This seminar covers seismic design approaches, current building code theory, seismic design principles and behavior, and more. The seminar will be based on provisions in ASCE 7-10.

Presented by Jon F. Sfura

Seismology and Earthquake Actions
Earthquake characteristics
Effects of soil conditions
Western, central, and eastern U.S. seismicity

Structural Dynamics and Response
Ground motions and structural response
Response spectra
Damping
Modal superposition analysis

Modern Philosophy of Seismic Design
Seismic design objectives
Inelastic response and ductility
Proportioning

U.S. Seismic Codes
History
Performance objectives
Hazard levels

ASCE 7 Seismic Design
Mapped spectral response
Design response spectrum
Seismic design category and design factors
Seismic force resisting systems
Estimating period
Structural irregularities
Equivalent lateral force procedure
Load combinations, overstrength, redundancy
Diaphragms
Deflection limitations

Material-Specific Seismic Force Resisting Systems
International Building Code (IBC) provisions
American Institute of Steel Construction (AISC 341) provisions
American Concrete Institute for Structural Concrete (ACI 318) provisions
American Concrete Institute for Masonry Structures (ACI 530) provisions

You’ll be able to:
Examine earthquake actions, structural dynamics and response spectra.
Learn about seismic design objectives, and study the seismic design provisions of ASCE 7-10.
Discuss seismic force resisting systems.
Explore load combinations, overstrength and redundancy.
Review material-specific design criteria for wood, steel, concrete and masonry buildings.

Study seismology, earthquake actions, structural dynamics and response spectra
Explore seismic design objectives and U.S. seismic codes
Review seismic design provisions in ASCE 7-10
Examine load combinations, overstrength and redundancy
Review design criteria for wood, steel, concrete and masonry buildings
Register
Seismic Design of Building Structures
Lombard, IL - Wednesday, May 18, 2016

How to Register
- Online: www.halfmoonseminars.org
- Phone: 715-835-5900 (Key Code: 702)
- Fax: 715-835-6066

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About the Seminar
Hyatt Place Chicago - Lombard/Oak Brook
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This seminar is open to the public and offers 7.5 HSW contact hours for architects and 7.5 PDHS to professional engineers in all states. Educators and courses are not subject to preapproval in Illinois.
- The American Institute of Architects has approved this event for 7.5 HSW Learning Units (Sponsor No. J885).
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- The International Code Council has approved this event for 7.5 contact hours (7.5 CEUs) in the area of building.
- This seminar also offers a continuing education opportunity to construction contractors. It has not been submitted to any state contractor licensing board for continuing education approval.
- Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

For more information visit: www.halfmoonseminars.org/webinars/

Meeting Highlights
- Hyatt Place Chicago - Lombard/Oak Brook
- 7:30 - 8:00 am Registration
- 8:00 am - 1:00 pm Talks
- 1:00 - 5:00 pm Lunch
- 2:00 - 3:30 pm Panel Sessions
- 3:30 - 4:30 pm Question and Answer Sessions

Additional Learning
Webinar Series
- SketchUp: In-Depth Modeling Techniques for Building Professionals
  - Wed., March 30, 12:00 - 1:30 PM EDT
  - Creating Animations and Movies in SketchUp
  - Wed., April 4, 12:00 - 1:30 PM EDT
  - Continuous Backgrounds for the SketchUp Model or Animation
  - Wed., April 6, 12:00 - 1:30 PM EDT
  - Introducing Google Earth Geolocation into the Model
  - Fri., April 8, 12:00 - 1:30 PM EDT

Shallow Foundation Design and Construction
- Thurs., April 14, 12:00 - 1:30 PM EDT
- Thurs., April 14, 2:00 - 3:00 PM EDT
- Thurs., April 21, 2:00 - 3:30 PM EDT
- Fri., April 15, 12:00 - 1:30 PM EDT
- Fri., April 15, 2:00 - 3:30 PM EDT

Residential Energy Code
- Thurs., April 21, 12:00 - 1:30 PM EDT
- Thurs., April 21, 2:00 - 3:30 PM EDT
- Fri., April 22, 12:00 - 1:30 PM EDT

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