

## REGISTRATION AND GENERAL INFORMATION

**Program fee** covers handout materials, continental breakfast on Day 1 (only) and all breaks. (Lunch is not provided, but Akron offers many options.)

**Group registration** 3 or more registrants from the same company, pay \$695/person  
**Individual registration** \$795

**Registration is limited** due to the highly interactive nature of this course.

**Enrollment deadline** is October 26, 2007.

**Early registration discount** register by October 12, 2007 to save \$50.

**Cancellations and substitutions** refunds will be granted if the request is received in writing by November 2, 2007. Substitutions are permitted up through the first day of the course.

**Registration confirmation:** A letter of confirmation will be mailed to your e-mail address on or before November 2 and will include accommodations & transportation information.

Air transportation should be arranged to either Cleveland or Akron airport

**Accommodations:** Crown Plaza Quaker Square, 135 South Broadway Akron, OH. (330)253-5970, (866)668-6689.

Fax registration form to Dept of Civil Engineering 330-972-6020.

If paying by check or purchase order, please make check payable to The University of Akron and mail to:

Attn: Professor Robert Liang

Department of Civil Engineering,  
University of Akron,  
Akron, OH 44325-3905

For more information about the course, contact Program Director: Robert Liang 330-972-7190 or rliang@uakron.edu

## REGISTRATION FORM

**Registration due Friday, October 26, 2007. Register by October 12, 2007 and deduct \$50.**

Name \_\_\_\_\_

Social Security# \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Employer \_\_\_\_\_

Position \_\_\_\_\_

Daytime Phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

**YES, reserve my place for the 3-day short course MECHANICALLY STABILIZED EARTH WALLS & REINFORCED SOILS SLOPES at the University of Akron on November 08 to 10. I understand that a refund will be granted only if the request is made in writing by November 02, 2007. If I am unable to attend the course, a substitute may attend in my place.**

Amount Enclosed: \_\_\_\_\_

Check # \_\_\_\_\_ (payable to The University of Akron)

Purchase Order # \_\_\_\_\_

MasterCard  Visa  Discover

Card \_\_\_\_\_

Expiration Date \_\_\_\_\_

Signature of Cardholder \_\_\_\_\_

Department of Civil Engineering  
The University of Akron  
Akron, OH 44325-3905

The University  
of Akron

## The University of Akron College of Engineering

PRESENTS...

**MECHANICALLY STABILIZED  
EARTH WALLS  
&  
REINFORCED SOIL SLOPES**

Instructor: Jerry A. DiMaggio  
and  
Dov Leshchinsky

**November 08 to 10, 2007**

23 Professional  
Development Hours

Non-Profit Organization  
U.S. Postage Paid  
The University of Akron

## COURSE DESCRIPTION

This practical training program, based on AASHTO and FHWA technical specifications and design and construction recommendations on soil reinforcement, is presented by two nationally known geotechnical experts who will help YOU appreciate and implement mechanically stabilized earth walls and reinforced soil slopes (MSEW/RSS).

Discussion will involve civil and geotechnical design issues. You will learn how to combine soil reinforcing materials made of steel and polymers with an appropriate facing to produce a composite structure with improved engineering properties. These extremely cost effective and aesthetically pleasing earth fill construction methods provide substantial construction time-savings compared to conventional types of earth retaining systems used in the transportation community. *Registration will be limited* in order to facilitate discussion and learning that takes place not only through lectures, but also through working with your peers on sample problems *and* getting hands-on experience with the *MSEW* and *ReSSA* software, both of which use Windows operating systems. (You should bring a calculator for problem-solving sessions and your laptop computer, on which the software will be temporarily loaded to run on Windows operating system.)

## WHO SHOULD ATTEND

Design specialists (geotechnical, structural, roadway), engineering geologists and senior construction engineers; consulting engineers; industry, technical representatives and academic community representatives who work on earth retaining structure selection, design and contracting will all find this course extremely valuable. Attendees should have a

basic knowledge of soil mechanics and roadway design.

## COURSE FORMAT

DiMaggio and Leshchinsky present a logical sequence of topics and activities to allow participants to demonstrate their knowledge and skills. These activities include:

Lecture

Student exercises

Instructor example problems

Lively discussion periods

Software demonstrations

## BENEFITS

- Gain practical knowledge in all areas of mechanically stabilized earth walls and reinforced soil slopes, including:
  - ❖ design (LRFD, Allowable Stress for MSE Walls, designs beyond AASHTO)
  - ❖ selection
  - ❖ construction
  - ❖ monitoring
  - ❖ contractual aspects
- Use sophisticated *MSEW* and *ReSSA* software, temporarily loaded on your own laptop, to perform *hands-on* exercises – even using the software as a forensic tool.
- Understand the advantages and limitations of each reinforcement system.

## THE AGENDA

**Thursday, November 08<sup>th</sup>, 7:30 am --**

Registration & Continental Breakfast

**Thursday & Friday, November 08<sup>th</sup> & 09<sup>th</sup>, 8 am-5 pm --** class time

**Saturday, November 10<sup>th</sup>, 8 am-4 pm --** class time

Through a combination of lectures, example problems, student exercises and discussion, this course covers the following topics:

- MSE Wall Systems: applications, description.
- Differences between NCMA and AASHTO standards
- Site and project evaluations
- Construction methods
- Soil Reinforcement Principles
- Design of MSE Wall Systems - *ASD & LRFD: What's the same? What's different?*
- Design of MSE Walls with Complex Geometries
- Reinforced Soil Slopes: project evaluation
- Design of reinforced slopes including details such as cost, case histories
- Specifications and Contracting Methods
- Field Inspection and Monitoring *Plus*
- Multiple student exercises dealing with MSE Walls and Reinforced Soil Slopes
- Walk-through *MSEW* software, with instructive examples of reinforced walls
- Walk-through *ReSSA* software, with instructive examples of reinforced slopes and embankments

***NOTE: YOU input data, review the results, and perform instructive parametric studies under the guidance of Dov Leshchinsky and Jerry DiMaggio***

## THE PRESENTERS

**Jerry A. DiMaggio** is a principal geotechnical engineer and a certified Master Teacher with the Federal Highway Administration and is a member of the University of Delaware's adjunct faculty. With approximately 30 years of experience in geotechnical and foundation engineering practice involving ground

improvement, deep foundations, soil reinforcement methods and earth retaining structures, he has provided design and construction assistance on over 900 projects in all 50 states, Central and South America, and the Middle East. He serves on numerous national committees and task forces related to the development of technical guidelines, specifications and testing standards related to geotechnical engineering practice, and has presented more than 200 seminars and workshops for practicing engineers. Mr. DiMaggio holds a BS and MS in geotechnical engineering from Clarkson University and is a registered professional engineer in several states.

**Dov Leshchinsky** is a professor of civil engineering at the University of Delaware. He has developed design methods, including geo-synthetic reinforced slopes and walls that are being used worldwide. Dr. Leshchinsky holds the PhD in geotechnical engineering from the University of Illinois at Chicago, as well as bachelor and master's degrees in civil engineering from the Technion-Israel Institute of Technology. His research interests are in the areas of soil-structure interaction, slope stability engineering, soil reinforcing and ground improvement. Prior to joining Delaware's faculty, he was a research engineer with the Association of American Railroads.