

Agenda

Overview of Special Inspections

K. Egan

General program guidelines
Special inspector qualifications
Testing and inspection agency accreditation
Forms, schedules and agreements
Pre-construction meeting
Report distribution

Soil and Foundation Inspections

M. Silvestre

Existing soil conditions
Site preparation
Shallow foundations
Deep foundations

Concrete and Masonry Construction Inspections

C. Moulder

Concrete reinforcement, placement, testing and inspection
Curing concrete, hot- and cold-weather concrete
Prestressed and precast concrete
Masonry inspection frequency and material test methods
Mortar, grout, unit placement and reinforcement

Steel Inspections

C. Moulder

Shop fabrication
Welds
Bolted connections
Pre-engineered metal buildings

Wood, Cold-Formed Steel, Wind and Seismic Design

C. Moulder

AWC and AISI publication references in Code
Wood and CFS material standards, fasteners and connections
Lateral framing inspection practices
Seismic resistance/isolation systems

Material Standards and Load Tests

C. Moulder

Design strength of materials and alternative test procedures
In-situ load tests
Pre-construction load tests

Ethics, Non-Conformances and Final Reports

M. Silvestre

Inspector authority, conflicts and “soft skills”
Discrepancy documentation, tracking and resolution
Final report, required documentation and distribution

Special Inspections under the International Building Code Chapter 17

Live, Interactive Webinar - Tuesday, September 29, 2020

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PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Receive an overview of the special inspection process, including general program guidelines, special inspector qualifications, and report distribution.

Discuss soil and foundation inspections, including considerations for shallow and deep foundations.

Discuss concrete reinforcement, placement, testing, and inspection.

Explain steel inspections, including shop fabrication, welds, and bolted connections.

Discuss design strengths of materials and in-situ load tests.

Explain discrepancy documentation, tracking, and resolution.



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HalfMoon Education Online Learning Special Inspections under the International Building Code Chapter 17

Live, Interactive Webinar - Tuesday, September 29, 2020



Review special inspections program guidelines and the inspection process

Understand soil and foundation inspections

Discuss concrete and masonry construction inspections

Explain materials standards and load tests

Explore ethics, non-conformances, and final reports

Continuing Education Credits

Professional Engineers

6.0 PDHs

Architects

6.0 HSW CE Hours

AIA

6.0 LU|HSW

International Code Council

.6 CEUs (Building)



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Faculty

Kasha Egan, PE, SE, CWI, PTI, ICCMSI
Associate, Wallace Engineering Structural Consultants, Inc.

Ms. Egan is a structural engineer and is an associate at Wallace Engineering in Oklahoma City. She received her bachelor of science degree in Architectural Engineering from the University of Oklahoma and her master of science degree in Civil Engineering from Drexel University. Ms. Egan has served as the project engineer for a variety of building types including educational facilities, laboratories and medical facilities, commercial and retail buildings, and maintenance facilities. She is a member of Oklahoma Structural Engineers Association, Urban Land Institute and American Welding Society. Recently, Ms. Egan has been educating clients and building owners, while engaging local municipalities, on the importance of special inspections and their effect on the construction process and the end product, the building. She is an AWS Certified Welding Inspector, PTI Level 1 Unbonded PT Inspector, ACI Technician Grade I, and an ICC Certified Master Special Inspector for Steel and Bolting, Structural Welding, Pre-stressed Concrete, Reinforced Concrete and Structural Masonry. Ms. Egan has been a licensed professional engineer since 2014.

Marco V. Vicente Silvestre, P.G., P.E.
Regional Vice President, Building & Earth Science, Inc.

Mr. Silvestre holds a professional engineer (P.E.) license in both Oklahoma and Arkansas, and a professional geologist (P.G.) license in Arkansas. Originally from The Netherlands, he attended the Mining and Petroleum Engineering Faculty at Delft University of Technology, majoring in Engineering Geology. As part of his Master’s thesis, Mr. Silvestre conducted an in-depth laboratory study on geometrical and hydro-mechanical characterization of discontinuities for

hydropower tunnel and dam projects at the National Laboratory of Civil Engineering in Portugal. The thesis received the Ingeokring Student Award for the best master’s thesis in the field of Engineering Geology.

As one of the firm’s principals, Mr. Silvestre provides 21 years of local experience with a significant background in geotechnical consulting, construction materials testing and special inspections per IBC for the Oklahoma and Arkansas branch offices, and the DFW Metroplex satellite operation in Texas. His day-to-day responsibilities involve leading and directing branch managers toward implementing corporate safety policies, providing professional engineering oversight, mentoring and developing leadership, and implementing the company’s vision, mission and overall direction.

Christopher Moulder
Technical Director at Pie Consulting and Engineering

Mr. Moulder is a licensed professional engineer in seven states, and he has over 20 years’ experience in structural engineering. He is proficient in the design, analysis and rehabilitation of residential and commercial building systems. Having done both new construction and rehabilitation projects, Mr. Moulder has developed a portfolio of knowledge of what works and does not work for a structure’s performance. Currently, Mr. Moulder serves as the technical director for Pie Consulting & Engineering and works out of their Texas offices in The Colony. Mr. Moulder has been with Pie since 2008, and he is a veteran of the United State Marine Corps.

Webinar Information

Log into Webinar 8:00 - 8:30 am CDT	Break 11:45 am - 12:45 pm CDT
Morning Session 8:30 - 11:45 am CDT	Afternoon Session 12:45 - 4:00 pm CDT

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Continuing Education Credit Information

This webinar offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states.

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The American Institute of Architects Continuing Education System has approved this course for 6.0 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .6 CEUs in the specialty area of Building (Preferred Provider No. 1232).

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

Additional Learning

International Plumbing Code
- Fri., Sept. 25, 2020 | 8:30 am - 5:00 pm CDT

2018 International Residential Code: Structural Construction
- Fri., Sept. 25, 2020 | 11:00 am – 3:30 pm CDT

Parking Structure Design, Construction and Maintenance
- Tues., Sept. 29, 2020 | 11:00 am - 3:00 pm CDT
- Wed., Sept. 30, 2020 | 11:00 am - 2:30 pm CDT

Project Management Fundamentals for Engineers
- Tues., Sept. 29, 2020 | 8:30 am - 4:00 pm CDT

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Registration

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How to Register Online: www.halfmoonseminars.org Phone: 715-835-5900 Fax: 715-835-6066 Code: Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278 Complete the entire form. Attach duplicates if necessary.	Registrant Information Name: _____ Company/Firm: _____ Address: _____ City:_____ State: _____ Zip:_____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. () I need special accommodations. Please contact me.
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