

UMR

May 20, 2005

GEOMO 2005

Flexible and Mechanically Stabilized Walls

THE SUBJECT AND WORKSHOP

Earth retaining walls are a common component of both horizontal and vertical construction. These structures have the distinction of being the first to be analyzed using mechanics (Coulomb). Although rigid retaining walls are still being used, flexible retaining walls including tied-back and mechanically stabilized walls are becoming more and more popular. Failures of these structures frequently occur. In this workshop current design and analysis practices of both tied-back (flexible) and mechanically stabilized walls (MSE) will be presented. Design examples and case studies will be presented.

THE LECTURERS

ALAN MACNAB is Business Development Officer for Condon-Johnson & Assoc., Inc. Condon-Johnson & Associates are geotechnical contractors with special expertise in shoring, sheet-piling, soil nailing, drilled shafts and stone columns. Macnab's entire career has been spent with earth retention construction companies. He has been involved in the construction of earth retention and deep foundation projects since 1973 throughout North America. His roles in construction have included work in operations, supervision, estimating, marketing, and claims, including executive positions in both Canada and the United States. He has held the Presidency of ADSC, and the President of the Geo-Institute, ASCE. He is a frequent speaker on issues involved in these specialties to engineering, academic and supervisory personnel and has written extensively on these topics. Alan is the author of the Earth Retention Systems Handbook, McGraw-Hill, 2002.

BARRY R. CHRISTOPHER, PH.D., P.E. is an independent geotechnical engineering consultant specializing in reinforced soil and other ground improvement technologies, geo-environmental containment system design, geosynthetic application and design, and geotechnical/geosynthetic testing and instrumentation. He has a BSCE from U.N.C. Charlotte, a MSCE from Northwestern University, and a Ph.D. from Purdue University. He is a registered Professional Engineer in

six states and has over 25 years of experience in geotechnical and geosynthetics engineering. He has authored over 70 technical papers, many of which are on reinforced soil technology, six design manuals for U.S. federal agencies, two of which are on reinforced soil structures, and recently a textbook on geosynthetics (Geosynthetics Engineering, Holtz, Christopher and Berg, BiTech, 1997). Dr. Christopher was the principal investigator (1985-1990) for the FHWA research study on "Behavior of Reinforced Soil," and has designed, supervised the construction and instrumented numerous reinforced soil structures. He is currently the co-principal in the FHWA/NHI workshops on Geosynthetics Engineering, Mechanically Stabilized Earth Walls and Reinforced Soil Slopes, Geotechnical Instrumentation, and Subsurface Investigation. He is also the co-technical director and a principal consultant for the HITEC Earth Retaining Structures review program. His professional service activities include chair of several national and international professional committees and he is currently active in ASTM, ASCE, IGS, NAGS, the GeoCouncil, ISO and TRB.

REGISTRATION

Fee for the workshop is \$125. Early registration (prior to May 13, 2005) is \$100. Registration includes course notes, video materials and a luncheon. Attendees will also receive a certificate for six Professional Development Hours.

For registration and further information see our web site:
<http://dce.umn.edu/NonCredit/Conferences/>

Distance & Continuing Education
103 ME Annex • 1870 Miner Circle
Rolla, MO 65409-1560
Phone: (573) 341-4200 Fax: (573) 341-4992
Email: dce@umn.edu

Dr. Rick Stephenson, Conference Director
Phone: (573) 341-6549 Email: stephens@umn.edu

Distance & Continuing Education • University of Missouri-Rolla
103 ME Annex • 1870 Miner Circle • Rolla, Missouri 65409-1560
PHONE (573) 341-4200 • FAX (573) 341-4992 • EMAIL dce@umn.edu
