





Training session 'Mechanized Tunnelling' 23-24 March 2015 Venue: to be precised Santiago – Chile

Objective: this course aims to provide general information to young engineers & to update tunnelling professionals on topics related to Mechanised Tunnelling. The course topics are presented in such a way to build the basic concepts of Mechanized Tunnelling necessary for professionals.

Tentative Programme

Monday 23 March 2015 - Session 1: Introduction & Overview

09.00 - 09.15: Welcome & Opening

09.15 - 09.45: Situation of Mechanised Tunnelling in Chile

09.45 - 10.30: Advantages & disadvantages of Mechanized Tunnelling

10.30 - 11.00: Coffee break

11.00 - 11.45: State of the Art by ITA WG14 animateur

11.45 – 12.30: Selection criteria for TBMs in Long Rock Tunnels Conditions

12.30 - 14.00: Lunch break

Session 2: Improvement & Support systems

14.00 - 14.45: Segmental Lining

14.45 - 15.30: Backfilling Grouting

15.30 - 16.00: Coffee break

16.00 - 16.45: Ground Improvement

16.45 - 17.30: Soil Conditioning & Slurry Operation

17.30 – 18.00: Precast Tunnel Segments with Fiber Reinforced Concrete

18.00 - 18.30: Questions & Answers

24 March 2015 - Session 3: Operation

09.00 - 09.45: Cutting tools

09.45 - 10.30: Face support & Compressed air work

10.30 - 11.00: Coffee break

11.00 – 11.45: Risk & Safety Management

11.45 – 12.30: Environment: Mucking, Water, Chemistry & Noise

12.30 - 14.00: Lunch break

Session 4: Management & Examples

14.00 - 14.45: Tunnel & Site logistics

14.45 - 15.30: Selection of TBMs - Case histories

15.30 - 16.00: Coffee break

16.00 - 16.45: Example 1: Rock tunnelling

16.45 – 17.30: Example 2: Soft Ground tunnelling for Subway

17.30 - 18.00: Questions & Answers - Closing remarks