well as practical knowledge with attendees about the latest CFS design methodologies, codes, testing and analyses. The knowledge gained will help designer and building official attendees better understand and implement not just the requirements in the 2006 IBC, but also the upcoming requirements in the 2009 IBC, which adopts AISI D100-07, specification and the 2007 AISI framing standards. Presentation notes will be provided.

Cold-Formed Steel Design
Seminar at the Courtyard Marriott Liberty Station
in San Diego February 19th 2010



Cold-Formed Steel Design and Behavior
Roger LaBoube, Ph.D, P.E.

This portion of the seminar will explore the fundamentals of CFS design and behavior with an emphasis on the changes in the new 2007 edition of the AISI North American Specification for the Design of Cold-Formed Steel Structural Members (D100-07). Lecture topics will include member design, brace design and connection design. Design example problems will be presented based on the AISI Cold-Formed Steel Framing Design Guide (D110-07). Also, to aid with developing an understanding of CFS, the similarities between cold-formed and hot-rolled steel will be highlighted.

Roger A. LaBoube, Ph.D., P.E. is Curators Distinguished Teaching Professor of Civil Engineering and Director of the Wei-Wen Yu Center for Cold-Formed Steel Structures at Missouri University of Science and Technology (formerly University of Missouri-Rolla). Dr. LaBoube has been lecturing on CFS for over 30 years and has extensive industry and academic background related to the behavior and design of cold-formed steel structures. He has been a member of the AISI Committee on Specifications since 1980 and the Committee on Framing Standards since its formation 12 year ago.



Design and Performance of Cold-Formed Steel Lateral Framing Systems
Colin Rogers, Ph.D

A common means to construct the lateral load resisting system of CFS structures is to provide shear walls sheathed with either wood or steel structural panels, which resist and transfer lateral loads through a structure. Diagonal tension-only strap braced CFS framed walls may also be used. The strap walls act as a vertical concentrically braced system, which transfers the lateral loads from the roof and floor levels to the foundation. Provisions for the lateral design of shear walls and strap braced walls can be found in the AISI North American Standard for Cold-Formed Steel Framing – Lateral Design (S213-07). Research projects carried out at McGill University, which comprised of the testing of single-story wall assemblies as well as the dynamic analyses of representative structures, where relied on in the development of AISI S213. The objective of the presentation is to provide designers with information on the inelastic lateral load carrying performance of CFS frame strap braced walls and shear walls; and to relate the laboratory and analytical observations to the design provisions found in AISI S213.

Colin Rogers, Ph.D., is an Associate Professor in the Department of Civil Engineering and Applied Mechanics at McGill University, Montreal Canada. He has been involved in research on CFS structures for the past eighteen years, and most recently has concentrated on the seismic design of CFS walls and diaphragms. To date, he has participated in the monotonic, cyclic, and shake table testing of over 300 CFS walls constructed with wood sheathing, steel sheathing or with strap bracing, as well as 70 tests on corrugated steel roof deck diaphragms. The test information has been used to develop design methods and aid in the modeling of these CFS structures. He is a technical committee member of CSA S16 – Limit States Design of Steel Structures, CSA S136 – NAS, and he is a member of the AISI COFS - Lateral Design Subcommittee.

Complete the information below and return via fax or e-mail: 760-931-9824 - jsinclair@dietrichdesigngroup.com
Registration is also available online <http://www.cfsei.org/west.htm>

Name: _____
 Company: _____
 Address _____
 City: _____
 Phone: _____
 E-mail: _____
 Credit Card: _____
 Exp: _____ Visa ___ MC ___ AE ___

Register by February 1st and take \$25.00 off registration fees!

A free set of six 2007 AISI CFS framing standards, value of \$113.00, will be raffled to a lucky attendee who registers before February 1st.

February 19th 2010, 8:00am - 5:00pm
(Earn 8 Professional Development Hours)

Courtyard Marriott Liberty Station
 2592 Laning Road
 San Diego, CA 92106 (619) 221-1900
 Registration will begin at 7:30am and a continental breakfast and lunch will be provided.

Student - \$0 Member - \$150 Non-Member - \$200
 Membership pricing for SEAOC members

