Register Online
geotechtesting.mst.edu

Wednesday, January 4
7:30 a.m. Final Registration
8:00 a.m. Objectives (Stephenson)
8:20 a.m. Consolidation Testing
9:20 a.m. The Consolidation Test, Equipment, Procedures, Errors, Reduction of Data, including Back Pressure and Controlled Gradient Tests (Stephenson)
10:30 a.m. Break
10:45 a.m. Consolidation continued (Ge)
12:00 p.m. Lunch (on your own)
1:00 p.m. Consolidation continued (Ge)
2:00 p.m. Permeability (Hydraulic Conductivity) Testing of Clays and Silts (Stephenson)
3:00 p.m. Break
3:15 p.m. Permeability continued (Stephenson)
4:00 p.m. Work Groups - On rotating basis
  • Consolidation Testing Instructional Laboratory (Luna)
  • Permeability (Conductivity) Testing Demonstration of Coarse-grained and Fine-grained Soil (Stephenson)
6:00 p.m. Course ends for the day

Thursday, January 5
8:00 a.m. Back Pressure and Controlled Gradient Consolidation Tests (Ge)
9:00 a.m. Graphical Construction and Plotting Results of the Consolidation Test (Ge)
10:00 a.m. Shear Testing - Types of Apparatus and Tests (Stephenson)
10:50 a.m. Break
11:10 a.m. Direct Shear Testing (Stephenson)
12:00 p.m. Lunch (on your own)
1:00 p.m. The Basic Principles of Triaxial Testing (Luna)
2:00 p.m. Triaxial Shear Tests - CD, CU and UU (Luna)
3:00 p.m. Stress Paths and Pore Pressure Parameters (Luna)
3:50 p.m. Break
4:00 p.m. Work Groups - On rotating basis
  • Triaxial Instructional Laboratory (Stephenson)
  • Demonstration of Direct Shear Testing (Luna)
6:00 p.m. Course ends for the day

Friday, January 6
8:00 a.m. Triaxial Tests Continued: Methods of Applying Confining Pressure, Measurement of Axial Applied Forces and Bushing Friction
10:00 a.m. Effects of Membranes and Drains, Leakage through Membranes, Valves and Fittings, End Restraint, Loading Rates for Drained Tests (S Tests) (Luna)
12:00 p.m. Lunch (on your own)
1:00 p.m. Triaxial Shear Tests Measurement of Pore Water Pressure, Loading Rates When Pore Pressures are to be Measured (Stephenson)
4:00 p.m. Course completed

Technical Contact:
Dr. Richard Stephenson,
Professor, Civil Engineering
Phone: 573-341-6549
Email: stephens@mst.edu

Registration Contact:
Distance Education
216 Centennial Hall
Rolla, MO 65409-1560
Phone: 573-341-6222
Fax: 573-341-4992
Email: dce@mst.edu

Course Objectives
- Proper soil specimen handling and preparation procedures for testing.
- Critical techniques required to conduct and present results of consolidation, permeability, and shear strength tests.
- Techniques to eliminate and reduce critical testing errors.

Cancellation Policy. Missouri S&T reserves the right to cancel its programs in the event of insufficient registrations, instructor illness, severe weather, or natural disaster. Decision to proceed with this course will be made on December 7, 2011, based on registrations received at that time. In the event of cancellation, registrants will be notified immediately and all fees will be refunded in full. Individuals wishing to cancel their registrations must do so two weeks (14 days) prior to the start of the course. Refunds will not be issued after this date. Substitutions may be made at any time.