

Soil Strength and Slope Stability Lecture Schedule

Wednesday, December 3, 2008

8:00 AM – 8:30 AM

Self-introductions and review of schedule

8:30 AM – 9:15 AM

Soil mechanics principles governing slope stability

9:15 AM – 9:30 AM

Break

9:30 AM – 10:30 AM

Mechanics of limit equilibrium methods

10:30 AM – 10:45 AM

Break

10:45 AM – 11:30 AM

Drained shear strength of cohesionless soils

11:30 AM – 12:00 Noon

Drained shear strength of cohesive soils

12:00 Noon – 1:00 PM

Lunch

1:00 PM – 2:00 PM

Undrained shear strength of cohesive soils – Part 1

2:00 PM – 2:15 PM

Break

2:15 PM – 3:15 PM

Undrained shear strength of cohesive soils – Part 2

3:15 PM – 3:30 PM

Break

3:30 PM – 4:00 PM

Undrained shear strength of cohesive soils – Part 3

4:00 PM – 4:15 PM

Break

4:15 PM – 5:00 PM

Water pressures and unit weights for slope stability analyses

Thursday, December 4, 2008

8:00 AM – 8:45 AM

Use of back analysis in slope stability studies

8:45 AM – 9:00 AM

Break

9:00 AM – 9:45 AM

Commonly encountered problems with computer analyses of slope stability

9:45 AM – 10:00 AM

Break

10:00 AM – 10:45 AM

Analyses of stability of reinforced slopes

10:45 AM – 11:00 AM

Break

11:00 AM – 12:00 Noon

Computer-based slope stability analysis – Part 1

12:00 Noon – 1:00 PM

Lunch

1:00 PM – 1:45 PM

Computer-based slope stability analysis – Part 2

1:45 PM – 2:00 PM

Break

2:00 PM – 3:00 PM

Discussion of case histories and questions presented by course attendees