



Training Course Baku
Wednesday 12 – Thursday 13 September 2012
Azerbaijan University of Architecture and Construction
5, A. Sultanova str. AZ 1073 Baku
Tunnelling in Urban Areas
Tentative Programme

Objectives of the Course:

The objective of the course is to present to students and young professionals the design and construction approaches for tunnelling in urban areas.

Wednesday 12 September 2012

Session 1: General

08.00 - 08.30:	Welcome and Opening – Objectives of the Course	AzTA and ITA
08.30 - 09.00:	Why Go underground in Urban Areas	O. VION
09.00 - 10.00:	General Aspects of Urban Tunnelling	I.LEE
10.00 – 10.30:	Coffee break	

Session 2: Conventional Tunnelling

10.30 - 11.30:	Excavation methods and basic aspects of design (soil and rock masses)	H. WAGNER
11.30 - 12.30:	Ground Reinforcement	H. WAGNER
12.30 - 14.00:	Lunch	

Session 3: Mechanized Tunnelling in Soft Ground

14.00 - 15.00:	Slurry Shield	L. BABENDERERDE
15.00 - 16.00:	EPB and Soil Conditioning	L. BABENDERERDE
16.00 - 16.30:	Coffee break	

Session 4: Risk Management

16.30 – 17.30:	Risk Analysis for Urban Tunnels	S. ESKESEN
17.30 – 18.30:	Examples for Tunnels Induces Ground Movement & Effects to Buildings & Structures	B. YUN



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Session 5: Support Design

08.00 - 09.00:	Segment Lining Design	L. BABENDERERDE
09.00 - 10.00:	Lining Design for Conventional Tunnelling: (Sprayed Concrete – Waterproofing – Final Lining)	H. WAGNER
10.00 - 10.30:	Coffee break	

Session 6: Special Aspects

10.30 - 11.30:	Site Investigation	B.YUN
11.30 - 12.30:	Monitoring of the surface & of the machine	H. WAGNER

Session 7: Case Histories and Operation

14.00 - 14.45:	Mechanized Tunnelling 1	B.YUN
14.00 - 15.30:	Mechanized Tunnelling 2	K. BÄPPLER
15.30 - 16.00:	Coffee break	
16.00 - 16.45:	Conventional Tunnelling	J.D. ARNAL
16.45 - 17.30:	Safe Operation in Urban Transport Tunnels	M. DEFFAYET
17.30 - 18.30:	Questions/Answers & Closing	

Each 60 minutes-lecture will be divided into 45' presentation and 15' discussion.