

Training session 'Mechanized Tunnelling'

23-24 March 2015

**Venue: Raddison Hotel - Vitacura Avenue 2610, Las condes
Santiago de 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.

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 – A. Gomes
09.45 – 10.30: Advantages & disadvantages of Mechanized Tunnelling – L. Babendererde
10.30 – 11.00: Coffee break
11.00 – 11.45: State of the Art in mechanised tunnelling - L. Babendererde
11.45 – 12.30: Selection criteria for TBMs in Long Rock Tunnels Conditions – F. Amberg (Presented by K. Grossauer)
12.30 – 14.00: Lunch break

Session 2: Improvement & Support systems

14.00 – 14.45: Segmental Lining – P. Grasso
14.45 – 15.30: Backfilling Grouting – MAPEI – H. Claussen & A. Boscaro
15.30 – 16.00: Coffee break
16.00 – 16.45: Ground Improvement – D. Peila
16.45 – 17.30: Soil Conditioning & Slurry Operation – D. Peila
17.30 – 18.00: Precast Tunnel Segments with Fiber Reinforced Concrete – Beckaert – J.M. Espinosa
18.00 – 18.30: Questions & Answers

24 March 2015 – Session 3: Operation

09.00 – 09.45: Cutting tools & Cutter Head Design – W. Burger
09.45 – 10.30: Chamber Access & Compressed Air Work – W. Burger
10.30 – 11.00: Coffee break
11.00 – 11.45: Risk & Safety Management – P. Grasso
11.45 – 12.30: Ground Investigations for TBM Projects – Geoconsult – C.G. Höfer - Öllinger
12.30 – 14.00: Lunch break

Session 4: Management & Examples

14.00 – 14.45: Tunnel & Site logistics – VINCI – J.L. Audureau
14.45 – 15.30: Selection of TBMs – Case histories – F. Amberg (Presented by K. Grossauer)
15.30 – 16.00: Coffee break
16.00 – 16.45: Example 1: Rock tunnelling: Big challenges & Record Performances on Recent Hard Rock Projects – Robbins – L. Home
16.45 – 17.30: Example 2: Soft Ground tunnelling for Subway – Herrenknecht – F. Avila
17.30 – 18.00: Questions & Answers – Closing remarks