

Credit Information

Foundation Damage and Repair: Science, Materials and Techniques

This webinar offers 6.0 PDHs to professional engineers and 6.0 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 6.0 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, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Managing Construction Projects

This webinar offers 6.5 PDHs to professional engineers in most states and 6.5 continuing education hours to architects licensed in all states that accept non-HSW coursework.

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). This course does not qualify for New York engineers or architects.

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU | Elective (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 Administration (Preferred Provider No. 1232).

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

Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of each webinar are available for purchase. See course listing online for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit. Self-study packages do not qualify for AIA credit.

Live, Interactive Webinars

- Foundation Damage and Repair: Science, Materials and Techniques
- Managing Construction Projects

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PO Box 278
Altoona, WI 54720-0278



Live, Interactive Webinars

Foundation Damage and Repair: Science, Materials and Techniques

- Friday, September 10, 2021 | 9:30 am - 5:00 pm CDT

Managing Construction Projects

- Monday, September 20, 2021 | 8:30 am - 4:30 pm CDT

To register, view detailed presenter biographies,
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HalfMoon Education Online Learning **Live, Interactive Webinars**



Foundation Damage and Repair: Science, Materials and Techniques

Friday, September 10, 2021 | 9:30 am - 5:00 pm CDT

Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 HSW CE Hours
AIA: 6.0 LU | HSW International Code Council: .6 CEUs (Building)



Managing Construction Projects

Monday, September 20, 2021 | 8:30 am - 4:30 pm CDT

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 CE Hours (non-HSW)
AIA: 6.5 LU | Elective International Code Council: .65 CEUs (Administration)

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Foundation Damage and Repair: Science, Materials and Techniques

Friday, September 10, 2021 | 9:30 am - 5:00 pm CDT (incl. a 60-min break)

Tuition: \$289 per registrant, \$199 per registrant for three or more

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AIA: 6.0 LU|HSW International Code Council: .6 CEUs (Building)

Agenda

Science of Structures

- Superstructure vs substructure
- Typical loads on superstructure
 - Vertical loads (dead, live, snow, roof, etc.)
 - Lateral loads (wind, seismic, etc.)
- Load path to foundation system
- Typical load path on substructure
 - Vertical loads (dead)
 - Lateral loads (soil, hydrostatic, etc.)
- Load path to supporting soils
- Soils testing
 - Code requirements
 - Properties
 - Reporting

Foundation Design

- Foundation types
- Design using soil parameters
 - Prescriptive vs engineered design
 - Spread footing design
 - Deep foundation design
 - Retaining wall design

Assessing a Property

- Discussion of damages
 - Prong 1
 - Prong 2
 - Cause and effect
- Site observations
- Relative level survey
 - Types of equipment and tolerances
 - Performing a survey

Foundation Repair Methods

- Underpinning
 - Verification and proof tests
- Foundation repair
 - Issues
 - Repair details
 - Repaired conditions
- Secondary repairs

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Agenda

Overview

- Project delivery methods
 - Traditional (design-bid-build)
 - CM at risk
 - Turnkey (design-build, ppp)
- Project phases
 - Initiation
 - Planning
 - Execution
 - Monitoring and control
 - Closeout

Legal Considerations in Construction

- Basic principles
 - Nature of contracts
 - Terms and conditions
 - Defaults and remedies
- Key provisions
 - Project roles
 - Indemnification
 - Dispute resolution

Construction Program Management

- Definition
 - Project Management Institute
 - Construction Management Association of America
 - Tactical vs. strategic thinking
- Managing the triple constraints of project management
 - Cost
 - Schedule
 - Scope
- Managing the triple themes of program management
 - Governance
 - Stakeholder management
 - Benefit realization
- Program management process groups and knowledge areas
 - Cost
 - Schedule
 - Quality
 - Communication

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Faculty

Foundation Damage and Repair: Science, Materials and Techniques

Edward Fronapfel

MSCE, PE, D-IBFES, DFE, CBIE, CFCC, CBCP, EDI, PTI, NACHI, F.NAFE, F.ASCE

Mr. Fronapfel's experience in design, analysis and forensic review of the soil/structure interaction on hundreds of projects, and thousands of structures provides insightful, analytical and real world expertise. His education and experience includes geo-hydrology, hydrology, hydraulics, civil engineering, structural engineering and building systems including thermal protection, ventilation of confined spaces, waterproofing, roofing and cladding for residential, commercial, education, and industrial settings. He is licensed to practice engineering in 39 states and Puerto Rico. In addition to engineering, his background includes cost consulting, contract resolution, and project scheduling, consulting and construction project issues. Mr. Fronapfel has served for over 14 years as an adjunct professor at the University of Denver, Burns School of Real Estate and Construction Management teaching construction systems, LEED, mechanical-electrical-plumbing, construction estimating, and project scheduling. He has been qualified as an expert in these fields in over 80 trials in District and Federal Courts, providing over 600 depositions and hundreds of arbitrations. He has been engaged in thousands of cases including being used as an umpire and expert in mediations.

Managing Construction Projects

Joseph W. Delaney, PhD, P.E., PgMP, CCM, LEED AP

Dr. Delaney is the general manager of the construction management services group at Delaney CMS in Poplarville, Mississippi, and President of Delaney Parametric Design. He is the former president of C&S Design Build Inc., where he started the agency construction management business. At C&S, Dr. Delaney was responsible for more than \$1 billion in completed projects in the education, municipal, wastewater, airport, and private development sectors.

Dr. Delaney is a licensed professional engineer (New York and Mississippi), holds the Program Management Professional (PgMP®) credential, is a Certified Construction Manager (CCM®), and is a Leadership in Energy and Environmental Design (LEED®) Accredited Professional. Dr. Delaney received his Bachelor's, Master's, and PhD degrees in Civil Engineering from the State University of New York at Buffalo.

Dr. Delaney enjoys sharing his experience leading teams, and he has provided leadership training to senior management including his colleagues at the American Council of Engineering Companies (ACEC) Senior Executive Institute and at Fortune 500 companies, including Johnson & Johnson, Inc., and L3 Communications. Dr. Delaney was recently the keynote speaker at the Tri-State Diversity Summit where he shared Delaney CMS's (a New York State Certified Minority/Woman-Owned Business Enterprise - MWBE) vision for equality and empowerment.

Dr. Delaney is a faculty member and the program coordinator for the CM Department at the University of Southern Mississippi. He recently wrote a textbook titled *Construction Program Management* which was published by CRC Press. The textbook is used to teach undergraduate and graduate students and by practitioners to help them formulate a process-based approach for management of large projects and programs.

Additional Learning

Complying with NFPA 101 (2021): Life Safety Code
- Thurs, Sept 2, 2021 | 9:30 am - 5:30 pm CDT

Erosion and Sediment Control
- Thurs, Sept 9, 2021 | 9:00 am - 4:00 pm CDT

Engineered Lumber Design and Construction
- Fri, Sept 10, 2021 | 8:30 am - 4:20 pm CDT

Introduction to HEC-HMS Modeling
- Fri, Sept 10, 2021 | 8:30 am - 4:00 pm CDT

National Electrical Code 2020
- Mon, Sept 13, 2021 | 8:30 am - 5:00 pm CDT

For more information and other online learning opportunities visit:
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