

Agenda

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

Natick, MA - Tuesday, September 10, 2019

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PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Plan for structured parking by evaluating parking needs, reviewing sites and considering shared parking options.

Explore parking geometrics and circulation systems.

Examine life safety issues, means of egress and guards and vehicle barriers.

Review accessible parking design.

Design for durability using concrete admixtures and joint sealants.

Develop plans for both routine and proactive repair and maintenance.



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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

Continuing Education Credits

Architects

6.5 HSW Contact Hours
6.5 AIA LU|HSW

Professional Engineers

6.5 Contact Hours (PDHs)

Contractors

Non-Credit Continuing Ed.



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Faculty

Adam Levesque, PE
Project Manager/Structural Engineer in Walker Consultants' Boston office
Mr. Levesque has more than 12 years of experience in the rehabilitation, assessment, and design of building structures. His extensive background in structural engineering includes parking garages, waste water, agricultural, office, retail, and healthcare structures. As a project manager, Mr. Levesque's responsibilities include client interface, project team coordination and communication throughout each project. He has hands-on experience with establishing priority repair programs and detailed knowledge of maintenance/repair program and the benefits and problems they can pose.

Art Stadig, PE *Managing Principal in Walker Consultants' Boston office*
Mr. Stadig's responsibilities include project management, consulting, management of staff, and marketing. He joined Walker's Kalamazoo office in 1985 and served as project manager on many projects in Denver, Tampa, and Philadelphia. Mr. Stadig is a registered professional engineer in nine states and is active in a number of professional associations, both locally and nationally. An expert in parking design, parking consulting and master planning, he has helped clients on a local, national, and international basis to optimize their parking operations and select the best parking system to fit their needs. Mr. Stadig has worked on several hundred parking projects in the region including over 50 parking structures. He is actively involved in the research and review of emerging technologies such as automated and mechanical parking, as well as the effects of transportation network companies (TNCs) and the impact of autonomous vehicles (AVs) on parking.

Marc Stonier, PE *Director of Design/Structural Engineer in Walker Consultants' Boston office*
Mr. Stonier started his career at Walker Consultants during his Co-op program with Northeastern University. Upon his graduation in 2008, he joined the Walker Team as a structural engineer.

Throughout his 11 years with Walker, Mr. Stonier has been involved in the structural design of parking as well as the restoration of structures. As director of design, he is involved in managing and overseeing the production of study, consulting and new design projects. His background in parking consulting, structural design, project management, and engineering services allows him to plan and phase projects accurately, monitor the project progress, and participate in all areas of project development. His recent projects vary in size and complexity from the design of a new 350 space parking structure to master planning and design for 3,000+ spaces on multiple healthcare campuses. Mr. Stonier is also the company's corporate director of building information modeling (BIM). His knowledge in the application and use of advanced CAD & BIM technologies within the A/E industry is a valuable resource in the evaluation and restoration of existing building structures. He is actively involved in Walker's efforts to utilize advanced laser surveying equipment to construct precise models and CAD/BIM documentation of existing as-built conditions.

Sarah M. Morkos, AIA, LEED AP
Project Architect/Sustainable Design Leader with Walker Consultants
Ms. Morkos started her career at Walker Consultants in 2012 as a design architect. Prior to joining Walker, she worked for an A/E firm focusing on document production and large-scale building designs. During her six years with Walker, Ms. Morkos has been involved in the architectural design of parking structures, parking and signage consulting, as well as the restoration of structures. She specializes in bicycle and pedestrian planning. Ms. Morkos has presented on different components of bicycle commuting and how to keep pace with today's commuting patterns in parking structure designs. She has also written articles on the integration of bicycle storage in parking garages. Most recently, Ms. Morkos did an interview for the "Outspoken Cyclist" podcast. She is a Parksmart garage assessor.

Seminar Information

Courtyard by Marriott Natick
342 Speen Street
Natick, MA 01760
(508) 655-6100

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 HSW contact hours to architects and 6.5 PDHs to engineers in most states. Educators and courses for Massachusetts architects are not subject to pre-approval.

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

Architects and engineers seeking continuing education credit in other states will be able to apply the hours earned at this seminar, in most cases. Refer to specific state rules to determine eligibility.

Courses for New York engineers offered by sponsors recognized, and courses approved by, the American Institute of Architects are considered approved if they contribute to the development and maintenance of professional knowledge in approved subject areas. HalfMoon Education is deemed an approved New York architect continuing education provider via its relationship with the AIA.

HalfMoon Education is an approved continuing education provider for New Jersey engineers (Approval No. 24GP00000700). Courses approved by the AIA qualify for New Jersey architects.

This seminar offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any state with a construction contractor continuing education requirement.

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 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

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How to Register		Registrant Information	
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Complete the entire form. Attach duplicates if necessary.		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 - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.
() **I am not attending.** Please send me the self-study package:

- ☐ Downloadable MP3 Audio/PDF Manual for **\$269.00**.
- ☐ 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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