

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

Secaucus, NJ - Friday, October 25, 2019



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Learning Objectives

You'll be able to:

Look at site selection criteria and explore shared parking concepts.

Understand 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.



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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 CPC Credits/PDHs

Architects

6.5 HSW Continuing Ed. Hours

6.5 AIA LU|HSW

Contractors

Non-Credit Continuing Ed.



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David Vander Wal, PE *Senior Vice President in Walker Consultants’ New York Office*

Mr. Vander Wal has been with Walker for over 30 years, serving as a senior project manager as well as in managerial capacities. Prior to joining Walker he worked for a structural engineering firm specializing in public transportation. Currently the design principal for Walker’s New York office, Mr. Vander Wal brings a wide range of experience in parking design, including structural engineering, project management, conceptual and master planning, and restoration. He has been involved in designing parking structures for governments, airports, mixed-use developments, casinos, hospitals, and universities. Mr. Vander Wal has a strong interest in the unique challenges of designing user-friendly parking on constrained sites where vehicular access, pedestrian circulation, exit queuing and tight structural grids make it difficult to meet efficiency goals and user goals simultaneously. He has worked in countries all over the world, as well as here in the Metro area, to create high-functioning but cost-effective solutions. Mr. Vander Wal is licensed in six states, is on the board of the New York State Parking Association, and is a member of the International Council of Shopping Centers.

Scott Ashley, PE *Director of Operations in Walker Consultants’ New York Office*

Mr. Ashley has been with Walker for ten years and serves as the director of operations and chief engineer for the New York office. He also worked in forensic structural engineering before moving to New York. As director of operations, Mr. Ashley oversees all design projects done in the New York office, including structures for large public agencies, medical campuses, and private developments. His projects have ranged in size from a two-level garage with just over 100 spaces to garages with more than 1,100 spaces. His background in engineering and structural

Seminar Information

Holiday Inn Secaucus Meadowlands
300 Plaza Drive
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(201) 348-2000

Tuition
\$289 for individual registration
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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 up to 6.5 CPC credits/PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states. HalfMoon Education is an approved continuing education provider for New Jersey engineers (Approval No. 24GP00000700).

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

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects.

This seminar offers a non-credit continuing education opportunity to contractors; it has not been approved in any state that has a 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.

design, parking consulting and project management enables him to guide a team of consultants from different disciplines and to serve as a trusted advisor to his clients, bringing projects from the initial planning stages through approvals; to detailed design of foundations, superstructures, durability elements and architecture; through construction and testing. He is a member of the Precast Concrete Institute and the American Institute of Steel Construction.

Nicholas Frezza, Assoc. AIA *Parking Consultant in Walker Consultants’ New York Office and Automation Technologies Leader for Walker.*

Mr. Frezza has been with Walker for ten years and worked for another parking specialist firm for several years before coming to Walker. His projects include consulting projects to help clients solve specific design challenges, as well as project management of new structures through all phases of design and through construction. Mr. Frezza has worked in Walker’s Dubai office as well as New York; in the Dubai office he worked on development projects for new neighborhoods, integrating parking into complex larger networks of vehicular and pedestrian circulation, as well as working on underground and podium parking systems with thousands of parking spaces that he integrated into larger campus circulation and structural grids. With a background in architecture, Mr. Frezza is a key resource for code analyses, particularly as they relate to ADA parking requirements. Additionally, he has taken a strong interest in parking technologies, including space-saving automated (“robotic”) parking systems. Mr. Frezza is Walker’s leader for automated parking, providing input on projects all over the country. Mr. Frezza was named as one of the National Parking Association’s “40 Under 40” in 2018.

Additional Learning

Boundaries and Easements Webinar Series

Locating Land Boundaries on Paper (And on the Ground)
Wed., September 25, 2019, 11:00 AM - 12:30 PM CDT

Physical Evidence and Boundaries
Wed., September 25, 2019, 1:00 - 2:30 PM CDT

Easements: Understanding Possessive
Thurs., September 26, 2019, 11:00 AM - 12:30 PM CDT

Disputes: Boundaries, Shared Spaces, and Split Estates
Thurs., September 26, 2019, 1:00 - 2:30 PM CDT

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

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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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