

**PRE-CONGRESS EDUCATION TRAINING COURSE
22-23 MAY, 2009**

VENUE:
BME (Budapest University of Technology and Economics)
Different venue from the World Tunnel Congress (WTC)

REGISTRATION FEES:	
For young engineers (in advance)	216 €
On site payment	240 €
Age limit for young engineers: max. 30 yrs	
For any other persons (in advance)	240 €
On site payment	264 €

For on-line registration please check the website at

www.wtc2009.org

(PRE-Congress Educational Training Course and WTC has a joint on-line registration system. Please choose the appropriate registration category)

Official language: English
E-mail: secretariat@wtc2009.org

**5th ITA/AITES
TRAINING COURSE**

**PRE-CONGRESS
EDUCATION**

**22-23 MAY 2009
Budapest, Hungary**



5th ITA/AITES TRAINING COURSE - Budapest, 22 and 23 May, 2009

Risks during Construction of Urban Tunnels in Soft Ground

Venue: Budapest University of Technology and Economics, BUILDING A, Budapest, Egrý József street. 20-22., XI. district

Scientific Coordinators: D. Peila - ITA WG 18 Animateur; A. Assis - ITA CET President; M. Thewes - ITA Executive Council

Chairman : M. Thewes

Day	Topic	Lecturer/s	confirmed	ITA Position	t. [min]	Start-Time	
MAY 22	morning	Opening Ceremony: Rector of the BME (TU Budapest) together with ITA-CET President	G. Peceli, A. Assis	✓		30	10:00
		Soil investigation: methods and classification systems for conventional and TBM drives	I.-M. Lee/ G.-C. Cho	✓	ITA ExCo	40	10:30
		Coffee Break				15	11:10
		Design criteria for conventional linings in soft ground	F. Amberg	✓	PS Swiss Tunnel Consultants	40	11:25
		Discussion			10	12:05	
		Lunch Break			60	12:15	
	afternoon	High Performance Sprayed Concrete for Temporary and Final Linings/Sprayed Concrete for Underground Support	W. Aldrian / T. Celestino	✓	PS BASF / ITA WG15	40	13:15
		Water proofing of conventional tunnels and stations	U. Weber	✓	PS Sika	40	13:55
		Design criteria for segmental linings in soft ground: segments + waterproofing	F. Gruebl	✓	WG 18	40	14:35
		Coffee Break				15	15:15
		Tunnel Safety in Design and Operation: Road and Rail Tunnels	R. Leucker	✓	ITA-COSUF	40	15:30
		Monitoring and mitigation measures	P. Grasso / V. Guglielmetti	✓	ITA ExCo	40	16:10
		Discussion				10	16:50
		Welcome Reception (venue place)					17:30
MAY 23	morning	Risk management in international tunnelling projects	E. Leca / S. Eskesen	✓	WG 2 Anim / ITA ExCo	35	9:00
		Soil conditioning and Backfill Grout	D. Peila / R. Schulkins	✓	WG 18 / PS Mapei	35	9:35
		Coffee Break				15	10:10
		Soft Ground TBM Technology - Large Diameters: Special solutions and case histories	K. Bächler	✓	PS Herrenknecht	35	10:25
		Soft Ground TBM Technology - EPB machines: Special solutions and case histories	D. Slinchenko	✓	PS LOVAT	35	11:00
		Soft Ground TBM Technology - Slurry shields: Special Solutions and case histories	H. Yamamoto	✓	PS STAJ	35	11:35
		Discussion			10	12:10	
		Lunch Break			60	12:20	
	afternoon	Risk during the construction of the Budapest metro in soft ground	Gy. Posgay / M. Müller	✓		35	13:20
		Conventional tunnelling: stability problems and countermeasures	R. Galler	✓	WG 19	35	13:55
		Compressed air in Tunnelling: requirements and lessons learnt / Ground freezing in Tunnelling: requirements and lessons learnt	K. Grimm / H. Weigl	✓	PS Bilfinger Berger	35	14:30
		Coffee Break				15	15:05
		TBM drives in soft ground: face stability and annular grouting	M. Thewes	✓	ITA ExCo	35	15:20
		TBM drives in soft ground: logistics and wear - problems and solutions	U. Wadepohl	✓	PS Hochtief	35	15:55
	Discussion and conclusion			15	16:30		

(PS = Prime Sponsor of ITA)