

Agenda

Presented by
Scott Froemming, PE; Carl L. Schneeman, PE;
Michael H. Retterath, PE

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

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**
Eagan, MN - Thursday, February 28, 2019



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Learning Objectives

You'll be able to:

Plan for structured parking, considering site conditions and space needs.

Comply with building codes and ADA accessibility requirements.

Discuss structural systems, including cast-in-place, post-tensioned, as well as precast, prestressed.

Design for durability, using concrete admixtures, sealants and coatings.

Get tips on parking structure maintenance, repair and restoration.



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Understand functional design, including parking geometrics and circulation systems

Get tips on designing for durability

Examine passive security and lighting

Learn about accessible parking design

Explore structural systems

Discuss maintenance, restoration and repair

Review case studies

Continuing Education Credits

Professional Engineers

6.5 HSW PDHs

Architects

6.5 HSW PDHs

6.5 AIA HSW Learning Units

Contractors

Non-Credit Continuing Ed.



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Faculty

Scott R. Froemming, PE *Managing Principal of the Minneapolis office of Walker Consultants*
Mr. Froemming is the managing principal of the Minneapolis office of Walker Consultants. He is a professional engineer, registered in Minnesota, Nebraska, South Dakota, Wisconsin, and California. Mr. Froemming has over 30 years’ experience as a structural engineer, participated in the study/design of over 500 parking facilities, and has 20 years of parking design and planning experience in the transportation/mobility industry. He has affiliations with the International Parking Institute, the Minnesota Concrete Council, the Minnesota Chief Engineers Guild, the American Consulting Engineers Council and the American Society of Civil Engineers.

Carl L. Schneeman, PE *Director of Operations of the Minneapolis office of Walker Consultants*
Mr. Schneeman is the director of operations in Walker’s Minneapolis office, and he is registered in Minnesota. He is responsible for project management, structural and parking design, quality reviews, specification development and contract document coordination. Mr. Schneeman also manages and directs facility restoration projects, field surveys and testing, and he develops designs for rehabilitation and restoration of structures, and excels in construction administration of projects. With Walker, he has led many successful new design and restoration projects ranging in size from under \$100,000 to over 40 million dollars in construction cost. Mr. Schneeman has affiliations with the American Concrete Institute, the American Society of Civil Engineers (ASCE), the Minnesota Association of Parking Professionals and more.

Michael H. Retterath, PE *Director of Restoration of the Minneapolis office of Walker Consultants*
Mr. Retterath is the director of restoration at Walker Consultant’s Minneapolis office and is registered in the state of Minnesota. He is responsible for restoration project management, structural and waterproofing design, quality reviews, specification development and contract document coordination. His extensive background in building assessment, emergency response, structural design, testing and construction lends to insightful contributions on projects. With Walker, he has led many successful restoration projects including water intrusion, fire damage, structural failures, corrosion damage, and general building maintenance. He has affiliations with the Minnesota Chapter of the International Concrete Repair Institute, Saint Paul BOMA, the American Society of Civil Engineers (ASCE), and more.

Seminar Information

Holiday Inn Airport SE-Mall Area
2700 Pilot Knob Road
Eagan, MN 55121
(651) 454-3434

Tuition
\$279 for individual registration
\$259 for three or more registrants from the same company at the same time.
Included with your registration: Complimentary continental breakfast and printed seminar manual.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
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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 6.5 HSW PDHs/ continuing education hours to professional engineers and architects in all states. Educators and courses are not subject to preapproval in Minnesota.

This seminar is approved by the American Institute of Architects for 6.5 HSW Leaning Units (Sponsor 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 (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education an approved Florida architect continuing education provider and is deemed an approved continuing education sponsor for New York architects.

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

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**
- **Portland Cement and Masonry**
Thurs., Jan. 17, 2019, 11:00 AM - 1:00 PM CST
 - **Fiber-Reinforced Composites**
Thurs., Jan. 17, 2019, 1:30 - 3:30 PM CST
 - **Fiber-Reinforced Polymer (FRP) Composites Reinforcement**
Fri., Jan. 18, 2019, 11:00 AM - 1:00 PM CST
 - **Overview of Sandwich Materials and Structures**
Fri., Jan. 18, 2019, 1:30 - 3:30 PM CST

For more information visit:
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An audio recording of this seminar is available for \$289. Allow four 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

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() 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 self-study package for **\$289.00**.

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