



2004-2005

Short Course Announcement

Minnesota Geotechnical Society

Reinforced Soil Structures: Design Methods, Issues and Innovations:

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This 1-day short course will focus on the design of reinforced soil systems including retaining walls, steepened reinforced slopes, embankments over soft soils, and column supported embankments. A brief background of the application of each of these technologies will be presented including the advantages, economic considerations, and limitations of each type of system as compared to other conventional practices. Details concerning the design, selection of reinforcing materials, specification of each type of system will be reviewed. Current design codes/standards and software will be summarized and compared. An overview of several recent innovations such as newly developed alternative design procedures; and the Mn\DOT MSE wall and reinforced soil slope standard designs and approved products list will also be presented. Special issues that have on occasion resulted in undesirable performance will be reviewed.

Each attendee will receive:

- Mechanically Stabilized Earth Walls and Reinforced Soil Slopes - Design and Construction Guidelines; by Elias, Christopher and Berg; FHWA NHI-00-043, March 2001, 394 pages.
- Corrosion/Degradation of Soil Reinforcements for Mechanically Stabilized Earth Walls and Reinforced Soil Slopes; by Elias; FHWA NHI-00-044, March 2001, 94 pages.
- Excerpt on Column Supported Embankments from Ground Improvement Methods; by Elias, Welsh, Warren, Lukas, Collin and Berg; FHWA NHI-04-001
- Excerpt on Reinforced Embankments on Soft Soils from *Geosynthetic Engineering*; by Holtz, Christopher and Berg, FHWA NHI-095-038.
- Mn/DOT standard drawings and approved products lists for MSE walls and RSS.

Date: Wednesday, January 12, 2005
Location: Training Room - American Engineering and Testing, Inc.
550 Cleveland Avenue North
St. Paul, MN. Free parking is available in back lot.

Time: **7:30** Registration
8:00 Presentation – Ryan Berg, PE and Barry Christopher, Ph.D., P.E.
12:00 Lunch (Provided with registration)
1:00 Resume Presentation
3:00 Closing

(Six professional development hours toward continuing education requirements for Professional Engineers is available).

Cost: \$115.00 members, \$135.00 non-members, payable to MGS at the door.

Reservations: Requested by 3 p.m., Wednesday, January 5, 2004
Space is limited; please call Ann Schmidt to reserve your place or register online. Ann may be reached by phone: (651) 603-6611, online registration can be done at www.mngeotechnicalsociety.com/eventscourses

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