

Agenda

Presented by James D'Aloisio, P.E., LEED AP

The Premise of Building Safety

- Recent events
- Industry guidelines and standard practice
 - Design - codes and reviews
 - Construction - codes, enforcement, special inspections
 - Service life - code changes, deterioration, other changes
 - Inspections and condition reviews

Illustrative Failures

- | | |
|-------------------|-----------------------|
| Infamous failures | Lesser-known failures |
| Disasters averted | |

Considerations for Structural Building Reviews

- | | |
|--|-----------------------------|
| Physical condition – two types of distress | Known cautionary conditions |
| Environmental exposure | Loading - prior and future |
| Load paths | Design quality confidence |
| Importance and occupancy | |
| Construction quality confidence | Potential failure states |
| Concealed defect potential | |
| Significance of considered assembly | |
| Intuition / unusual conditions | |

Special Considerations

- | | |
|---------------------|------------------------|
| Abandoned buildings | Adjacent structures |
| Parking garages | Residential structures |

Types of Reviews

- Levels of reviews
- Structural condition review reports
- Conveying results and concerns
- “Is it safe?” “Structurally stable?”
- Acknowledging the unknowns

Managing Design Professional Risk

- Professional liability
- Review purpose, scope, and expectations
- Good Samaritan laws
- Unheeded recommendations

Review Scenarios

- | | |
|--------------------|------------------------|
| Bystander | Engaged |
| Determined unsafe | Determined safe |
| Future performance | Questions & discussion |

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Structural Condition Reviews and Structural Failures in New York

Live, Interactive Webinar - Friday, March 15, 2024

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Learning Objectives

You'll be able to:

Review industry guidelines and standard practices that promote building safety.

Learn from past building failures (and near-failures).

Identify considerations for structural building reviews, including a building's physical condition, environmental exposure, known cautionary conditions and current and anticipated loading.

Explore the contents of structural condition review reports.

HalfMoon Education Live Webinars

Structural Condition Reviews and Structural Failures in New York

Live, Interactive Webinar - Friday, March 15, 2024



Examine structural condition reviews and structural failures

Review illustrative infamous and lesser-known failures, and learn how some disasters were averted

Discuss considerations for structural building reviews including physical condition and loads

Explore special considerations, including abandoned buildings and residential structures

Discuss levels of structural condition reviews and convey results to stakeholders

Learn to manage design professional risk

Continuing Education Credits

Professional Engineers
7.5 PDHs

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7.5 AIA LU|HSW

International Code Council
.75 CEUs (Building)

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Webinar Information

Log into Webinar 8:00 - 8:30 am EST	Break 12:55 am - 1:25 pm EST
Morning Session 8:30 - 12:55 am EST	Afternoon Session 1:25 - 4:50 pm EST

Tuition
\$319 for individual registration.
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Faculty



James D'Aloisio, P.E., LEED AP
Principal with Klepper, Hahn & Hyatt in Syracuse

Mr. D'Aloisio is a principal with Klepper, Hahn & Hyatt, a structural engineering, landscape architecture, and building envelope services firm in East Syracuse, New York. A graduate of Rensselaer Polytechnic Institute, Mr. D'Aloisio is a registered professional engineer in New York and Massachusetts. He is a member and past president (1997-1998) of the American Society of Civil Engineers (ASCE) Syracuse Section, and a member of the American Institute of Steel Construction (AISC), the American Concrete Institute (ACI), the National Society of Professional Engineers (NSPE), and the Structural Engineers Association of New York State (SEAoNY). Mr. D'Aloisio is a member of ASCE/SEI's Frost-Protected Shallow Foundations Committee, the Structural Condition Assessment of Existing Buildings Committee, and the Sustainability Committee. Mr. D'Aloisio received the Order of the Engineer at Syracuse University in 1997. His 30-plus years' experience as a consulting structural engineer has primarily involved the design of new building structures, additions, and modifications, and analyses, assessments, and investigations of structures and facades. Mr. D'Aloisio has performed structural condition reviews of over 15 million square feet of buildings and has performed over 150 structural forensic investigations. He has presented over 300 times.

Credit Information

This webinar is open to the public and is designed to qualify for 7.5 PDHs for professional engineers and 7.5 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 License No: CEA362), 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 7.5 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .75 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).

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Additional Learning

- Evaluating and Maintaining Structural Integrity of Buildings in the Northeast**
- Friday, February 9, 2024 | 9:00 am - 4:00 pm EST
- Natural Ventilation Principles and Techniques**
- Monday, February 12, 2024 | 10:00 am - 5:00 pm EST
- Basement Design and Construction: Adding Economical Below-Grade Living Space**
- Tuesday, February 13, 2024 | 9:30 am - 5:20 pm EST
- Designing and Constructing with Steel Joists**
- Wednesday, February 14, 2024 | 10:00 am - 5:00 pm EST
- Drone Applications for Engineers**
- Thursday, February 15, 2024 | 10:30 am - 5:50 pm EST
- How to Design for Snow and Ice Loads**
- Thursday, February 15, 2024 | 2:00 - 5:00 pm EST
- 2021 International Residential Code: Energy Conservation**
- Tuesday, February 20, 2024 | 1:00 - 5:30 pm EST
- Roadmap to Ethical Issues in Construction: A Primer for Design Professionals**
- Wednesday, February 21, 2024 | 12:00 - 2:00 pm EST
- Learn about Remote Pilot Training and Certification**
- Tuesday, February 27, 2024 | 10:00 am - 2:45 pm EST
- Wednesday, February 28, 2024 | 10:00 am - 2:45 pm EST
- Fire Protection for Special Occupancies: Health Care Facilities**
- Wednesday, February 28, 2024 | 10:00 am - 1:15 pm EST
- Fire Protection for Special Occupancies: Industrial Facilities**
- Wednesday, February 28, 2024 | 2:00 - 5:15 pm EST
- Pumping and Piping Systems**
- Thursday, February 29, 2024 | 12:00 - 3:15 pm
- Friday, March 1, 2024 | 12:00 - 3:15 pm EST
- International Residential Code 2021**
- Friday, March 1, 2024 | 9:30 am - 6:00 pm EST
- 2021 International Residential Code: Mechanical Systems**
- Tuesday, March 5, 2024 | 1:00 - 5:30 pm EST
- Residential Energy Efficiency Code Compliance and Stretch Code Requirements**
- Thursday, March 7, 2024 | 9:30 am - 5:30 pm EST

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