You’ll be able to:

**Utilize** appropriate soil investigation methods.

**Understand** key properties of soil, including soil permeability and compressibility.

**Determine** bearing capacity and know how to increase it through draining and compaction.

**Evaluate** slope stability and understand slope failures.

**Describe** slope stabilization methods including reinforcement and soil improvement.

**Soil Mechanics, Bearing Capacity and Slope Stabilization**

Harrisburg, PA - Tuesday, May 24, 2016

Explore types of soil and soil investigation procedures

Review hydraulic and mechanical properties of soils and learn about stress and failure in soils

Examine the bearing capacity of shallow foundations, piers and piles

Understand slope failures and the impact of surface and groundwater

Compare slope stabilization methods, such as unloading and draining

**Continuing Education Credits**

Architects 6.5 HSW Contact Hours 6.5 AIA HSW Learning Units

Professional Engineers 6.5 PDHs

Contractors Non-Mandatory Cont. Ed.
Robert M. Sabanas, P.E., M. ASCE
Mr. Sabanas is a professional engineer with nearly 30 years of progressive engineering experience and project management related to geotechnical analyses and investigations. He has represented engineering consulting firms named in the Engineering News Record (ENR) top 300 throughout his career. He has served as technical manager for numerous engineering/construction projects in the Philadelphia and tri-state area for the majority of his career. He has been responsible for managing, planning, and implementing site characterization explorations for geotechnical and environmental projects, as well as the completion of special inspections programs associated with these projects. His responsibilities also included technical supervision over laboratory operations along with maintaining the accreditation programs of several commercial soils and geosynthetics laboratories. Notable projects include the following: Philadelphia Convention Center Expansion, A.I. DuPont Hospital for Children Expansion, PPL Center Hockey Arena, and Philadelphia International Airport-Terminal F Expansion. Mr. Sabanas holds a BS degree in GeoMechanical Engineering from the University of Rochester with a minor in Geology followed by a M.S. degree in Geotechnical Engineering. His responsibilities were primarily focused on the preparation and interpretation of geotechnical analysis using the finite element method for highway and rail construction projects. Mr. Sabanas has 30 years of experience in various aspects of geotechnical and geological engineering, including site investigations, geotechnical analyses, design recommendations, expert witness testimony and construction services for projects involving highways and railroads, and for commercial, industrial and residential facilities. He has received his B.S. degree in Geology from Bowling Green State University, followed by a B.S.E. degree in Geological Engineering and an M.S. degree in Engineering Geology from Purdue University. Mr. Petersen has served on the Editorial Board for the Geotechnical Institute’s Geo-Strata magazine since 2006 and recently completed a term as chairman for the Delaware Valley Geotechnical Engineering Institute.

Ernest H. P., E. Prize with GZA GeoEnvironmental Inc., Mr. Hanna is a licensed engineer in the Commonwealth of Pennsylvania, as well as the States of New Jersey and New York. He has been practicing geotechnical engineering for over 25-years with GZA GeoEnvironmental. Mr. Hanna graduated in 1979 from the University of Rochester with a B.S. degree in Biology/Geology. Following 5-years of consulting work as a geologist, he received an M.S. degree in Civil and Environmental Engineering from the University of Wisconsin-Madison in 1986. Since that time, Mr. Hanna has been responsible for data review, site investigation, engineering design, report preparation and construction monitoring for numerous geotechnical projects that include building foundations, bridge abutments and piers, dams, slopes and tunnels.

William K. Petersen, P.E.Senior Associate with Schlabach Engineering, Inc. Mr. Petersen has 25 years of experience in various aspects of geotechnical and geological engineering, including site investigations, geotechnical analyses, design recommendations, expert witness testimony and construction services for projects involving highways and railroads, and for commercial, industrial and residential facilities. He received his B.S. degree in Geology from Bowling Green State University, followed by a B.S.E. degree in Geological Engineering and an M.S. degree in Engineering Geology from Purdue University. Mr. Petersen has served on the Editorial Board for the Geotechnical Institute’s Geo-Strata magazine since 2006 and recently completed a term as chairman for the Delaware Valley Geotechnical Engineering Institute.

About the Seminar

Red Lion Harrisburg East
4751 Lindle Road
Harrisburg, PA 17111
(717) 839-7841

Tuition
$285 for individual registration
$249 for three or more simultaneous registrations. Each registration includes one copy of the seminar manual.

Registration Information
Receive a reduced tuition rate of $181 by registering before the seminar date for delivery. Please refer to specific state licensing rules or certification requirements. An audio recording of this seminar is available for $249.00, including shipping, for up to 120 days after the seminar date. A CD/Manual Package is available after the seminar for most individuals who complete the seminar. Attendance will be monitored, and attendance certificates will be mailed to participants within fifteen business days.

Webinar Series

Continuing Education Credit Information
This seminar is open to the public and offers up to 6.5 HSW continuing education hours to architects and 6.5 PDHs to professional engineers in most states, including Pennsylvania, New Jersey, and New York. Educators and courses are not subject to pre-approval in Pennsylvania. This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Sponsor No. J885). Programs approved by the AIA qualify for New Jersey and NY architects.

HalfMoon Education is an approved continuing education sponsor for architects in Florida, as well as the States of New Jersey, Delaware, Maryland, and Wisconsin-Madison in 1986. Since that time, Mr. Hanna has been responsible for data review, site investigation, environmental engineering design, report preparation and construction monitoring for numerous geotechnical projects that include building foundations, bridge abutments and piers, dams, slopes and tunnels.

Registration

Tuition
( ) I will be attending the live seminar. Single Registrant $289.00. Three or more registrants from the same company registering at the same time - $249.00 each. ( ) I am not attending. Please send me the CD manual package for $279.00. (S&H included. Please allow five weeks from seminar date for delivery)

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CARD/Manual Package
An audio recording of this seminar is available for $279 (including shipping). Allow five weeks from the seminar data delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.