

Agenda

Presented by Jason Charalambides

Understanding Structural Loads

- Types of structural loads
- General structural integrity
- Classifying buildings and structures
- Modifying and expanding existing structures

Dead Loads and Soil Loads

- Weight of materials and structure
- Soil loads

Live Loads

- Uniformly-distributed loads
- Concentrated loads
- Required live loads
- Impact loads

Snow and Ice Loads

- Calculating snow and ice loads
- Unbalanced, drifting and sliding loads

Wind Loads

- Wind speed, importance factor, exposure, enclosure
- Allowed procedures
- Basic definitions and requirements
- Main wind force resisting system

Earthquake Loads

- Scope and applicability
- Seismic ground motion values/geotechnical investigation
- Seismic design category
- Design criteria for bearing walls/building frame systems
- Design requirements for non-structural components

Examples

- Application of loads
- Design shortcuts

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at \$269. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

**Structural Design Loads
under the ASCE 7 Standard**
Columbia, MD - Wednesday, August 7, 2019



HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278

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Learning Objectives

You'll be able to:

Calculate dead loads and soil loads.

Design for live loads, including concentrated loads and impact loads.

Learn how to design for loads resulting from flood waters and waves.

Calculate rain, ice and snow loads on roofs.

Determine wind loads, factoring in wind speed, exposure, and enclosure classifications.

Explore earthquake loads and review design criteria for structural and nonstructural components.



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Receive an overview of the various types of structural loads

Learn how to design for dead loads, soil loads, and live loads

Understand how to design for loads resulting from flood waters and waves

Calculate rain, ice and snow loads on roofs

Explore wind load factors including wind speed, exposure and enclosure classifications

Receive design guidance related to earthquake loads

Continuing Education Credits

Professional Engineers
7.0 PDHs

Architects
7.0 HSW LUs/CE Hours
7.0 AIA HSW Learning Units

International Code Council
.7 CEUs (Building)

Contractors
Non-Credit Continuing Ed.



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Faculty

Jason Charalambides *PhD, PE, M.ASCE, AIA, ENV_SP*

Dr. Charalambides earned his B.A. degree in Architecture at the University of California at Berkeley. He possesses a CEAA graduate degree in History and Theory of Architecture from the École d’Architecture de Paris Villemin (France), an M.A. degree in Urban Rehabilitation and City Politics from the École Supérieure De Commerce Marseille-Provence (France), and a Master of Architecture and a Ph.D. in Civil Engineering from the University of Texas at Austin. The subject of his doctorate dissertation was on the design automation for tensegrity structures. Dr. Charalambides has been involved in higher education since 1999, teaching at institutions such as the University of Texas at Austin and Frederick University in Cyprus. Recently he is faculty at Morgan State University in Baltimore, teaching courses in Steel Design, Reinforced concrete Design, Masonry, and Architectural Design Studio, and he conducted research and experiments on concrete mixtures and additives. He is a recipient of a number of awards including a Fulbright scholarship, and he participated in numerous projects as practicing architect in Europe and in the US. He is a registered architect, civil engineer, and sustainability professional ENV_SP in Europe and in the US. His research interests are on design automation, numerical methods for construction professionals, space structures, construction materials, and sustainable design, focusing specifically on passive energy control and building materials.

Seminar Information

Sheraton Columbia Town Center Hotel
10207 Wincopin Circle
Columbia, MD 21044
(410) 730-3900

Tuition
\$289 for individual registration
\$269 for three or more registrations.
Included with your registration: *Complimentary continental breakfast and printed seminar manual. Registration does not include a copy of the ASCE7.*
Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register
• Visit us online at www.halfmoonseminars.org
• Mail-in or fax the attached form to 715-835-6066
• Call customer service at 715-835-5900

Registration
8:00 - 8:30 am
Morning Session
8:30 - 11:45 am
Lunch (on your own)
11:45 am - 12:45 pm
Afternoon Session
12:45 - 5:00 pm

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Continuing Education Credit Information
This seminar is open to the public and offers 7.0 PDHs to professional engineers in all states. HalfMoon Education is an approved continuing education provider for Maryland engineers.

This course offers 7.0 HSW LUs/continuing education hours to architects in all states. Courses approved by the American Institute of Architects are accepted in Maryland.

The American Institute of Architects has approved this seminar for 7.0 HSW Learning Units (Sponsor number J885). Only full attendance can be reported to the AIA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota.

Additional Learning

- Webinar Series**
- Retaining Structures**
- **Earth Pressures and Surcharges**
Wed., June 26, 2019, 11:00 AM - 12:30 PM CDT
 - **Cantilever & Apparent Earth Pressures**
Wednesday, June 26, 2019, 1:00 - 2:30 PM CDT
 - **Apparent Earth Pressures**
Thurs., June 27, 2019, 11:00 AM - 12:30 PM CDT

- Industrial Stormwater**
- **Understanding the Federal Industrial Stormwater Program**
Thurs., June 27, 2019, 11:00 AM - 12:30 PM CDT
 - **Examining Stormwater Pollutants and the Development of Total Maximum Daily Loads (TMDLs)**
Thurs., June 27, 2019, 1:00 - 2:00 PM CDT
 - **Creating Stormwater Pollution Prevention Plans (SWPPPs)**
Fri., June 28, 2019, 11:00 AM - 12:00 PM CDT
 - **Implementing Best Management Practices (BMPs), Sampling and Reporting**
Fri., June 28, 2019, 12:30 - 2:00 PM CDT

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

The international Code Council has approved this activity for .7 CEUs in the specialization area of Building (Preferred Provider No. 1232).

This course offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any state contractor licensing entity for continuing education credit.

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.

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Registration

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How to Register	Registrant Information
Online: www.halfmoonseminars.org	Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____
Fax: 715-835-6066	Code: Name: _____ Occupation: _____ Email: _____ Phone: _____
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
Complete the entire form. Attach duplicates if necessary.	
Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.	
() I need special accommodations. Please contact me.	

Tuition

() **I will be attending the live seminar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.

() **I am not attending.** Please send me the self-study package:

☐ Downloadable MP3 Audio/PDF Manual for **\$269.00**.

☐ CD/Manual Package for **\$289.00**.

(S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

Credit Card: *Mastercard, Visa, American Express, or Discover*

Credit Card Number: _____

Expiration Date: _____ CVV2 Code: _____

Cardholder Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Signature: _____

Email: _____