

SCHEDULE

“COMPUTATIONAL GEOTECHNICS” ZÜRICH, SWITZERLAND - SEPTEMBER 8-12, 2014

INTRODUCTION DAY, BASICS OF PLAXIS (OPTIONAL)

09.00-09.45	ID 01	Concepts of Plaxis 2D	Brinkgreve
09.45-10.30	ID 02	Footing on elasto-plastic soil (exercise)	
10.30-10.45		Break	
10.45-11.15		Footing on elasto-plastic soil (exercise)	
11.15-12.00	ID 03	Structural elements in Plaxis	Brinkgreve
12.00-13.00		Lunch	
13.00-13.45	ID 04	Meshing and initial stresses	Brinkgreve
13.45-14.45	ID 05	Warehouse foundation (exercise)	
14.45-15.15	ID 06	Limburg excavation (exercise)	
15.15-15.30		Break	
15.30-16.30		Limburg excavation - continued (exercise)	
16.30-17.00	ID 07	Modelling groundwater in Plaxis	Brinkgreve
17.00-18.00	ID 08	Construction of an embankment (exercise)	

DAY 1, SOIL BEHAVIOUR

08.45-09.00	CG 01	Opening	
09.00-09.45	CG 02	Elasticity and plasticity	Springman
09.45-10.45	CG 03	Mohr Coulomb model	Springman
10.45-11.00		Break	
11.00-12.00	CG 04	The Hardening Soil and HSsmall model	Brinkgreve
12.00-13.00	CG 05	Parameter determination from laboratory tests (Soil test facility demo + exercise part 1)	Brinkgreve
13.00-14.00		Lunch	
14.00-14.45	CG 06	Undrained behaviour	Brinkgreve
14.45-15.30	CG 07	The Soft Soil model	Brinkgreve
15.30-15.45		Break	
15.45-17.00		Parameter determination from laboratory tests (exercise part 2)	

DAY 2, SLOPES, DAMS AND EMBANKMENTS

09.00-09.45	CG 08	Slopes, dams and embankments	Springman
09.45-10.30	CG 09	Reinforced slopes	
10.30-10.45		Break	
10.45-11.30	CG 10	Safety factors and design approaches in Plaxis	Brinkgreve
11.30-12.45	CG 11	Geogrid reinforced embankment (exercise)	
12.45-13.45		Lunch	
13.45-14.30	CG 12	Geotechnical aspects of river levee design	Mayor/Morales
14.30-15.15	CG 13	Modelling groundwater flow in Plaxis	Brinkgreve
15.15-15.30		Break	
15.30-17.00	CG 14	Reservoir impoundment (exercise)	

DAY 3, EXCAVATIONS AND NUMERICAL ASPECTS

09.00-09.45	CG 15	Non-linear calculations	Brinkgreve
09.45-10.30	CG 16	Modelling excavations in Plaxis	Brinkgreve
10.30-10.45		Break	
10.45-11.30	CG 17	Geometry selection	Brinkgreve
11.30-13.00	CG 18	Excavation and dewatering (exercise)	
13.00-14.00		Lunch	
14.00-14.45	CG19	Deep excavations	Schweiger
14.45-15.30	CG20	Validation of numerical models	Brinkgreve
15.30-15.45		Break	
15.45-17.00	CG21	Undrained excavation (exercise)	
17.00		Closure	

DAY 4, FOUNDATIONS AND 3D MODELLING (OPTIONAL)

09.00-10.00	CG 22	Deep foundations	Schweiger
10.00-10.45	CG 23	Getting started with PLAXIS 3D	Brinkgreve
10.30-10.45		Break	
10.45-12.30	CG 24	Shallow foundation (3D exercise)	
12.30-13.30		Lunch	
14.00-15.00	CG25	Embedded piles in PLAXIS	Schweiger
15.00-15.30	CG26	Deep foundations – case histories	Schweiger
15.30-15.45		Break	
15.45-17.00	CG27	Piled-raft foundation (3D exercise)	
17.00		Closure	