

Software application in Tunnelling

Seminar Objective: comprehensive education and training of Tunnel Engineers focusing on the present state-of-the-art Software-controlled Methods in virtually all fields of Tunnel Engineering and Construction.

Tentative Programme

Day 1

Session1	: Overview and General Aspects
09.00 - 09.45 09.45 - 10.15 10.15 - 10.45 10.45 - 11.30 11.30 - 12.00 12.00 - 12.30 12.30 - 14.00	: Mathematical Basics for Software Application: Numerical Computation in Future Tunnelling: Tunnelling with Eurocode Application
Session 2	: Use of Software in Tunnel Engineering
14.00 – 14.30 14.30 – 15.30	: Deformation Behaviour and Trend Lines

14.30 – 15.30 : Lining Computation

15.30 – 16.00 : Coffee break

16.00 – 16.45 : Alignment and Overbreak Survey 16.45 – 17.30 : Risk Management & Safety Survey

17.30 – 18.00 : Monitoring & Interpretation

Day 2

Session 3	: Use of Software in Tunnel Construction
09.00 - 09.20 09.20 - 09.40	: Geotechnical Survey as Basis for Engineering: Profiling Survey
09.40 - 10.00	: Monitoring
10.00 – 10.30 10.30 – 11.00	: Automation of Tunnel Equipment: Coffee break
11.00 – 11.45 11.45 – 12.30	: Case Study 1: Conventional Tunnelling : Case Study 2: TBM Tunnelling
12.30 – 14.00	: Lunch

Session 4 : Workshops

14.00 – 14.40 : FE Analysis 2 and 3 Dimensional Simulation

14.45 – 15.25 : Survey of Risk and Safety

15.30 – 16.10 : Groundwater Simulation & Dewatering

16.15 – 16.55 : Monitoring

17.30 - 18.00 : Summary and Closing