

Agenda

Presented by Daniel P. Messmer, P.E., D. GE

Accommodating Multiple Purposes of Site Engineering

- Engineering for built elements
- Slope stabilization
- Stormwater management
- Landscape aesthetics
- Sustainability goals: minimizing disturbance and preserving natural features

Considering the Impact of Soils and Landforms

- Understanding the role of soils
- Soil characteristics, classification and engineering properties
- Identifying the underlying geological conditions
- Understanding the watershed
- Considering site topography: high points, low points and plane surfaces

Site Engineering for Stormwater Management and Erosion Control by using Best Management Practices (BMPs)

- Reviewing state and local regulations
- Drainage systems
- Sediment traps and basins
- Buffer zones
- Slope stabilization
- Establishing proper building material handling and storage
- Establishing equipment/vehicle fueling and maintenance practices

Earthwork Safety

- Weight of soil and excavation hazards
- Role of competent person
- Underground installations
- Water accumulation

Site Plans

- Site plan contents
- Soil investigation and considerations
- Surface water and groundwater considerations
- Excavation specifications and hauling
- Construction grade staking

Site Grading

- Grading for roads, sidewalks and paths
- Grading for stairs and ramps
- Grading for retaining walls
- Grading slopes

Practical Site Engineering: Science & Techniques

Live, Interactive Webinar - Tuesday, September 15, 2020

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PO Box 278
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Learning Objectives

You'll be able to:

Engineer construction sites for slope stabilization, stormwater management, and landscape aesthetics.

Consider the impact of soil characteristics and soil engineering properties.

Discuss procedures for ensuring earthwork safety.

Learn to improve site grading for roads, sidewalks and paths.

Develop site plans and manage site work with a focus on quality control.

Learn to manage stormwater and control erosion.



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Accommodate multiple purposes of site engineering

Consider the impact of soils and landforms

Manage stormwater and control erosion

Discuss existing roadway connections and onsite traffic

Maintain earthwork safety

Explore site plans and site grading

Continuing Education Credits

Professional Engineers
6.5 PDHs

Architects
6.5 HSW CE Hours
6.5 AIA LU|HSW

Landscape Architects
6.5 HSW CE Hours

LA CES
6.5 HSW PDHs

International Code Council
.65 CEUs (Sitework)



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Faculty

Daniel P. Messmer, P.E., D. GE
Project Manager with The Gateway Engineers, Inc., in Pittsburgh

Mr. Messmer has over 30 years of engineering experience in analysis, design, plan/specification development, and project management/personnel supervision for geotechnical, foundation and structural engineering projects in the transportation, industrial, municipal and commercial fields of civil engineering. Throughout his career he has placed an emphasis on quality control and staff training. Mr. Messmer is a member of the American Society of Civil Engineers, the American Concrete Institute, the American Society of Highway Engineers and the Society of American Military Engineers. He earned his B.S. degree in Civil Engineering from the University of Pittsburgh. Mr. Messmer was accepted into the Academy of Geo-Professionals in 2013.

Webinar Information

Log into Webinar	Break
8:00 - 8:30 am EDT	12:25 - 12:55 pm EDT
Morning Session	Afternoon Session
8:30 am - 12:25 pm EDT	12:55 - 3:50 pm EDT

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Recordings of this webinar are available for purchase. See registration panel 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.

Additional Learning

Webinar Series
Engineering Ethics: Handling Ethical Issues in Professional Engineering Practice

- Mon., August 17, 2020, 11:00 am – 12:00 pm CDT

Maintaining Existing Buildings under the 2018 International Property Maintenance Code

- Mon., August 17, 2020, 10:00 am – 2:30 pm CDT
- Mon., August 24, 2020, 10:00 am – 2:30 pm CDT

Retaining Wall Design and Global Stability Analysis

- Wed. August 19, 2020, 10:00 am – 2:15 pm CDT
- Thurs., August 20, 2020, 10:00 am – 2:15 pm CDT

Special Inspections under the International Building Code Chapter 17 (IBC 2015)

- Wed. August 19, 2020, 9:00 am – 1:30 pm CDT
- Thurs., August 20, 2020, 9:00 am – 12:15 pm CDT

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. It offers 6.5 HSW continuing education hours to landscape architects in most states, including Pennsylvania. HalfMoon Education is not seeking landscape architect approval in Florida, New Jersey, or North Carolina.

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), North Carolina (S-0130), and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects, and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2), §69.6(i)(2), and §79-1.5(i)(2)).

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU|HSW (Sponsor No. J885). Visit www.halfmoonseminars.org for complete AIA/CES information under this course listing. Only full participation is reportable to the AIA/CES.

Courses approved by the AIA/CES qualify for Florida architects. Other states do not preapprove continuing education providers or courses.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved this course for .65 CEUs in the specialty area of Sitework (HalfMoon Education Preferred Provider No. 1232).

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

Introduction to GNSS Surveying

- Thurs., August 20, 2020, 10:30 am - 1:45 pm CDT
- Fri., August 21, 2020, 10:30 am - 2:15 pm CDT

Introduction to HEC-HMS Modeling

- Thurs., August 20, 2020, 8:30 am – 5:00 pm CDT

Air-Source Heat Pumps for Energy Efficiency

- Thurs., August 20, 2020, 11:00 am – 2:15 pm CDT
- Fri., August 21, 2020, 11:00 am – 3:15 pm CDT

Introduction to HEC-RAS Modeling

- Mon., August 24, 2020, 11:00 am – 3:00 pm CDT
- Tues., August 25, 2020, 11:00 am – 3:30 pm CDT

Practical Use of the FMEA as a Design Tool

- Tues., August 25, 2020, 11:00 am – 3:15 pm CDT
- Wed., August 26, 2020, 11:00 am – 3:15 pm CDT

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Registration

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