

Long Tunnels at Great Depth

Objective: Benchmarking and sharing experience on construction of long tunnels around the world

Day 1

Session 1: Introduction - The Mont Cenis Base Tunnel project

- 09.30 – 09.45 Welcome and Opening
- 09.45 – 10.15 Overview of long and deep tunnels around the world
- 10.15 – 11.00 Mont Cenis Base Tunnel project: specific risks to be encountered
- 11.00 – 11.45 Case history: Saint Martin La Porte access tunnel – specific solutions chosen to face swelling rock
- 11.45 – 12.30 Case history: La Maddalena exploratory tunnel

12.30 - 14.00: Lunch

Session 2: Sharing experience on technical issues

- 14.00 – 15.00 Specific Technical problems encountered in long and deep tunnels:
- 15.00 – 15.45 Experience from a recent Asian deep tunnel
- 15.45 – 16.00 Questions and answers
- 16.00 - 16.30 Coffee Break
- 16.30 – 17.30 Large and deep caverns- Stress release issues
- 17.30 – 18.15 Logistics Issues: Coordination of Jobsites, Mucking, Supplying etc.
- 18.15 – 18.30 Questions and answers

Day 2

Session 3: Financial and Contractual Issues

- 09.00 – 09.45 Risk management during construction
- 09.45 – 10.30 Underground construction contracts – overview of worldwide practice
- 10.30 - 11.00 Coffee Break
- 11.00 – 12.00 Experience from Gotthard – Management of risks, cost contingency and lessons learnt
- 12.00 – 12.45 Round Table: *Contractual issues – How to manage disputes?*

12.45 - 14.00: Lunch

Session 4 : Tunnel Owner's Specific Concerns

- 14.00 – 14.45 Lessons of Brenner regarding environmental impacts and communication around the project
- 14.45 – 15.30 Health and safety during the management of the project
- 15.30 - 16.00 Coffee Break
- 16.00 – 16.45 Communication, Mediation, Relation with public authorities
- 16.45 - 17.30 Round Table: *Management of very large projects*
- 17.30 - 18.00 Closing remarks