

Agenda

Presented by Rob McConnell

Functional Design of Parking Garages

- Parking structure classification
- Determining parking occupancy type
- Site design
- Parking structure planning
 - Layout
 - Circulation
 - Vertical communication
- Drainage
- Fire prevention and protection
- Vehicle and pedestrian egress

Parking Structure System Design

- Structural requirements for parking garages
 - Seismic design
 - Wind load resistance
- Use of shear walls
- Horizontal vs. vertical walls
- Simplified stiffness analysis
- Resistance to overturning
- Moment-resisting frames
- Diaphragm design

Parking Structure Design Continued

Connection Design Considerations

Parking Structure Maintenance, Restoration, and Repair

- Benefits and challenges for various types of parking structures
- Service life expectations
- Condition assessment
- Optimum timing for repairs
- Routine repair and maintenance
- Proactive repair and maintenance

Parking Structure Design, Construction and Maintenance
Charlotte, NC - Tuesday, February 20, 2018

NON-PROFIT
U.S. POSTAGE PAID
EAU CLAIRE, WI
PERMIT NO. 2016

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



Learning Objectives

You'll be able to:

- Determine** parking occupancy types, and understand the parking structure planning process.
- Understand** seismic design and wind load resistance.
- Examine** service life expectations for parking structures.
- Discuss** fire protection and prevention in regards to parking structures.
- Conduct** routine and proactive repairs and maintenance.



Parking Structure Design, Construction and Maintenance

Charlotte, NC - Tuesday, February 20, 2018



- Learn** about parking structure classification
- Discuss** site design
- Understand** parking structure system design

- Identify** structural requirements for parking garages
- Examine** connection design considerations
- Explore** parking structure maintenance, restoration and repair

Continuing Education Credits

Professional Engineers
6.5 PDHs

Certified Planners
6.5 CM Credits

Architects
6.5 HSW Contact Hours
6.5 AIA HSW Learning Units



HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG



Faculty

Rob McConnell, P.E. *Vice President Parking Solutions*

Mr. McConnell's parking design and consulting experience encompasses more than 20 years of work with airports, governmental agencies, and with military, transit, higher education, resort, healthcare, and corporate clients. He is well-versed in precast concrete, cast-in-place concrete, and steel construction. Mr. McConnell's experience includes numerous restoration, parking study, and programming projects. Several of his projects have received LEED certification, including Colorado State University's Lake Street parking facility, which received LEED Gold.

Seminar Information

Charlotte Marriott South Park 2200 Rexford Road Charlotte, NC 28211 (704) 364-8220	Registration 8:00 - 8:30 am Morning Session 8:30 am - 12:15 pm	Lunch (On your own) 12:15 - 1:15 pm Afternoon Session 1:15 - 4:30 pm
--	---	---

Tuition

\$279 for individual registration
\$259 for three or more simultaneous registrations.
Each registration includes a complimentary continental breakfast and printed 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.

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.

Additional Learning

Webinar Series

- Seismic Design and Construction**
- **Seismology and Building Codes**
Wed., Dec. 27, 2017, 11:00 AM - 3:30 PM CST
 - **Seismic Design of Building Structures**
Thurs., Dec. 28, 2017, 11:00 AM - 3:30 PM CST

- The Distributed Battery Webinar Series**
- **The Distributed Battery Webinar, Part I**
Thurs., Dec. 28, 2017, 11:00 AM - 2:15 PM CST
 - **The Distributed Battery Webinar, Part II**
Fri., Dec. 29, 2017, 11:00 AM - 2:15 PM CST

- Technical Writing**
- **Technical Writing Basics**
Tues., Jan. 9, 2018, 11:00 AM - 1:00 PM CST
 - **Planning Documents**
Tues., Jan. 9, 2018, 1:30 - 3:30 PM CST
 - **Writing Documents**
Wed., Jan. 10, 2018, 11:00 AM - 1:00 PM CST
 - **Revising and Editing Documents**
Wed., Jan. 10, 2018, 1:30 - 3:30 PM CST

- Masonry Design and Construction**
- **Introduction to Masonry Materials and Requirements**
Thurs., Jan. 11, 2018, 11:00 AM - 1:00 PM CST
 - **Masonry Construction Techniques**
Thurs., Jan. 11, 2018, 1:30 - 3:30 PM CST
 - **Quality Control and Sampling**
Fri., Jan. 12, 2018, 11:00 AM - 1:00 PM CST
 - **Masonry Inspections and the Masonry Standards Joint Committee (MSJC) Code**
Fri., Jan. 12, 2018, 1:30 - 3:30 PM CST

- Deep Foundations**
- **Deep Foundation Site Evaluation**
Wed., Jan. 17, 2018, 11:00 AM - 12:00 PM CST
 - **Overview of Deep Foundations**
Wed., Jan. 17, 2018, 12:30 - 2:00 PM CST
 - **Deep Foundation Pile Design**
Thurs., Jan. 18, 2018, 11:00 AM - 12:30 PM CST
 - **Deep Foundation Installation and Testing**
Thurs., Jan. 18, 2018, 1:00 - 2:00 PM CST

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

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers in all states. HalfMoon Education is an approved engineer continuing education provider in North Carolina (S-0130). It offers 6.5 HSW contact hours/CE hours to architects in all states, except Florida.

This event is approved by the American Institute of Architects Continuing Education System for 6.5 HSW Learning Units (Sponsor No. J885). Courses approved by the AIA qualify for North Carolina architects. Only full attendance can be reported to the AIA.

HalfMoon Education is deemed an approved architect continuing education sponsor for architects in New York. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Louisiana, Maryland, New York, and North Dakota.

The American Planning Association has approved this course for 6.5 CM credits, which includes no ethics and professionalism credits or law credits.

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.

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

Parking Structure Design, Construction and Maintenance
Charlotte, NC - Tuesday, February 20, 2018

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:
Fax: 715-835-6066	Name: _____ Occupation: _____ Email: _____ Phone: _____ 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 - **\$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.

Credit Card: *Mastercard, Visa, American Express, or Discover*
Credit Card Number: _____
Expiration Date: _____ CVV2 Code: _____
Cardholder Name: _____
Billing Address: _____
City: _____ State: _____ Zip: _____
Signature: _____
Email: _____