

CONTINUING EDUCATION PROGRAM

UNION GRADUATE COLLEGE
(UGC)

EXPERIMENTAL SOIL MECHANICS

August 17-19, 2009

UNION COLLEGE CAMPUS

18 PDH



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WORKSHOP PURPOSE AND DESCRIPTION

Examination of the engineering properties of soils using standard test methods developed by professional engineering societies. These experimental methods are necessary in the determination of the parameters required in the design of earth structures or in foundation design. Topics include:

- Grain size distribution of granular soils.
- Grain size distribution of cohesive soils.
- Liquid and Plastic Limits, and Plasticity Index of cohesive soil.
- The Unified and AASHTO Soil Classification Systems.
- Moisture-density relations of soils.
- Permeability of granular and cohesive soils.
- Unconfined compressive strength of cohesive soil.
- Direct shear test of soils.
- One-dimensional consolidation properties of soils.
- Compressive strength of cohesive soils in triaxial compression.

PROFESSIONAL DEVELOPMENT HOURS (PDH)

Attendees of this workshop will earn 18 PDHs [equivalent to 1.8 Continuing Education Units (CEUs)] that can be applied toward PE license renewal required in the State of New York.

Union Graduate College (UGC) is an authorized provider of PDHs (or CEUs) and an approved sponsor of continuing education for PEs in the State of New York.

WHO SHOULD ATTEND

This workshop is structured to benefit engineers involved in the geotechnical design of deep foundations, settlement calculation including elastic and plastic analysis, evaluation of pile bearing capacity, action of group pile, settlement of piles, and negative skin friction.

WORKSHOP INSTRUCTOR

Ashraf Ghaly is a Professor of Engineering at Union College. He is a registered Professional Engineer (PE) in NYS. He received his M.Sc. and Ph.D. degrees in Geotechnical Engineering. He has over 25 years of teaching and industrial experience, and has authored or co-authored numerous technical papers. Dr. Ghaly is a Fellow of the American Society of Civil Engineers (ASCE).
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TIME AND LOCATION

The workshop will be held on August 17-19, 2009 between 9:00 AM - 4:00 PM. Lectures will take place at Union College, Schenectady, NY.

NOTES

Geotechnical design procedures in this workshop are those specified in the code of practice. This includes ASCE published manuals, NYS design manuals, US Army Corps of Engineers Design Manual, and the US Navy Design Manual. These design procedures can also be found in textbooks on the subject of shallow and deep foundation engineering.

Attendees are strongly encouraged to ask questions and share concerns and ideas of real or hypothetical design situations they may wish to address.

Workshop Schedule

Monday, August 17, 2009	
Time	Subject
9:00am-10:00am	Sieve Analysis
10:10am-11:10am	Soil Classification
11:20am-12:20pm	Atterberg Limits
12:20pm-1:00pm	Lunch (provided)
1:00pm-2:00pm	Soil Compaction
2:00pm-3:00pm	Demonstration, Sieve Analysis Test
3:00pm-4:00pm	Demonstration, Atterberg Limits

Tuesday, August 18, 2009	
Time	Subject
9:00am-10:00am	Soil Permeability
10:10am-11:10am	Unconfined Compression of Soils
11:20am-12:20pm	Direct Shear Box Test
12:20pm-1:00pm	Lunch (provided)
1:00pm-2:00pm	Demonstration, Soil Compaction
2:00pm-3:00pm	Demonstration, Soil Permeability
3:00pm-4:00pm	Demonstration, Unconfined Compression Test

Wednesday, August 19, 2009	
Time	Subject
9:00am-10:30am	Triaxial Testing of Soils
10:40am-12:20pm	Consolidations of Soils
12:20pm-1:00pm	Lunch (provided)
1:00pm-1:40pm	Demonstration, Direct Shear Box Test
1:40pm-2:20pm	Demonstration, Unconsolidated Undrained Triaxial Test
2:20pm-3:10pm	Demonstration, One-dimensional Consolidation Test
3:10pm-4:00pm	Demonstration, Unconfined Compression Test

No transfers or refunds will be issued within 5 business days of the workshop. There will be no credits issued after the workshop has begun. Your registration may be transferred to another individual anytime, up to the first day of the workshop. If the GCUU cancels a workshop due to insufficient enrollment, full refund will be issued.

CONTINUING EDUCATION PROGRAM (UGC)

REGISTRATION FORM

Experimental Soil Mechanics

August 17-19, 2009

Name _____

Title _____

Company _____

Address _____

City _____ State _____ Zip _____

Telephone _____ Cell _____

Email _____

REGISTRATION INFORMATION

ENROLLMENT

Registration fee must be paid in advance. To register, please complete and mail the registration form with your payment. Make check payable to Union Graduate College (UGC). Check, credit card, and purchase order are all acceptable form of payment. Registration fee includes all course materials, lunch, coffee breaks, and snacks.

CONFIRMATION

All registrants will receive email confirmation. If you do not receive confirmation within one week of the date of the workshop, please call or email.

CERTIFICATES

Workshop participants will receive a certificate of completion stating the number of PDHs earned.

TEAM DISCOUNT

Three or more people attending the same workshop from the same company receive 10% discount off each enrollment fee when registering at the same time.

CANCELLATION/REFUND POLICY

If you need to cancel your registration, please contact us as early as possible. Cancellation must be made in writing on your company letterhead with attendee's name, and the name and date of the workshop. Cancellation note should be mailed or faxed. There will be a charge of \$99 for cancellation within 10 business days of the workshop, and no refunds for cancellation within 5 business days of the seminar. You can transfer the registration to another future workshop, but this must be done before the 5-day deadline to receive full credit for money paid.

A check for \$1200 is enclosed.

Charge my credit card [MC] [Visa]

Card Number _____

Exp. Date _____

Name as it appears on card _____

If faxing, include a copy of check/purchase order.

Contact Information

Mail

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