

Agenda

Presented by David W. Ryan,
Bradly F. Navarro and Diego F. Romero

Planning for Structured Parking

- How many spaces are needed
- Shared parking concepts
- Site selection

Functional Design

- Introduction
- Types of parking structures
- The level of service approach
- Parking geometrics
- Circulation systems

Building Codes

- Life safety issues
- Means of egress
- Guards and vehicle barriers

Accessible Parking Design

- Introduction to ADA
- Parking design under ADA
- Other considerations

Passive Security, Lighting and Other Design Elements

Open Q & A and Case Studies/Examples

Structural Systems

- Cast-in-place, post-tensioned
- Precast, prestressed
- Structural design overview

Designing for Durability

- Concrete admixtures
- Expansion joint systems
- Joint sealants
- Traffic coatings
- Life cycle cost

Maintenance, Restoration, and Repair

- The deterioration curve
- Benefits and challenges for various types of parking structures
- Condition assessments
- Establishing a restoration program
- Repair documents
- Routine repair and maintenance
- Proactive repair and maintenance
- Structural repairs

Design for Adaptive Use

- What is adaptive use
- Adaptive reuse concepts and basic costs

Open Q & A and Case Studies/Examples

Parking Structure Design,
Construction and Maintenance

Kansas City, MO - Thursday, November 29, 2018



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

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

Learning Objectives

You'll be able to:

Look at site selection criteria and explore shared parking concepts.

Understand accessible parking design under the ADA, and talk about life safety issues.

Review different structural systems, including pre-cast, cast-in-place and post-tensioned.

Design for durability with concrete admixtures and expansion joint systems.

Learn about maintaining and repairing various types of parking structures.



Parking Structure Design, Construction and Maintenance

Kansas City, MO - Thursday, November 29, 2018



Understand functional design, including parking geometrics and circulation systems

Explore precast and cast-in-place structural systems

Examine passive security and lighting

Learn about accessible parking design

Design for durability with traffic coatings and joint sealants

Discuss maintenance, restoration and repair

Continuing Education Credits

Professional Engineers

6.5 PDHs

Contractors

Non-Credit Continuing Ed.

Architects

6.5 HSW CEUs/CE Hours

6.5 AIA HSW Learning Units



HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG



Faculty

David W. Ryan, P.E.
Vice President and Managing Principal of Walker Consultants (Chicago)

Mr. Ryan has more than 20 years of experience in the parking industry including new parking structure design, restoration, functional design consulting, studies, master planning and car park management systems. He has worked to develop effective parking solutions for various client types including developers, municipalities, universities, hospitals, casinos and private corporations. Mr. Ryan received his bachelor of science degree in Civil Engineering from the University of Illinois at Urbana Champaign and is a registered professional engineer in Illinois, Missouri, and Wisconsin.

Bradly F. Navarro, P.E.
Principal and the Director of Operations of Walker Consultants (Chicago)

Mr. Navarro has 18 years of experience in parking planning, design, and consulting, and he oversees the production and quality assurance process for all design projects handled by Walker’s Chicago offices. He has consulted on hundreds of parking-related projects, lending expertise to site selection, engineering, building code analysis, durability design, and facility maintenance and restoration. In addition, he is recognized as a leading parking functionality designer in the industry and serves as engineer-of-record on select Walker projects. Mr. Navarro received his bachelor of science degree in Civil Engineering from the University of Illinois at Urbana-Champaign; is a licensed professional engineer in Illinois, Missouri, and Iowa; and was recently awarded the National Parking Association’s 40 Under 40 Award.

Diego F. Romero, P.E.
Restoration Consultant for Walker Consultants (Chicago)

Mr. Romero specializes in concrete durability and structural engineering, more specifically in the investigation, analysis, and repair of distressed structures, including parking structures and building envelopes. He has worked on a wide variety of structures, from evaluating wooden roof trusses of 19th century churches to assessing the condition of 460-foot tall concrete power plant cooling towers. Mr. Romero also leads the development and implementation of the firm’s photogrammetry 3D modeling and unmanned aerial vehicles services for restoration projects and is a member of ACI 364 (Rehabilitation), ACI 440 (Fiber Reinforced Polymer Reinforcement), and ACI 564 (Repair of Concrete). He received his doctorate degree in Structural Engineering from the University of Miami, and he is a registered professional engineer in Illinois and Texas.

Seminar Information

Kansas City Marriott Country Club Plaza
4445 Main Street
Kansas City, MO 64111
(816) 531-3000

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

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to engineers in all states and 6.5 HSW CEUs/continuing education hours to architects in all states, except Florida architects. Educators and courses are not subject to preapproval in Missouri.

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Provider No. J885). Only full attendance can be reported to the AIA/CES.

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. HalfMoon Education is deemed an approved continuing education sponsor for New York architects.

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

Webinar Series

- HEC-RAS Webinar Series**
- **Hydraulic Principles and Applications**
Thurs., Oct. 18, 2018, 11:00 AM - 1:00 PM CDT
 - **Working with the HEC-RAS User Interface**
Thurs., Oct. 18, 2018, 1:30 - 3:00 PM CDT
 - **Water Surface Profiling**
Fri., Oct. 19, 2018, 11:00 AM - 1:00 PM CDT
 - **Steady Flow Surface Profile Demonstrations**
Fri., Oct. 19, 2018, 1:30 - 3:30 PM CDT

- Construction Cost Estimating**
- **Introduction to Cost Estimating**
Thurs., Oct. 25, 2018, 11:00 AM - 12:30 PM CDT
 - **Cost Components – A Closer Look at the Estimates**
Thurs., Oct. 25, 2018, 1:00 - 3:00 PM CDT
 - **Cost Estimate Organization and Examples**
Fri., Oct. 26, 2018, 11:00 AM - 1:00 PM CDT
 - **Cost Estimating Topics**
Fri., Oct. 26, 2018, 1:30 - 3:00 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

Parking Structure Design, Construction and Maintenance

Kansas City, MO - Thursday, November 29, 2018

How to Register	Registrant Information Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ 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.
Online: www.halfmoonseminars.org	
Phone: 715-835-5900	
Fax: 715-835-6066	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
Complete the entire form. Attach duplicates if necessary.	

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