

HalfMoon Education Live Continuing Education Webinars

# Parking Structure Maintenance, Assessment and Repair

Online - Thursday, June 22, 2023 | 9:00 am - 4:30 pm CDT

**Credits:**

Professional Engineers: 6.5 PDHs

Architects: 6.5 HSW CE Hours      AIA: 6.5 LU|HSW

International Code Council: .65 CEUs (Building)

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## Parking Facility Types and Components

Overview of parking facility types and components

- Parking lots
- Parking structures
- Mechanical and automated facilities

Structural integrity v. service ability aesthetics

## Commonly Observed Deterioration, Causes, and Repairs

Concrete - scaling (freeze-thaw), delamination/spalling (corrosion-induced), alkali-silica reaction, abrasion, cracking

Steel - corrosion, coatings, fatigue

Asphalt - freeze-thaw, overloading, alligatoring, cracking, rutting, shoving, slippage, subgrade issues

Waterproofing systems - joint sealants, membranes, and expansion joint sealant systems

Plumbing - blockage, freezing, ice-damming, corrosion, impact, grates, trench drains

Lighting and electrical systems

Elevators

Miscellaneous and aesthetic items -

facades, landscaping, fencing/screens

## Reviews, Inspections, Routine Maintenance, Planning for Repairs

Routine maintenance

- Schedule, cost, resources

Reviews and inspections

- In-house reviews, equipment inspections, periodic engineering condition assessments

Planning for repairs

- Prioritization, budgeting, scheduling/phasing, safety during repair programs

The impact of deferred maintenance

## Upgrades and Designing for Durability

Common upgrades

- Painting, lighting, signage, waterproofing systems, elevator lobbies, stairwells, bicycle facilities, electric vehicle charging stations

Durability design for new construction

- Floors and frame, drainage, low permeability concrete, concrete cover over reinforcement, air entrainment, proper curing, concrete admixtures

## Presented by

### Rob McConnell PE, SE, LEED Green Associate

*Vice President, Parking Solutions*

Mr. McConnell's parking design and consulting experience encompasses nearly 30 years of work with airports, government, military, transit, higher education, resort, healthcare, and corporate clients. He is a member of the National Parking Association's Parking Consultants Council and a founding member of ASCE's Structural Engineering Institute. He is well-versed in precast concrete, cast-in-place concrete, and steel construction. Mr. McConnell's experience includes numerous restorations, parking study, and programming projects. Several of his projects have received LEED certification, and he is an accredited GBCI Parksmart Advisor.

## Tuition

**\$319** for individual registration

**\$289** for two or more registrants from the same company at the same time.

**Included with your registration:** *PDF seminar manual.*

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Recordings of this webinar are available for purchase. See details online 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.

## Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers and 6.5 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.5 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

## On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request: 6.5 HSW LUs (AIA)

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