

LOCATIONS AND ACCOMMODATIONS

Hotel Reservations must be made 4 weeks prior to the seminar. Rates apply only the day before and the last day of the seminar.

NEW YORK, NY

NOVEMBER 3-4, 2011

Radisson Lexington Hotel New York
511 Lexington Avenue at 48th Street
New York, NY 10017
212-418-6741
ASCE Hotel Rate: \$289 Single/Double

CHARLESTON, SC

FEBRUARY 9-10, 2012

Hilton Garden Inn Charleston
5265 International Blvd
Charleston, SC 29418
843-308-9330
ASCE Hotel Rate: \$119 Single/Double

HOUSTON, TX

MARCH 8-9, 2012

Marriott Houston South at Hobby Airport
9100 Gulf Freeway
Houston, TX 77017
713-943-7979
ASCE Hotel Rate: \$125 Single/Double

Send a Team and Save 10%

Register three or more from one organization for the same seminar/date/location and **save 10%** on each seminar registration. Registrations must be made at the same time to receive this discount. Discount registrations cannot be done online. They must be faxed to 703-295-6144.

ONLINE COURSES

ASCE offers online courses on a variety of technical and management topics, as well as courses on DVD and CD. For a complete listing of these courses or to register, please go to www.asce.org/onlinecourses. ASCE members receive discounts of 15% or more on most online courses. Volume discounts available.

SEMINARS

Confirmation Letter and Time/Location: All seminar registrations will be confirmed by email within one week of receiving your registration. Seminar time, location and hotel information will be included with your confirmation letter. Seminar fees include all course materials. Fees do not include hotel accommodations or meals. Hotel reservations should be made early as discounted rates are subject to cut-off dates.

Instructor Substitution: ASCE reserves the right to substitute an equally-qualified instructor for any seminar should unforeseen circumstances arise.

Cancellations: Cancellations must be made in writing via email or fax and must include registrant's name, confirmation # and name/date of the seminar. If you cancel 7 business days or less prior to the seminar start date, no refund/credit/personal transfers will be issued. You may transfer your registration to another registrant with no penalty up until the day of the seminar.* No credits/ refunds/personal transfers will be issued for no shows. If ASCE must cancel a seminar due to insufficient enrollment, your registration fee will be refunded in full. ASCE is not responsible for non-refundable expenses such as airfare, hotels, transfer fees, or any other expenses associated with a cancellation.

*Price differential will be charged if a non-member is replacing a member. Transfer may only be used one time, no multiple transfers allowed.

CEUs/Certificates: One (1.0) CEU equals ten contact hours of instruction. A CEU certificate will be issued to each person who successfully completes a seminar and for whom payment in full is verified. A permanent record will remain on file with ASCE. One (1.0) Continuing Education Unit (CEU) = Ten (10) Professional Development Hours.

Send a Team and Save: Register three or more from one organization to the same seminar/date/location and save 10% on each seminar registration. Registrations must be made at the same time to receive this discount.

On-Site Registration: Registration is available on-site at the seminar; however, we cannot guarantee that course materials will be available that day. Course notes and other materials will be mailed to you approximately four weeks after the seminar. Please be sure to contact ASCE no later than the day before the seminar to confirm that the seminar will be held as planned.

Dress: Casual business attire is appropriate for all seminars.

Membership: Go to www.asce.org to join ASCE and save on future continuing education opportunities. Enter 12CEFCAT in the promotion code section of the membership application.

LATE/ON-SITE REGISTRATIONS

For registrations received within 7 business days of the seminar, or those made on-site, availability of course materials cannot be guaranteed on-site. Should materials be unavailable, all notes/books and your course certificate will be mailed approximately four weeks after the seminar, provided payment has been made in full.

CEUS/PDHS

ASCE has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500, McLean, VA 22102. In addition, ASCE follows NCEES guidelines on continuing professional competency. Since continuing education requirements for P.E. license renewal vary from state to state, ASCE strongly recommends that individuals regularly check with their state registration board(s) on their specific continuing education requirements that affect P.E. licensure and the ability to renew licensure. For details on your state's requirements, please go to: http://www.ncees.org/licensing_boards.php.

ASCE®

Earth Retaining Structures, Selection, Design, Construction and Inspection



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Locations Please check one

New York, NY/November 3-4, 2011 60362012

Charleston, SC/February 9-10, 2012 60372012

Houston, TX/March 8-9, 2012 60382012

Fees Please check one

A copy of your check or PO is required when faxing your registration

\$1,275 Member

\$1,495 Non-Member



How to reach us:

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P.O. Box 79162
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EARTH RETAINING STRUCTURES, SELECTION, DESIGN, CONSTRUCTION AND INSPECTION

NOW IN AN LRFD DESIGN PLATFORM

New York, NY / November 3-4, 2011

Charleston, SC / February 9-10, 2012

Houston, TX / March 8-9, 2012

"The instructors are extremely knowledgeable."

- Seth Klein, USACE, Seattle, WA

"This seminar covers a broad range of retaining wall systems; very useful knowledge in day-to-day engineering practice. The manual is a very good reference."

- Fransiscus Hardianto, The Reinforced Earth Company, San Diego, CA

"Excellent seminar for designers, engineers, contractors and material vendors to help avoid potential pitfalls in the future."

- Kevin Orban, Commonwealth Associates Inc., Jackson, MI

"Excellent seminar for geotechnical engineers and contractors. Technical information provided is very practical and current."

- Zaid Ahmad, Southern California Edison, San Dimas, CA

"This seminar opened my eyes to the applications and design considerations of various earth retaining systems."

- William Young, QORE Inc., Lexington, KY



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NOT JUNK MAIL. If you don't need CEU's
please pass this on to someone who does.



1.4 CEUs

EARTH RETAINING STRUCTURES, SELECTION, DESIGN, CONSTRUCTION AND INSPECTION

NOW IN AN LRFD DESIGN PLATFORM

PURPOSE AND BACKGROUND

The United States earth retaining structure market exceeds 170 million square feet annually and there are over 50 different retaining systems to select from which are unique in design and construction. Unit costs vary from less than \$20 to in excess of \$250 per square foot. Selecting the most technically appropriate and cost-effective system is often critical to project cost and schedule. Selection of an inappropriate system unfortunately can result in time consuming and costly construction disputes. Many engineers, contractors and project managers do not have the needed knowledge and skills to select, design and construct these systems.

The instructors combine to present the critical knowledge and skills you need in order to take advantage of the cost effective use of earth retaining structures in urban construction for transportation, commercial and industrial development. From start to finish—from design to construction and general site development – the instructors will lead you through the myriad of more than 50 different retaining wall systems from which you can choose.

During this two-day program the instructors present a logical sequence of topics and activities to allow participants to demonstrate their knowledge and skills. These activities include: lecture, student exercises, instructor lead example problems and lively discussion periods. All participants will receive a copy of the Federal Highway Administration's newly released publication (June 2008) on the selection, design and construction of Earth Retaining Structures. This publication is the 3rd edition of the subject document and has been totally rewritten with expanded and updated sections in many topics including subsurface drainage, selection of soil and rock properties and detailed design examples.

The most significant course manual and lesson change is the adoption of the limit states design platform of Load and Resistance Factor Design (LRFD). The new publication closely follows the current AASHTO specifications for Bridges and Structures but has direct standard of practice guidance for all Civil Engineering applications requiring temporary and permanent retaining structures.

SEMINAR BENEFITS AND LEARNING OUTCOMES

Upon completion of this course, participants will have gained enormously from the experience and the practical knowledge of the instructors:

- Recognize potential applications for retention structures used in civil engineering applications
- Select the most technically appropriate and cost-effective earth retaining system for your application
- Examine and select appropriate material properties, soil/rock design parameters and earth pressure diagrams
- Prepare conceptual and basic designs using appropriate design methods, factors of safety, earth pressure diagrams and field verification methods
- Understand and apply load and resistance factor design principles to the design of temporary and permanent earth retaining structures
- Evaluate and review contractor submitted designs
- Select appropriate specification/contracting method(s) and prepare contract documents
- Demonstrate a clear understanding of retaining wall construction and maintenance

ASSESSMENT OF LEARNING OUTCOMES

Students' achievement of the learning outcomes will be assessed through class exercises, class discussion following the presentation of each major topic, and through short case studies.

SPECIAL FEATURES

Participants will receive a copy of Earth Retaining Structures, a comprehensive reference manual based on the latest national guidance (June 2008).

WHO SHOULD ATTEND?

This program is developed to meet the needs of generalist civil engineers, geotechnical and structural specialists, contractors, and retaining wall company representatives.

SEMINAR INSTRUCTORS *This course will be taught by two of the following instructors:*

BARRY R. CHRISTOPHER, Ph.D., P.E., M.ASCE, is a geotechnical engineering consultant specializing in reinforced soil and other ground improvement technologies, geosynthetic application and design, and geotechnical testing and instrumentation. He has a BSCE from UNC, Charlotte, MS from Northwestern, and a Ph.D. from Purdue University. He is a registered professional engineer in several states, is a certified National Highway Institute instructor, and has over 30 years of national and international experience. Dr. Christopher has authored over 100 technical papers, nine design manuals, a textbook, and several book chapters. He has designed, evaluated, instrumented and/or supervised the construction of numerous earth retaining structures. He is a principal consultant for the HITEC National Earth Retaining Structures review program. Working with the FHWA, he has helped develop and presented courses nationwide to transportation agencies on MSE walls, reinforced soil slopes, earth retaining structures, soils and foundations, subsurface exploration, and geotechnical instrumentation.

JERRY A. DIMAGGIO, P.E., M.ASCE, is Principal Bridge Engineer - Geotechnical (retired) with the U.S. DOT, Federal Highway Administration in Washington D.C. He holds B.S. and M.S. degrees in Civil Engineering from Clarkson University in New York State and is a registered professional engineer in several states. Mr. DiMaggio is a certified Master Trainer and licensed Contract Arbitrator (AAA). He has provided technical expert design and construction assistance on over 900 transportation projects in all 50 states, throughout Central and South America, and several Middle Eastern countries. He has presented over 300 seminars and workshops for professionals in design and construction of bridges, retaining walls and engineering earthworks.

Mr. DiMaggio is currently a member of several national committees and task forces related to the development of technical guidelines, specifications and testing standards related to geotechnical and foundation practice. He is a member of the adjunct faculty at the University of Delaware.

SILAS NICHOLS is the Principal Geotechnical Engineer in the Federal Highway Administration's Office of Infrastructure. Silas has more than 20 years of experience in geotechnical engineering and is a certified Master Trainer. Silas has developed and taught numerous short courses in structural foundations, earth retaining structures, and ground improvement for the accredited National Highway Institute. Silas is an adjunct lecturer in the Civil Engineering Departments at the University of Delaware and The Catholic University of America in Washington, DC. Silas has a Bachelor's Degree in Civil Engineering from Syracuse University and a Master's Degree in Geotechnical Engineering from Tuft's University.

JOHN R. WOLOSIK, P.E. is Director of Engineering for Hayward Baker Inc., Atlanta, Georgia where he covers projects nationwide and specializes in drilled anchor systems, soil nailing, earth retention and landslide stabilization, micropiling and underpinning, and all types of grouting. He holds B.S. and M.S. degrees in Civil Engineering from the University of Illinois at Urbana-Champaign. Mr. Wolosick is the author of more than 30 technical papers, including 10 papers dealing with earth retaining structures. He is a Registered Professional Engineer in nine Mid-Atlantic and Southern states as well as the District of Columbia. Mr. Wolosick is the former Chair of the Georgia ASCE Geotechnical Committee. He is also a member of the ASCE Earth Retaining Structures committee and teaches the Earth Retaining Structures Course for the National Highway Institute. He also formerly taught the ASCE course "Selecting Earth Retaining Systems." He has designed more than 100 earth retention systems in his career.

PAUL J. SABATINI, Ph.D., P.E., is an Associate with Geosyntec Consultants in their Oak Brook, Illinois office. He has been a practicing engineer for 16 years and has been involved in multiple projects involving the analysis, design, and inspection of anchored walls, landslide stabilization systems, soil nail walls, braced excavations, MSE walls, gabion walls, and deep mixing for earth and foundation support. He is the author of seven Federal Highway Administration/National Highway Institute publications on ground anchors, soil nailing, micropiles, and load and resistance factor design for earth retaining systems. He is a certified instructor for the National Highway Institute. Dr. Sabatini is a member of ASCE's Earth Retaining Structures Committee and was the 2004 recipient of the Arthur Casagrande award for contributions to the design of ground anchors and earth retaining systems.

Summary Outline

TIME: 8:30am – 4:30pm

DAY 1

Introductions, Learning Objectives and Course Overview

History/Classification/Selection of Earth Retaining Systems

Soil and Rock Properties (tests and design property selection)

Lateral Earth Pressures

Cast-in-Place and Semi-Gravity Wall

Modular Gravity Walls

Mechanically Stabilized Earth Walls Intro and Concepts

DAY 2

MSE Walls Design and Construction

Externally Stabilized Walls (e.g., Sheet Pile, Soldier Pile and Lagging, Slurry Walls) Intro

Externally Stabilized Wall Design

Ground Anchor Walls

Soil Nail Walls and Micropile Walls

Course Summary and Closure

LIVE ON THE WEB

Prepare for and pass the **P.E. Exam with help from ASCE's live P.E. Exam Review Courses** on the web, offered twice yearly. Don't miss this opportunity. For detailed information and registration deadlines, go to www.asce.org/perewiewlive.

In-House Presentations

Let us come to you.

ASCE seminars can be:

- Presented at your organization
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