

# Seminar Agenda

*Presented by: Jake Evenson*

## Designing to Manage Wind Loads

Understanding wind loads and applicable building codes

- Causes and types of wind
- Wind velocity
- Wind turbulence
- Effects of terrain and structures
- Residential and commercial design loading compliance

Complying with ASCE 7-10 provisions on wind loads

- Determination of design wind pressure
- Low-rise buildings
- Buildings with H>60 degrees
- Simplified method
- Open buildings
- Building appurtenances
- Simplified method

Construction Considerations based on IRC and IBC 2015

- Lateral force resisting systems

## Designing to Manage Flood Loads

Understanding flood loads and applicable building codes

- Types of flood waters
- Types of flood hazard areas and flood prone structures
- Residential and Commercial design loading requirements

Complying with ASCE 7-10 and 24-14 provisions on flood loads

- Loads during flooding
- Design considerations for:
  - Non-coastal high hazard or coastal A zones
  - High risk flood hazard areas
  - Coastal high hazard areas and coastal A zones
  - Materials used in construction
  - Dry vs. wet flood proofing

## Designing to Manage Rain Loads

Understanding rain loads and applicable building codes

- Types and classifications of rain events
- Residential and Commercial design loading requirements

Complying with ASCE 7-10 provisions on rain loads

- Roof drainage
- Design rain loads
- Ponding instability
- Controlled drainage

**Weather Load Design and Construction:  
Managing Wind, Rain and Flooding**  
Columbia, SC - Thursday, September 29, 2016

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PO Box 278  
Altoona, WI 54720-0278



## Learning Objectives

**You'll be able to:**

**Understand** wind loads and their treatment under applicable building codes.

**Analyze** wind velocity and wind turbulence.

**Comply** with ASCE 7-10 provisions on wind loads.

**Study** low rise and open buildings, as well as building appurtenances and buildings with H>60 degrees.

**Comply** with ASCE 7-10 provisions on rain and flood loads.



# Weather Load Design and Construction: Managing Wind, Rain and Flooding



**Columbia, SC**

Thursday, September 29, 2016

**Understand** wind loads and their treatment under applicable building codes

**Identify** causes and types of wind

**Examine** effects of terrain and structures

**Learn** how to comply with ASCE 7-10 provisions on wind, rain and flood loads

**Explore** residential and commercial code compliance

**Discuss** design options

### Continuing Education Credits

*Architects*

- 6.5 HSW Continuing Ed. Hours
- 6.5 AIA HSW Learning Units

*Professional Engineers*

- 6.5 PDHs

*International Code Council*

- 6.5 Contact Hours

*Floodplain Managers*

- 6.5 ASFPM CECs

*Contractors*

- Non-Mandatory
- Continuing Ed.



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# Faculty

**Jake Eavenson, P.E.** *Cranston Engineering Group, P.C.*

Mr. Eavenson is a professional engineer and project manager at the structural engineering department of Cranston Engineering Group in Hilton Head Island, South Carolina. During his career, Mr. Eavenson has designed and been involved in the construction administration of numerous building projects with a large focus on the coastal effects of a high wind zone and flood loading. He has experience in nearly every type of building structure including recreation and athletic facilities, municipal buildings and structures, churches, educational facilities, office buildings, hospitals and other medical buildings, historic structures, and marine structures. His experience also includes bridge design, historic preservation projects, and an extensive background in the design of retaining walls. He is experienced in using various complex computer software for structural optimization of the design process. Mr. Eavenson earned his B.S.C.E degree from Georgia Institute of Technology.

# About the Seminar

Columbia Marriott  
1200 Hampton St.  
Columbia, SC 29201  
(803) 771-7000

Registration  
8:00 - 8:30 am  
Morning Session  
8:30 am - 12:00 pm  
Lunch (On your own)  
12:00 - 1:00 pm  
Afternoon Session  
1:00 - 4:30 pm

## Tuition

**\$269** for individual registration  
**\$249** for three or more simultaneous registrations. Each registration includes one copy of the seminar manual.

**Receive a reduced tuition rate of \$101** by registering to be our on-site coordinator for the day. For availability and a job description, go online to [www.halfmoonseminars.org](http://www.halfmoonseminars.org).

## Four Easy Ways to Register Today!

Register online at [www.halfmoonseminars.org](http://www.halfmoonseminars.org), mail in the registration form to **HalfMoon Education Inc., PO Box 278 Altoona, WI 54720-0278**, fax the form to (715) 835-6066, or call a customer service representative at (715) 835-5900.

**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 CD/manual package. You may also send another person to take your place.

## Continuing Education Credit Information

This seminar is open to the public and offers 6.5 HSW continuing education hours to architects and 6.5 PDHs to professional engineers in all states. Educators and courses are not subject to preapproval in South Carolina.

The American Institute of Architects has approved this event for 6.5 HSW Learning Units (Sponsor No. J885). Courses approved by the AIA qualify for North Carolina architects.

HalfMoon Education is an approved continuing education sponsor for architects in Florida and is deemed an approved sponsor in New York. HalfMoon education is an approved continuing education sponsor for engineers in Florida, Indiana, Louisiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota.

The International Code Council has approved this event for 6.5 contact hours (.65 CEUs) in the specialty area of Building.

The Association of State Floodplain Managers has approved this course for 6.5 CECs.

This program offers a continuing education opportunity to contractors but has not been submitted to any state building contractor licensing board for 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.

# Webinar Series

## Seismic Design and Construction

- **Seismology and Building Codes**  
Tues., August 9, 11:00 AM - 3:30 PM CDT
- **Seismic Design of Building Structures**  
Thurs., August 11, 11:00 AM - 3:30 PM CDT

## Proposal and Technical Writing

- **Proposal Writing**  
Wed., August 10, 11:00 AM - 3:30 PM CDT
- **Planning Documents**  
Wed., August 17, 11:00 AM - 1:00 PM CDT
- **Revising and Editing Documents**  
Wed., August 17, 1:30 - 3:30 PM CDT
- **Writing Documents**  
Thurs., August 18, 11:00 AM - 1:00 PM CDT
- **Technical Writing Basics**  
Thurs., August 18, 1:30 - 3:30 PM CDT

## Solar Photovoltaic Project Design and Development Series

- **Solar Photovoltaic Project Design and Development, Part I**  
Thurs., September 8, 11:00 AM - 3:15 PM CDT
- **Solar Photovoltaic Project Design and Development, Part II**  
Fri., September 9, 11:00 AM - 2:15 PM CDT

## Soil Engineering Series

- **Introduction to Soil Engineering**  
Wed., September 14, 11:00 AM - 12:30 PM CDT
- **Design of Excavation Support Systems**  
Wed., September 14, 1:00 - 2:30 PM CDT
- **Slope Repair Techniques**  
Thurs., September 15, 11:00 AM - 12:30 PM CDT
- **Practical Approaches to Foundations and Retaining Structures**  
Thurs., September 15, 1:00 - 2:30 PM CDT

For more information visit:  
[www.halfmoonseminars.org/webinars/](http://www.halfmoonseminars.org/webinars/)

## CD Manual

An audio recording of this seminar is available for \$279 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

# Registration

**Weather Load Design and Construction: *Managing Wind, Rain and Flooding***  
Columbia, SC - Thursday, September 29, 2016

## How to Register

**Online:**  
[www.halfmoonseminars.org](http://www.halfmoonseminars.org)

**Phone:**  
715-835-5900

**Fax:**  
715-835-6066

Key Code

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

**Complete the entire form.**  
Attach duplicates if necessary.

## Registrant Information

Name: \_\_\_\_\_

Company/Firm: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Occupation: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

## Additional Registrants:

Name: \_\_\_\_\_

Occupation: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Name: \_\_\_\_\_

Occupation: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

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 - **\$269.00**. Three or more registrants from the same company registering at the same time - **\$249.00** each.

( ) **I am not attending.** Please send me the CD manual package for **\$279.00**. (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: \_\_\_\_\_

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