

Agenda

Presented by
Rick Klein, P.E., Dan Johns, P.E., and Jared Wright, P.E.

Planning for Structured Parking

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

Functional Design

- IntroductionTypes of parking structures
- The level of service approach
- Parking geometricsCirculation systems

Building Codes

- Life safety issuesMeans of egress
- Guards and vehicle barriers

Accessible Parking Design

- Introduction to ADAParking 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, prestressedStructural design overview

Designing for Durability

- Concrete admixturesExpansion joint systems
- Joint sealantsTraffic coatings
- Life cycle cost

Maintenance, Restoration, and Repair

- The deterioration curve
- Benefits and challenges for various types of parking structures
- Condition assessmentsEstablishing a restoration program
- Repair documentsRoutine repair and maintenance
- Proactive repair and maintenance
- Structural repairs

Design for Adaptive Use

- What is adaptive useAdaptive reuse concepts and basic costs

Open Q & A and Case Studies/Examples

Parking Structure Design,
Construction and Maintenance
Coraopolis, PA - Thursday, October 17, 2019

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Learning Objectives

You'll be able to:

- Learn** about planning for structured parking, including site selection.
- Explore** parking geometrics and circulation systems.
- Examine** life safety issues, means of egress, and guards and vehicle barriers.
- Review** accessible parking design.
- Study** structural design systems, designing for durability and maintenance issues.



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6.5 PDHs

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Non-Credit Continuing Ed.

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6.5 HSW Continuing Ed. Hours
6.5 AIA LU|HSW



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Rick Klein, P.E. *Vice President and Managing Principal of Walker Consultant’s Michigan office*
Mr. Klein is vice president and managing principal of Walker Consultant’s Michigan office. He has more than 20 years of experience in the parking industry including new parking structure design, restoration, functional design consulting, studies, and car park management systems. He has worked to develop effective parking solutions and asset management plans for various client types including developers, municipalities, universities, hospitals, casinos and private corporations. Mr. Klein received his bachelor of science degree from the University of Michigan, and he is a registered engineer in the States of Michigan, Ohio, Pennsylvania, and New York.

Dan Johns, P.E. *Director of Design for Walker Consultant’s Michigan and Pittsburgh offices*
Mr. Johns is the director of design for the Michigan and Pittsburgh offices. Mr. Johns has 33 years of experience with Walker and recently returned from an 11-year stint of managing Walker’s Los Angeles office. He has extensive project responsibilities that include project management, new business development, client relations and coordination of architecture, engineering and other technical personnel. His expertise includes functional design of new parking facilities, study services and restoration condition appraisals and design of existing parking facilities. Mr. Johns received his bachelor of science degree in Civil Engineering from Michigan State University and is a registered engineer in the States of Michigan, Ohio and California.

Jared Wright, P.E. *Restoration Consultant for Walker Consultant’s Pittsburgh office*
Mr. Wright is a restoration consultant for Walker Consultant’s Pittsburgh office. He specializes in repair and maintenance of the built environment; including parking structures, plaza, and high-rise buildings. Among other activities, his duties include performing restoration condition appraisals, designing repairs, and conducting construction observations and administration during implementation of repairs. Mr. Wright also performs asset management planning work to assist facility owners with long term planning and budgeting aimed at maximizing the useful service life of their facilities. One of his main interests and areas of expertise are the fresh, hardened, mechanical, and durability properties of concrete. Mr. Wright received his master of science degree in Civil and Environmental Engineering from The Pennsylvania State University and his bachelor of science degree in Civil and Environmental Engineering from University of Illinois at Urbana-Champaign. He is a registered engineer in the State of Washington.

Seminar Information

Pittsburgh Airport Marriott
777 Aten Road
Coraopolis, PA 15108
(412) 788-8800

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
\$289 for individual registration
\$269 for three or more registrants from the same company at the same time.
Included with your registration: *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 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 6.5 PDHs to professional engineers and 6.5 continuing education hours to architects in all states, except Florida architects. Educators and courses for Pennsylvania engineers are not subject to pre-approval.

This seminar is approved by the American Institute of Architects Continuing Education System for 6.5 LU|HSW (Sponsor No. J885). Only full attendance can be reported to the AIA/CES. Visit www.halfmoonseminars.org for complete AIA information under this course listing.

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

Additional Learning

Webinar Series

Introduction to Hydro Energy Logic Modeling Software (HELP-FL)

- **Introduction to Hydro Energy Logic Program Modeling Software (HELP-FL), Part I**
Tues., August 20, 2019, 11:00 AM - 2:00 PM CDT
- **Introduction to Hydro Energy Logic Program Modeling Software (HELP-FL), Part II**
Wed., August 21, 2019, 11:00 AM - 2:30 PM CDT

Small Wind Energy Systems

- **Small Wind Energy System Components**
Thurs., August 22, 2019, 11:00 AM - 1:00 PM CDT
- **Small Wind Energy Siting and Sizing**
Fri., August 23, 2019, 11:00 AM - 1:00 PM CDT

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

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..

Registration

Parking Structure Design, Construction and Maintenance

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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.	
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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.

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