

UNION GRADUATE COLLEGE (UGC)

CONTINUING EDUCATION PROGRAM

PAVEMENT DESIGN AND TESTING

August 20-21, 2009

UNION COLLEGE CAMPUS
Schenectady, NY 12308

13 PDHs



Visit Continuing Education Website

<http://ce.union.edu>

WORKSHOP PURPOSE AND DESCRIPTION

This course aims at developing an understanding of the design and characteristics of Hot Mix Asphalt (HMA) and rigid pavement. Methods of manufacturing, structural design of sections, construction and placement, and testing of HMA will be discussed in detail. The utilized methods of testing are those standardized by the American Society for Testing and Materials (ASTM). Professional design procedures recommended by the Asphalt Institute (AI) will be used. Topics covered include:

- Hot Mix Asphalt
- Traffic Loading and Volume
- Material Characterization
- Stress and Strain in Flexible Pavements
- Stress and Deflection in Rigid Pavement
- Pavement Performance

PROFESSIONAL DEVELOPMENT HOURS (PDH)

Attendees of this workshop will earn 13 PDHs [equivalent to 1.3 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 design and testing of flexible and rigid pavements, and those wishing to acquire more knowledge in these areas. Participants will receive extensive notes covering the theory with detailed design examples.

TIME AND LOCATION

The workshop will be held on Thursday and Friday, August 20-21, 2009 between 9:00 AM - 4:30 PM. Lectures will take place at Union College campus, Schenectady, NY 12308. Upon receipt of the registration form, the participant will receive an email with detailed directions.

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 experience and received several teaching and research honors. He authored or co-authored numerous technical and professional papers. Dr. Ghaly is a Fellow of the American Society of Civil Engineers (ASCE).

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NOTES

- The utilized methods of testing are those standardized by the American Society for Testing and Materials (ASTM) and the American Association for State Highway and Transportation Officials (AASHTO).
- Professional design procedures recommended by the Asphalt Institute (AI), The US Federal Highway Administration (FHWA), and AASHTO will be used in the structural design procedures covered in this workshop. Concrete mix design will be covered as detailed in the publications of the American Concrete Institute (ACI).

- 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

Thursday, August 20, 2009	
Time	Subject
9:00AM-10:00AM	Aggregate
10:10AM-11:10AM	Sieve Analysis
11:20AM-12:20PM	Aggregate Blending
12:20PM-1:00PM	Lunch (provided)
1:00PM-2:00PM	Specific Gravity
2:10PM-3:20PM	Design of Hot Mix Asphalt (HMA)
3:30PM-4:30PM	Marshall Method of Mix Design

Friday, August 21, 2009	
Time	Subject
9:00AM-10:00AM	Superpave
10:10AM-11:40	Flexible Pavement Design (Asphalt Institute Method)
11:50AM-12:20PM	Flexible Pavement Design (AASHTO Method)
12:20PM-1:00PM	Lunch (provided)
1:00PM-2:00PM	Rigid Pavement & Concrete Mix Design
2:10PM-3:20PM	Design Session 1 (Flexible Pavement)
3:30PM-4:30PM	Design Session 2 (Rigid Pavement)

REGISTRATION INFORMATION

ENROLLMENT

Registration fee must be paid in advance. To register, complete and mail the registration form with your payment. Make check payable to UGC. Check, credit card, and purchase order are all acceptable forms of payment. Registration fee includes all course materials.

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 letter 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. 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 UGC cancels a workshop due to insufficient enrollment, full refund will be issued.

Union Graduate College CONTINUING EDUCATION PROGRAM
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REGISTRATION FORM

PAVEMENT DESIGN AND TESTING

August 20-21, 2009

Name _____

Title _____

Company _____

Address _____

City _____ State _____ Zip _____

Telephone _____ Cell _____

Email _____

<input type="checkbox"/> A check for \$900 is enclosed. <input type="checkbox"/> Charge my credit card <input type="checkbox"/> [MC] <input type="checkbox"/> [Visa] Card Number _____ Exp. Date _____ Name as it appears on card _____ <input type="checkbox"/> If faxing, include a copy of check/purchase order.
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Contact Information

Mail

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