



CFSEI
COLD-FORMED STEEL
ENGINEERS INSTITUTE



LOCATION

Rosen Plaza Hotel

9700 International Drive
Orlando, FL 32819
(407) 996-9700

TITLE
CONTINUING EDUCATION
SPEAKER

Blast and Progressive Collapse Design of Cold-Formed Steel Structures

SFA FBPE Provider # 0005013 and FBPE Course # 0004364 for **1.5 PDH**
AIA course # SFA1109 and AIA provider # G411 for **1.5 LU/HSW**



Nabil A. Rahman, Ph.D., P.E. is the Director of Engineering and R&D at Applied Science International (ASI), and its parent company, The Steel Network, Inc (TSN). He also serves as an Adjunct Associate Professor at the Civil Engineering Department of North Carolina State University. He has vast experience in the development of engineering software, as well as the design and analysis of structures against extreme loads

(progressive collapse, blast, Impact and hurricanes). Dr. Rahman has participated in several vulnerability, blast and progressive collapse assessments of commercial and military buildings, and has several publications from this work. He led the development of "SteelSmart® System" engineering software for ASI, and advised on the development of the "Extreme Loading® for Structures" software. Dr. Rahman has given numerous continuing education seminars on Progressive Collapse Design and the Design of Cold Formed Steel Framing Systems to engineering associations around the US and to engineers from around the world. He is currently serving as a member of the Committee on Specification and Committee on Framing of the American Iron and Steel Institute (AISI), the Vice-Chairman of the Cold-Formed Steel Engineers Institute (CFSEI) and a member of ASCE Committee on Cold-Formed Steel.

DATE / TIME

February 9, 2012 (Thursday)

Registration and Happy Hour (cash bar): 5:30 PM to 6:30 PM (in Regency Foyer)
Dinner served at 6:30 PM (in Salon 5)
Presentation and Discussion: 6:30 PM to 8:30 PM (in Salon 5)

COST

(food and soft drinks included)

Members & Guests: \$35.00 in advance (cannot accommodate walk-ins)

Attendees must **pre-register** with their selection of the following:

Dijon Crusted Chicken

Double Breast of Chicken with Artichoke White Cheddar Sauce and Parsley Angel Hair Pasta

Prime Rib

Slow Roasted Prime Rib au jus with Horseradish Sauce, Two Potato Gratin and Steamed Asparagus

Vegetable Lasagna

Lasagna pasta wrapped around a filling of three cheeses, carrot, squash, zucchini, mushroom, broccoli and red pepper. Served over Chef's Fresh vegetable selection

**All entrees come with a Plaza House salad, warm rolls and butter, Tiramisu cake for dessert, and coffee, hot tea and iced tea*

OVERVIEW

This presentation introduces the concepts and methods of analysis and design of cold-formed steel structures against blast and progressive collapse. The presentation focuses on the design requirements for cold-formed steel mid-rise construction and curtain wall framing in the Department of Defense projects per the Unified Facilities Criteria (UFC) 4-010-01 and 4-023-03. The under-development ASCE Standard for Blast Protection of Buildings will be also discussed. A case study with computer analysis and design calculations will be presented.

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Learning Objectives:

1. Understand main concepts of structural design to mitigate the effects of blast and progressive collapse on buildings.
2. Identify which buildings (based on height and occupancy category) would qualify for progressive collapse design per DoD requirements.
3. Identify which components of building exterior framing qualify for blast design per DoD requirements.
4. Select proper analysis methods and software tools to perform blast and progressive collapse design.

For reservations, register online with your credit card (Visa/MasterCard/American Express) at <http://www.cfsei.org/florida.htm>

Note: To receive a refund or to have payment applied to the next meeting, cancellations must be made at least (3) days prior to the event. Otherwise, payment is forfeited.

Upon registration, an e-mail confirmation and receipt will be sent to you. If you have any questions, contact Bill Babich at (800) 755-6001 (X4762)

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