

# Agenda

## Overview of Special Inspections

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

C. Moulder

## Soil and Foundation Inspections

Existing soil conditions      Site preparation  
Shallow foundations      Deep foundations

C. Moulder

## Concrete and Masonry Construction Inspections

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

C. Moulder

## Steel Inspections

Shop fabrication      Welds  
Bolted connections      Pre-engineered metal buildings

C. Moulder

## Wood, Cold-Formed Steel, Wind and Seismic Design

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

C. Moulder

## Exterior Insulation/Finishes and

### Fire Resistance/Smoke Control

Exterior insulation and finish systems  
Fire resistant materials and sprayed fire-resistive material  
Smoke control

M. Fiebig

## Material Standards and Load Tests

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

C. Moulder

## Ethics, Non-Conformances and Final Reports

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

M. Fiebig

**Special Inspections under the  
International Building Code Chapter 17**  
San Antonio, TX - Tuesday, November 13, 2018



Halfmoon Education Inc.  
PO Box 278  
Altoona, WI 54720-0278

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## Learning Objectives

### You'll be able to:

**Identify** the qualifications needed to be a special inspector.

**Explore** requirements for steel fabrication, bolting and welding.

**Discuss** inspection and testing of concrete and masonry.

**Review** framing inspection practices for wood and cold-formed steel.

**Examine** requirements for fire-resistant materials.

**Study** material standards and review load testing procedures.



# Special Inspections under the International Building Code Chapter 17

San Antonio, TX - Tuesday, November 13, 2018



**Identify** general program guidelines and special inspector qualifications

**Study** key elements of soil and foundation inspections

**Review** concrete reinforcement, placement, testing, and inspection

**Understand** wood and CFS materials standards, and lateral framing inspection practices

**Analyze** exterior insulation and finish systems

### Continuing Education Credits

**Professional Engineers**  
7.0 PDHs (1.0 Ethics Hour)

**Contractors**  
Non-Credit Continuing Ed.

**Architects**  
7.0 HSW CEPHS/CE Hours  
7.0 AIA HSW Learning Units

**International Code Council**  
.7 CEUs (Building)



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# Faculty

## Christopher Moulder, PE, Technical Director at Pie Consulting and Engineering

Mr. Moulder is a licensed professional engineer in 7 states and 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.

## Michael Fiebig, RA, AIA, NCARB, LEED GA, CFPS, SBSA, Inc

Mr. Fiebig holds a Bachelor of Environmental Design degree from the University of Colorado in Boulder, and a Master of Architecture degree from the University of Colorado in Denver. He is a licensed architect in several states, and he provides both consulting and design services to clients throughout the country. Mr. Fiebig is an active member of the American Institute of Architects, as well as an NCARB certificate holder. He is a LEED green associate, as well as a certified fire protection specialist, credentialed through the National Fire Protection Association. As a forensic architect, Mr. Fiebig provides analysis of architectural standard of care in design and construction projects, with special emphasis on multi-family residential projects. He performs cause and origin analyses of building system installations and failures, including roofing systems, window and door systems, exterior wall cladding systems, waterproofing,

and foundation systems, with a specialization in passive fire-resistive assemblies and active fire-protection systems. Mr. Fiebig provides premises liability analysis regarding slip/trip and fall accidents and accessibility code compliance, and he provides maintenance and inspection procedure analysis with an emphasis on NFPA 25: *Standard for the Inspection, Testing, and Maintenance of Water-based Fire Protection Systems*. As well, he performs damage assessments on existing facilities related to storms, accidents, fire, and natural disasters. As a design architect, Mr. Fiebig provides traditional design services for residential and light commercial buildings, and he provides code consulting for clients, specializing in life/safety, egress, and fire protection code requirements to assist clients in properly designing and detailing these critical elements of design and construction. He also provides traditional services during construction including construction observations and special inspections when required by the jurisdiction of authority. Mr. Fiebig's experience includes several trial and deposition testimonies regarding design, construction, and the built environment, as well as mediation and arbitration support for litigation purposes. Mr. Fiebig holds active memberships in many professional organizations including AIA, NCARB, NFPA, USGBC, NICET, and others. He is a published writer in *Common Ground*, the national magazine for the Community Associations Institute.

# Seminar Information

## Norris Conference Center

618 NW Loop 410 Ste 207  
San Antonio, TX 78216  
(210) 738-0040

## Tuition

**\$279** for individual registration

**\$259** for Three or more registrants from the same company at the same time.

*Each registration includes a complimentary continental breakfast and printed seminar manual. Registration does not include a copy of the Registration Code itself.*

**Receive a reduced tuition rate of \$101** by registering to be our on-site coordinator for the day. For availability and job description, please visit [www.halfmoonseminars.org](http://www.halfmoonseminars.org).

## How to Register

- Visit us online at [www.halfmoonseminars.org](http://www.halfmoonseminars.org)
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

**Cancellations:** Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the CD/manual package. You may also send another person to take your place.

## Continuing Education Credit Information

This seminar is open to the public and offers 7.0 PDHs, including 1.0 ethics hour, to professional engineers and 7.0 HSW CEPHs/continuing education hours to architects in all states, except Florida architects. Educators and courses are not subject to preapproval in Texas.

The American Institute of Architects has approved this event for 7.0 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey, New York (NYSSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved architect continuing education sponsor in New York.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building.

This seminar offers contractors a non-credit continuing education opportunity. It has not been submitted to any state contractor licensing entity for continuing education approval.

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.

# Additional Learning

## Webinar Series

### Stormwater Management Systems

- **Basics of Stormwater Regulations and Requirements, Including New EPA Regulations**

Thurs., Oct. 4, 2018, 11:00 AM - 12:00 PM CDT

- **Working with the Regulator**

Thurs., Oct. 4, 2018, 12:30 - 2:00 PM CDT

- **Site Planning and Choosing Best Management Practices**

Fri., Oct. 5, 2018, 11:00 AM - 12:00 PM CDT

- **Long-term Stormwater Management Practices**

Fri., Oct. 5, 2018, 12:30 - 2:00 PM CDT

For more information visit:  
[www.halfmoonseminars.org/webinars/](http://www.halfmoonseminars.org/webinars/)

## Can't Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

# Registration

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How to Register	
<b>Online:</b> <a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a>	
<b>Phone:</b> 715-835-5900	
<b>Fax:</b> 715-835-6066	
<b>Mail:</b> HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
<b>Complete the entire form.</b> Attach duplicates if necessary.	
<b>Registrant Information</b> Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____	
<b>Additional Registrants:</b> 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.	

## Tuition

( ) **I will be attending the live seminar.** Single Registrant - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

( ) **I am not attending.** Please send me the CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

**Checks:** Make payable to HalfMoon Education Inc.

**Credit Card:** *Mastercard, Visa, American Express, or Discover*

Credit Card Number: \_\_\_\_\_

Expiration Date: \_\_\_\_\_ CVV2 Code: \_\_\_\_\_

Cardholder Name: \_\_\_\_\_

Billing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Signature: \_\_\_\_\_

Email: \_\_\_\_\_