

Agenda

Presented by Vincent F. Fratinardo, P.E., S.E., RRC

Distinguishing between Construction Defects and Failures

- Defining defects
- Causes of defects: problems with design, materials and/or construction
- Defining failures
- Causes of failures: deterioration, unintended use, “Acts of God”

Examining Common Defects and Failures, Part I

- Analyzing defects and failures for methodology and causality
- Site selection and engineering
- Building design

Examining Common Defects and Failures, Part 2

- Foundation design and construction
- Design and construction of floors, walls and roofing
- Exploring defects and failures in mechanical and electrical systems

Adopting Practices that Reduce Defects and Failures

- Reviewing proposed use and preparing construction documents
- Complying with building codes and standards
- Choosing materials and construction techniques
 - Investigating new materials and construction techniques
- Monitoring construction
- Correcting problems before project completion
- Building commissioning, operation and maintenance

Using Construction Defect and Failure Investigations in Litigation

- Examining the nature of post-failure and defect conflicts and disputes
- Understanding the use of information in arbitration, litigation and mediation
- Presenting information as an expert witness
- Expert witness qualifications
- Offering testimony as an expert witness

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Preventing and Addressing Construction Defects and Failures
East Lansing, MI - Friday, February 21, 2020



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Learning Objectives

You’ll be able to:

Differentiate between construction defects and failures

Describe their common causes, including design problems, faulty materials, construction practices, unintended use, and deterioration.

Discuss common defects and failures in foundations, floors, walls, roofing, and mechanical and electrical systems.

Reduce construction defects and failures by understanding proposed use, preparing timely and accurate construction documents, complying with building codes, selecting quality materials, monitoring construction, correcting problems before construction completion, and participating in building commissioning.



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Understand the difference between construction defects and failures

Identify common defects and failures

Examine building codes and standards

Explore materials and construction techniques

Resolve disputes generated by defects and failures

Get tips on presenting evidence as an expert witness

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Vincent F. Fratinardo *P.E., S.E., RRC*
Mr. Fratinardo is a civil/structural engineer and roof consultant. His 20 years of experience includes civil and structural engineering analysis, design, construction administration, field investigation, and project management, and 13 years of experience specific to forensic engineering and the investigation and analysis of building damage and failures. Mr. Fratinardo has designed numerous new buildings, building additions, building renovations, and mechanical platforms and supports. He has designed and analyzed roof, wall and floor framing systems utilizing steel, concrete, masonry, and wood construction. Mr. Fratinardo has vast expertise in commercial, industrial, agricultural, municipal, educational and residential building damage investigations, including on-site investigations after 25 different tornado events, and Hurricanes Irene, Sandy, Matthew, Harvey, Irma, Maria and Florence. He has legal experience in depositions, arbitration hearings and trials. He has prepared and performed numerous continuing education presentations, including on an array of topics in forensic engineering, structural engineering and building codes for HalfMoon Education Inc., in multiple states since 2014. Mr. Fratinardo graduated from Michigan State University with a bachelor of science degree in Civil Engineering, and he also holds a master of engineering degree in Civil Engineering from Texas A&M University. He is a registered professional engineer in multiple states and a licensed structural engineer in Illinois.

Here’s what past attendees had to say about the program and presenter Vince Fratinardo:
“Excellent!” — Engineer
“Enjoyed presentation; good mix of technical & examples.” — Engineer
“I’ve attended a couple of Vince’s seminars and he delivers a well-thought presentation.” — Architect

Seminar Information

Marriott at University Place 300 Michigan Agricultural College Ave. East Lansing, MI 48823 (517) 337-4440	Registration 8:00 - 8:30 am Morning Session 8:30 am - 12:00 pm	Lunch (On your own) 12:00 - 1:00 pm Afternoon Session 1:00 - 4:30 pm
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\$289 for individual registration
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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 self-study package. You may also send another person to take your place.

Additional Learning

Webinar Series

Pumping and Piping Systems

- **Introduction to Pumps: Operation, Principles and Calculations**
Thurs., Feb. 6, 2020, 11:00 AM - 1:00 PM CST
- **Pumping and Piping Design Standards and Codes**
Thurs., Feb. 6, 2020, 1:30 - 2:30 PM CST
- **Piping System Components, Materials and Calculations**
Fri., Feb. 7, 2020, 11:00 AM - 1:00 PM CST
- **Handling Pump and Piping System Problems**
Fri., Feb. 7, 2020 , 1:30 - 2:30 PM CST

Pavement Design

- **Principles of Pavement Design**
Wed., Feb. 12, 2020, 11:00 AM - 12:00 PM CST
- **Flexible Pavement Design**
Wed., Feb. 12, 2020, 12:30 - 2:30 PM CST
- **Rigid Pavement Design**
Thurs., Feb. 13, 2020, 11:00 AM - 1:00 PM CST
- **Maintenance, Rehabilitation and Sustainability of Pavements**
Thurs., Feb. 13, 2020, 1:30 - 3:30 PM CST

Ethical Issues for Engineers

- **Resolving Disputes and Handling Ethical Issues in Government Projects**
Fri., Jan. 31, 2020, 12:00 - 1:00 PM CST
- **Complying with Rules of Professional Conduct**
Fri., Feb. 14, 2020, 12:00 - 1:00 PM CST


Foundations in Cold Regions

- **Introduction to Foundations in Cold Regions**
Thurs., Feb. 20, 2020, 11:00 AM - 12:30 PM CST
- **Shallow Foundation Design in Cold Regions**
Thurs., Feb. 20, 2020, 1:00 - 2:30 PM CST
- **Deep Foundation Design in Cold Regions**
Fri., Feb. 21, 2020, 11:00 AM - 12:30 PM CST
- **Foundation Construction in Cold Regions**
Fri., Feb. 21, 2020, 1:00 - 2:00 PM CST

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Registration

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