

Sapienza Università di Roma - Ruhr-Universität Bochum

Geotechnical Workshop

Session 1: Mechanised Tunnelling

- 10:00 Introduction (S. Rampello)
- 10:15 Interaction Modelling in Mechanised Tunnelling (T. Schanz)
- 11:15 Tunnelling-induced damage in masonry structures (A. Amorosi)
- 11:40 Tunnelling-induced settlements in reinforced concrete structures (D. Boldini)
- 12:05 Soil-structure interaction due to tunnelling in soft ground, an equivalent solid approach (N. Losacco)
- 12:30 Mitigation of ground movements induced by tunnelling using diaphragm walls (L. Masini)

Session 2: Constitutive Modelling

- 14:00 Bounding Surface Plasticity models (T. Barciaga)
- 15:00 Elasticity, a crucial ingredient in soil modelling (A. Amorosi)
- 15:25 Cyclic behaviour of sands: a critical review of the Dafalias & Manzari model (F. Rollo)

Coffee Break

- 16:10 Multidirectional cyclic behaviour by Hardening Soil Model with Small Strain (A. di Lernia)
- 16:35 Masonry modelling by a modified version of the Jointed Rock Model (W. Lasciarrea)
- 17:00 Some remarks on the formulation of Severn Trent constitutive model (G. Rotisciani)
- 17:25 Implementation of a bounding surface constitutive model to predict the long term behaviour of excavations in structured clays (F. Bertoldo)
- 17:50 Conclusions

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