

Agenda

Presented by Bradly F. Navarro, Diego F. Romero, and Eric Haggett

Planning for Structured Parking

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

Functional Design

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

Building Codes

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

Accessible Parking Design

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

Passive Security, Lighting and Other Design Elements

Open Q&A and Case Studies/Examples

Structural Systems

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

Designing for Durability

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

Maintenance, Restoration, and Repair

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

Design for Adaptive Use

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

Open Q&A and Case Studies/Examples

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Parking Structure Design, Construction and Maintenance

Live, Interactive Webinar - Tuesday, August 16, 2022

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PO Box 278
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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.



HalfMoon Education Live Webinars

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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 PDHs

Architects
6.5 HSW CE Hours
6.5 AIA LU | HSW

International Code Council
Pending



Faculty

Bradley F. Navarro, PE
Vice President and the Managing Principal of Walker Consultants (Chicago)
Mr. Navarro has 22 years of experience in parking planning, design, and consulting, and is the Managing Principal of Walker’s Chicago offices. He has consulted on hundreds of parking-related projects, lending his expertise to site selection, engineering, building code analysis, durability design, and facility maintenance and restoration. In addition, he is recognized as a leading parking functional designer in the industry and services 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 is a recipient of the National Parking Association’s 40 Under 40 Award.

Diego F. Romero, PE, SE, PhD
Principal and the Director of Building Envelope, Forensics & Restoration of 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 evaluation of 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 vehicle 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 licensed structural engineer in Illinois, and a licensed professional engineer in Illinois and Texas.

Eric Haggett, LEED Green Associate *Director of Planning (Chicago)*
Mr. Haggett is a Director of Planning for Walker Consultants and has been in the parking industry for the past 14 years. While based in Chicago, Mr. Haggett works with public and private sector clients throughout the country, primarily focusing on financial feasibility and market analyses, operations and management consulting, and planning engagements. He is an active member of the International Parking & Mobility Institute, serving in several volunteer positions over the years. Mr. Haggett received his bachelor of business administration degree in Finance and Economics from Ohio University, is a certified Parksmart Advisor and is a regular instructor for Parksmart Advisor certification classes.

Added Value: Enhance your learning - a recording of this webinar will be available for attendees to stream online for two weeks after the program date.
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Log into Webinar 8:00 - 8:30 am CDT	Break 12:00 - 1:00 pm CDT
Morning Session 8:30 am - 12:00 pm CDT	Afternoon Session 1:00 - 4:30 pm CDT

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Additional Learning

Highway Bridge Design, Evaluation, Inspection and Rehabilitation
- Mon, July 25, 2022 | 8:30 am - 12:15 pm CDT
- Tues, July 26, 2022 | 8:30 am - 12:15 pm CDT

Designing for Accessibility under ADA Standards and IBC
- Wed, July 27, 2022 | 8:30 am - 12:15 pm CDT
- Thurs, July 28, 2022 | 8:30 am - 12:15 pm CDT

Pavement Design, Construction and Maintenance
- Wed, July 27, 2022 | 10:00 am - 1:10 pm CDT
- Thurs, July 28, 2022 | 10:00 am - 1:40 pm CDT

Designing Accessible Pedestrian Facilities under ADA, IBC and PROWAG
- Wed, Aug 3, 2022 | 8:30 - 11:45 am CDT
- Thurs, Aug 4, 2022 | 8:30 am - 12:15 pm CDT

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Registration

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