

Agenda

Presented by
Kyle Pawlak, P.E., Kristen Navaid, R.A., and Sonia Surlej, R.A., NCARB

Moisture In (and Around) Buildings

- Sources of interior moisture
- Air sources and movement within buildings
- Moisture sources and movement within buildings
- Effects of air and moisture movement in buildings
 - Mold
 - Energy loss
 - Higher operating expenses
 - Damage to building systems and materials
 - Reduced occupant health, safety and comfort

Guidance from Codes, Standards and Environmental Protection Agency (EPA)

- International Building Code (IBC)
- International Residential Code (IRC)
- US EPA Moisture Control Guidance

Designing Moisture-Resistant Foundations

- Designing for site drainage
- Grading sites to drain water from foundations
- Examining the effects of insulation on foundation moisture
- Using foundation drainage systems

Designing and Constructing Moisture-Resistant Wall Systems

- Air, moisture and vapor barriers
- Exterior cladding systems
- Promoting drainage
- Controlling moisture at base of wall
- Understanding the effects of doors, windows and curtain walls
- Moisture-proofing wall penetrations

Designing and Constructing Moisture-Resistant Roofing Systems

- Evaluating roof coverings
- Using steep-slope, low-slope and flat roof systems
- Roof system as air and vapor barrier
- Examining roof/wall connections
- Water management

Plaza Waterproofing

- System types
- Installation
- Overburden and setting bed considerations
- Code considerations

Choose the way you want to learn!
This program will be presented simultaneously live, in-person and live online! Move from in-person to online anytime!

Moisture Control in Buildings:
Designing, Constructing and Remodeling for Wet Weather
Lombard, IL and Online - Friday, November 5, 2021

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Learning Objectives

You'll be able to:

- Identify** sources of moisture in buildings, and consider the effects of air and moisture movement.
- Define** the effects of excess moisture in buildings, including mold, energy loss, damage to building components, and reduced occupant health.
- Review** moisture control guidance in the IBC and IRC, and explore with US EPA moisture control guidance.
- Design** moisture-resistant foundations that drain water away from buildings.
- Design** and construct wall systems with appropriate air, moisture and vapor barriers.
- Design** and **construct** moisture-resistant roofing systems.



Live, In-Person Seminar and Live Webinar

Moisture Control in Buildings:

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- Identify** sources of interior moisture in buildings
- Define** air, moisture and vapor barriers
- Determine** the effects of air and moisture movement
- Explore** moisture-resistant design for foundations, walls and roofs
- Comply** with codes and standards that address moisture control
- Consider** the effect of connections and penetrations in moisture management

Continuing Education Credits

- | | |
|---|--|
| Professional Engineers
6.5 PDHs | AIA
6.5 LU HSW |
| Architects
6.5 HSW CE Hours | International Code Council
.65 CEUs (Building) |



Faculty

Kyle Pawlak, P.E. *Restoration Consultant at Walker Consultants – Indiana Office*
Mr. Pawlak is a restoration consultant in the Indianapolis office of Walker Consultants. He is responsible for the assessment and restoration of existing structures across several markets including private, university, airport, and healthcare throughout Indiana, Ohio, Kentucky, and Tennessee. Mr. Pawlak has experience in building envelope consulting for new construction during design and construction as well as the investigation and restoration of existing buildings including building facades, storefronts, and roofing systems.

Kristen Navaid, R.A. *Restoration Consultant at Walker Consultants – Chicago Office*
Ms. Navaid is a restoration consultant in the Chicago office of Walker Consultants. With an architectural background, she provides specialized assistance on building envelope projects, as well as parking facility restoration projects. As a restoration consultant and licensed architect at Walker, her responsibilities include managing facade repair and roofing replacement projects across all market segments, performing condition assessments and site investigations, and the delivery of a project from conception to the development of construction documents and on through construction. Ms. Navaid has nearly 15 years of experience in building envelope consulting and restoration.

Sonia Surlej, R.A., NCARB *Building Envelope Consultant at Walker Consultants – Chicago Office*
Ms. Surlej, R.A., NCARB is a building envelope consultant in the Chicago office of Walker Consultants. She has been in the building envelope and restoration industry for 13 years. In that time, she has completed a wide variety of building envelope consulting projects most notably the terra cotta restoration of The Bridgeview Bank Uptown in Chicago, and building envelope consulting services for new construction of The Corners in Brookfield, Wisconsin. Ms. Surlej can take her foundation in historic preservation and forensic building failure and apply that knowledge to new construction. In recent years, she has teamed up with general contractors to review construction documents and identify and address problems, as well as improve the quality of the overall building envelope.

Seminar/Webinar Information

Hyatt Place Chicago - Lombard/Oak Brook
2340 South Fountain Square Drive
Lombard, IL 60148
(630) 932-6501

Webinar Information:
Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar.

For system requirements, please visit the FAQ section of our website, or visit www.gotowebinar.com.

Registration
8:00 - 8:30 am CDT

Morning Session
8:30 am - 12:15 pm CDT

Lunch (on your own)
12:15 - 1:15 pm CDT

Afternoon Session
1:15 - 4:30 pm CDT

Continuing Education Credit Information
This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects licensed in all states.

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 LU|HSW (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).

In-person 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.

Completion certificates will be awarded to participants who complete this event online, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

COVID Health Considerations: In accordance with guidance from the Centers for Disease Control and Prevention (CDC), only those who are fully vaccinated should gather indoors without masks. Those not yet fully vaccinated should continue social distancing and wearing facemasks indoors. Please review CDC guidance for recent developments.

Additional Webinars

How to Design Building Utility Systems to Resist Flood Damage
- Mon, Oct 4, 2021 | 11:30 am - 4:00 pm CDT

International Building Code 2021
- Thurs, Oct 14, 2021 | 8:00 am - 4:00 pm CDT

Advanced Healthy HVAC: Balancing First Cost, Occupant Comfort, and Safety
- Fri, Oct 15, 2021 | 8:30 am - 5:00 pm CDT

Parking Structure Design, Construction, and Maintenance
- Fri, Oct 15, 2021 | 8:00 am - 3:30 pm CDT

AIA Contract Document Workshop
- Mon, Oct 18, 2021 | 8:30 am - 4:30 pm CDT

Handling Ethical Issues in Construction Contracting
- Mon, Oct 18, 2021 | 10:00 - 11:00 am CDT

For more information and other online learning opportunities visit: www.halfmoonseminars.org

Registration

How to Register

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Tuition

Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$239.00** each

() **Seminar:** I will be attending the presentation, live, in person, in Lombard, IL
No walk-in registrations will be accepted.
☐ **I have read and accepted the COVID Health Considerations on the previous panel**

() **Webinar:** I will be attending the presentation live, online

() **I am not attending.** Please send me the seminar recording:
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