

Agenda

*Presented by Greg Buccola, PE, SE;
Jason White, PE, LEED AP BD+C; and Aaron Daley, PE*

Understanding Structural Loads

Types of structural loads
Overview of our responsibility as design professionals
Review LRFD vs. ASD design methodologies
Occupancy classifications and the effect on performance
Classifying buildings and structures
Modifying and expanding existing structures

Dead Loads, Soil Loads and Hydrostatic Pressure

Weight of materials and structure
Soil loads and hydrostatic pressure

Live Loads

Uniformly-distributed loads
Concentrated loads
Required live loads
Impact loads

Flood Loads

Design loads
Loads on breakaway walls
Hydrostatic and hydrodynamic loads
Wave loads

Rain, Ice and Snow Loads

Calculating rain, ice and snow loads on roofs
Design coefficients that influence snow loading
Unbalanced, drifting and sliding loads

Wind Loads

Wind speed, importance factor, exposure, enclosure classifications
Allowed procedures (methods 1, 2 and 3)
Basic definitions and requirements
Main wind force resisting system vs. components and cladding

Earthquake Loads

Scope and applicability
Seismic ground motion values/geologic hazards and geotechnical investigation

- Importance factor and occupancy category
- Seismic design category
- Design requirements for non-structural components

Structural Design Loads under the ASCE 7 Standard
Lexington, KY - Thursday, June 28, 2018

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Learning Objectives

You'll be able to:

Identify various types of structural loads.

Define design standards for live loads, dead loads, and soil 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 seismic design criteria.



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

Engineers

7.0 HSW CPE Hours/PDHs

Architects

7.0 HSW CPE Hours/CE Hours
7.0 AIA Learning Units

Kentucky Building Inspectors

7.0 Continuing Ed. Hours

International Code Council

.7 CEUs (Building)

Contractors

Non-Credit Continuing Ed.



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Faculty

Greg Buccola, PE, SE *Engineer and Manager at KPFF*
Mr. Buccola is a professional structural engineer with more than 14 years of experience in the industry. Currently, he manages the Louisville office of KPFF—part of a nationwide firm with over 1,100 employees and 20 offices across the country. Mr. Buccola is a transplant from Los Angeles where he started his career with KPFF and simultaneously taught undergraduate structural engineering courses at Cal Poly Pomona. He spent the last seven years in Louisville overseeing design teams on a host of projects throughout the U.S. He recently left a Louisville-based A/E firm where he was vice president, to open and manage the KPFF Louisville office in 2017 where they are now 16 people-strong. They specialize in the rehabilitation of existing buildings, and in the construction of medical office buildings, industrial facilities, design-build projects, and housing/hospitality projects. He is a licensed professional engineer in 36 states.

In his spare time, Mr. Buccola enjoys travelling with his wife Valerie, who is responsible for introducing him to the second love of his life: her home state of Kentucky. Weekends are spent together with their four kids, discovering all that Louisville has to offer. Mr. Buccola is also a cancer survivor, a foster parent, and a Louisville Business Journal “2012 Forty Under 40” honoree.

Seminar Information

**Courtyard by Marriott
Keenland/Airport**
3100 Wall Street
Lexington, KY 40513
(859) 224-0460

Tuition

\$279 for individual registration
\$259 for three or more registrations.

Each registration includes a complimentary continental breakfast and printed seminar manual. Registration does not include a copy of ASCE 7.

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

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.

Jason White, PE, LEED AP BD+C *Senior Structural Engineer*
Mr. White is a professional structural engineer with more than 13 years of experience in the industry. Currently, he is a senior structural engineer in the Louisville office of KPFF – part of a nationwide firm with over 1,100 employees and 20 offices across the country. They specialize in the rehabilitation of existing buildings, and in the construction of medical office buildings, industrial facilities, design-build projects, and housing/hospitality projects. After graduating from Clemson University in 2005, Mr. White started his career in Myrtle Beach, SC designing reinforced concrete high rise structures, multi-family condominiums, and office buildings. He spent the last nine years designing structures throughout the country for the Department of Defense, ranging from small CMU training buildings to full compounds, as well as Army Reserve Training Centers. In his spare time, Mr. White and his wife Allyson enjoy spending time outdoors hiking, kayaking, and exploring local areas. They have a one-year-old daughter that fulfills their lives. Mr. White also loves watching and attending college football games and cheering on his alma mater Clemson Tigers.

Aaron Daley, PE *Structural Engineer*
Mr. Daley is a professional structural engineer with 4 years of experience in the industry. He currently works at the Louisville

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 HSW continuing professional education hours to engineers and architects in Kentucky and all other states, except Florida architects. Educators and courses are not subject to preapproval in Kentucky.

This event is approved by the American Institute of Architects Continuing Education System for 7.0 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA/CES.

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

The Kentucky Department of Housing, Buildings and Construction has approved this seminar for 7.0 continuing education hours for building inspectors.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building.

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

office of KPFF Consulting Engineers and is experienced in rehabilitation of existing structures, design of industrial facilities, and wood-framed construction. Mr. Daley enjoys a wide variety of projects, and has on-the-job experience in seven states ranging from New Mexico to Florida to Ohio. KPFF has given him endless learning possibilities and professional resources, given their national status as a leading structural firm with over 1,100 employees and 20 offices in nine states. Mr. Daley received in PE license in June 2017 and is always looking forward to his next design challenge.

A proud alumnus of Western Kentucky University (BS, ’13) and The University of Kentucky (MS, ’14), Mr. Daley enjoys college sports and loves to make visits back to both campuses for football and basketball games. After starting work in Lexington, Kentucky after graduation, he jumped at an opportunity to get back to Louisville, where he and his wife grew up. Mr. Daley spends his free time outdoors hiking, biking, and gardening. He is also invested in high school STEM outreach, serving as a judge and mentor in several local science camps and competitions.

Additional Learning

Webinar Series

Pedestrians and Bicycle Transport Planning

- **Introduction to Current Conditions and Trends in Biking and Walking**
Thurs., June 21, 2018, 11:00 AM - 12:30 PM CDT
- **Engineering and Infrastructure: Design for Walkability and Bikeability**
Thurs., June 21, 2018, 1:00 - 2:30 PM CDT
- **Developing a Walking and Biking Plan, Part I**
Fri., June 22, 2018, 11:00 AM - 12:30 PM CDT
- **Developing a Walking and Biking Plan, Part II**
Fri., June 22, 2018, 1:00 - 2:30 PM CDT

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

Can’t Attend? Order the CD/Manual Package:
An audio recording of this seminar is available for \$289 (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

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How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____ Company/Firm: _____ Address: _____ City:_____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____
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Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____
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 - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.
- () **I am not attending.** Please send me the 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.

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