

MAIN DISCUSSION TOPICS - SESSION OVERVIEW

TOPIC 01: Risk analysis, finances and contractual relationships	
Presentations:	
Topic 01/1: May 25, 16:00 - 18:00	BARTÓK HALL
Topic 01/2: May 27, 16:00 - 17:30	PÁTRIA HALL
TOPIC 02: Geological and geotechnical investigations	
Presentations:	
Topic 02/1: May 26, 14:00 - 15:40	LEHÁR HALL
Topic 02/2: May 27, 10:50 - 12:30	PÁTIRA HALL
Topic 02/3: May 27, 16:00 - 17:30	LEHÁR HALL
TOPIC 03: Tunnelling in soft ground with shotcrete method	
Presentations:	
Topic 03/1: May 25, 16:00 - 18:00	PÁTRIA HALL
Topic 03/2: May 27, 08:30 - 10:30	BARTÓK HALL
Topic 03/3: May 27, 10:50 - 12:30	LEHÁR HALL
Topic 03/4: May 27, 14:00 - 15:40	BRAHMS HALL
TOPIC 04: Cut- and cover constructions	
Presentations:	
Topic 04: May 27, 08:30 - 10:30	PÁTRIA HALL
TOPIC 05: Mechanized tunnelling	
Presentations:	
Topic 05/1: May 25, 14:00 - 15:40	LEHÁR HALL
Topic 05/2: May 26, 14:00 - 15:40	PÁTRIA HALL
Topic 05/3: May 27, 14:00 - 15:40	PÁTRIA HALL
Topic 05/4: May 27, 16:00 - 17:30	BARTÓK HALL
TOPIC 06: Monitoring, settlement control	
Presentations:	
Topic 06/1: May 26, 16:00 - 18:00	LEHÁR HALL
Topic 06/2: May 27, 10:50 - 12:30	BARTÓK HALL
Topic 06/3: May 27, 14:00 - 15:40	LEHÁR HALL
Topic 06/4: May 27, 16:00 - 17:30	MOZART HALL
TOPIC 08: Miscellaneous (storing facilities, research and development etc...)	
Presentations:	
Topic 08/1: May 25, 16:00 - 18:00	LEHÁR HALL
Topic 08/2: May 26, 16:00 - 18:00	BRAHMS HALL
Topic 08/3: May 27, 08:30 - 10:30	BRAHMS HALL
TOPIC 09: Architectural design, structural design and management policy	
Presentations:	
Topic 09/1: May 25, 14:00 - 15:30	BARTÓK HALL
Topic 09/2: May 26, 16:00 - 18:00	PÁTRIA HALL
Topic 09/3: May 27, 08:30 - 10:30	LEHÁR HALL
TOPIC 10: City, tunnel, environment and safety	
Presentations:	
Topic 10/1: May 25, 14:00 - 15:30	PÁTRIA HALL
Topic 10/2: May 26, 16:00 - 18:00	BARTÓK HALL
Topic 10/3: May 27, 10:50 - 12:30	MOZART HALL
Topic 10/4: May 27, 14:00 - 15:40	BARTÓK HALL
TOPIC 11: Maintenance, repair and rehabilitation	
Presentations:	
Topic 11/1: May 26, 14:00 - 15:40	BRAHMS HALL
Topic 11/2: May 27, 10:50 - 12:30	BRAHMS HALL
TOPIC 12: Special tunnels (long tunnels)	
Presentations:	
Topic 12/1: May 26, 14:00 - 15:40	BARTÓK HALL
Topic 12/2: May 27, 08:30 - 10:30	MOZART HALL
Topic 12/3: May 27, 14:00 - 15:40	MOZART HALL

WTC 2009 - DETAILED PROGRAMME OF THE TECHNICAL SESSIONS

update of 21 May 2009

MONDAY, 25 MAY, 14:00-15:40

TOPIC 10/1, PATRIA HALL			
Chairman: KOCSONYA, Pál		Co-Chairman: BAI, Yun	
ID No	Lecturer	Country	Paper
O-10-01	BALOGH, Zsolt	Hungary	The 4th metro line of Budapest is under construction
O-10-02	GYORGY, Pál	Hungary	Management of the valuable underground space as primary aspect at urban planning and architectural/Structural design of urban tunnels
O-10-03	EANDI, Simone	Italy	Bologna metro line 1: underground station in a complex area
O-10-04	TOLPPANEN, Pasi	Finland	New rail connection to the city centre of Helsinki
O-10-05	CHOMOVA, Viktoria	Slovakia	Tunnel interconnection of the TEN-T railway corridors in Bratislava, the capital of the Slovak Republic
O-10-06	BOSCH, Johan	The Netherlands	Small incident, big consequences: leakage of a building pit causes major settlement of historical houses. Amsterdam North-South metro line project.

CHANGE!

TOPIC 09/1, BARTÓK HALL			
Chairman: PETHŐ, Csaba		Co-Chairman: LEBLAIS, Yann	
ID No	Lecturer	Country	Paper
O-09-01	GOTZ, Vollmann	Germany	Integrated escape galleries - an alternative approach for road tunnel cross sections
O-09-05	RADONCIC, Nedim	Austria	Expert system for tunnel pre-design
O-09-03	KOLIC, Davorin	Austria	Segmental lining tolerances and imperfections
O-09-04	YOON, Woon Sang	Korea	3D dynamic geo-modeling system using mobile units during tunnel excavation
O-09-10	VERGEINER, Ralf	Austria	The Tauern tunnel - the two extremes between cohesionless gravel and hard rock with overburden of more than 1.000 m

CHANGE!

TOPIC 05/1, LEHAR HALL			
Chairman: LAKATOS, Ervin		Co-Chairman: LAMONT, Donald	
ID No	Lecturer	Country	Paper
O-05-01	OGGERI, Claudio	Italy	Monitoring of EPBM tunnelling at LOT 2 of turin metro
O-05-02	LANGMAACK, Lars	Switzerland	The truth about EPB soil conditioning - do's and don'ts
O-05-03	BOSSHARD, Martin	Switzerland	The Zurich cross rail
O-05-04	KOHLER, Hans	Austria	The new Unterinntal Railway - Section H3-4
O-05-05	OCAK, Ibrahim	Turkey	The performance of two EPB machines in istanbul metro tunnel drivages in soft and shallow ground
O-05-06	CELADA TAMAMES, Benjamin	Spain	Prediction of cutter wear using RME

MONDAY, 25 MAY, 16:00-18:00

TOPIC 03/1, PÁTRIA HALL		Chairman: GRESCHIK, Gyula Co-Chairman: VUILLEUMIER, François	
ID No	Lecturer	Country	Paper
O-03-01	ZIEGLER, Martin	Germany	Optimization of artificial ground freezing applications for tunneling subject to water seepage
O-03-02	CHOTIDILOK, Pisut	Thailand	Ground improvement design and technique for supporting the construction of Bangkok blue line south extension subway
O-03-03	HÖFLE, Roger	Germany	Time depending stability of tunnel faces
O-03-04	ROCHA, Hugo	Brazil	Design and excavation aspects for the new Alto do Ipiranga tunnel station for the Sao Paulo metro
O-03-05	BARTON, Nick	Norway	The main causes of the Pinheiros cavern collapse
O-03-15	CHO, Gye-Chun	Korea	Effect of the spatial variability of shotcrete and soft ground on the plastic region around a tunnel

TOPIC 01/1, BARTÓK HALL		Chairman: SMITH, Martin Co-Chairman: DIX, Arnold	
ID No	Lecturer	Country	Paper
O-01-01	FOGARASI, Steve	Canada	Risk factors and risk sharing at tenders and contracts of tunnelling and underground projects
O-01-02	YAN, Jinxiu	China	Risk evaluation and control of Yesanguan railway tunnel on Yiwan railway line, China
O-01-03	SANDER, Philip	Austria	Risk management for large infrastructure projects using probabilistic methods
O-01-04	BRUDERER, Werner	Switzerland	Bypass flims / CH: karst risk and chances
O-01-05	ROZEK, James	Australia	Geotechnical baseline report as an underground construction risk management tool
O-01-07	MARCHER, Thomas	Austria	Stability analyses of tunnels - an approach using random set method
O-01-06	SHIMODA, Akifumi	Japan	Research on risk analysis of fires in expressway tunnels in Japan

TOPIC 08/1, LEHÁR HALL		Chairman: FRIGYIK, László Co-Chairman: UMNOV, Vitaly	
ID No	Lecturer	Country	Paper
O-08-01	KELETI, Imre	Hungary	The first tunnels of the Hungarian motorway system
O-08-02	SHIN, Hee-Soon	Korea	Current status of tunnel construction in Korea
O-08-03	OH, Beon Jin	Korea	Optimal pillar width of twin tunnels in horizontal jointed rocks
O-08-04	KOOIJ, M.	The Netherlands	The last development in the Netherlands to control extensive tunnel fires: The Steamexfire
O-08-05	KUKKONEN, Juha	Finland	Experiences of the use of new generation drill plan design software in practice. Effects on excavation quality and total cost of excavation.

TUESDAY, 26 MAY, 14:00-15:40

TOPIC 05/2, PÁTRIA HALL			
		Chairman: KLADOS, Gusztáv	Co-Chairman: FUKUMOTO, Katsuji
ID No	Lecturer	Country	Paper
O-05-07	BÄPPLER, Karin	Germany	Mechanized tunnelling for new, highly efficient infrastructures for traffic and supply systems
O-05-08	BILGIN, Nuh	Turkey	Factors affecting the economy and the efficiency of metro tunnel drive with two TBM's in Istanbul in a very fractured rock formation
O-05-09	CHAIWONGLEK, Chat	Thailand	Shield's three-zones mechanism approach for predicting ground deformations
O-05-10	IZUMI, Chitoshi	Japan	A review of Delhi metro tunnel construction with 14 EPB shield TBMs

TOPIC 12/1, BARTÓK HALL			
		Chairman: VAGÁCS, József	Co-Chairman: SEINGRE, Gérard
ID No	Lecturer	Country	Paper
O-12-01	BUSILLO, Aristodemo	Italy	Brenner basis tunnel project - the exploratory and service tunnel
O-12-02	SCHLUMPF, Jürg	Switzerland	Validation of sprayed concrete accelerators in relation to job safety, technical, commercial and ecological performance and the selection criteria for the construction of the Gotthard base tunnel
O-12-03	GRANTZ, WALTER C	United States	Bosphorus rail tunnel: unique construction techniques
O-12-04	KOVARI, Kalman	Switzerland	Design methods with yielding support in squeezing and swelling rocks

TOPIC 02/1, LEHÁR HALL			
		Chairman: HORVÁTH, Tibor	Co-Chairman: GROV, Eivind
ID No	Lecturer	Country	Paper
O-02-01	PEILA, Daniele	Italy	Soil conditioning of cohesionless soil for EPBS: laboratory research and on-site application.
O-02-02	SZILVAGYI, László	Hungary	Geological and geotechnical conditions of the first Hungarian motorway tunnels on M6 Szekszárd - Bóly project
O-02-03	BIANCHI, Gianpino W	Italy	Determination of reliability in geological forecasting for tunnel projects: the method of the R-index and its application on two case studies
O-02-04	OKAZAKI, Kenji	Japan	Geotechnical estimation of large overburden tunnel ground by combination of HEM and CSAMT
O-02-05	JOHN, Max	Austria	Considerations of swelling for the second tube Pfändertunnel
O-02-06	TORRES PRADA, Adolfo Camillo	Colombia	Study of settlements induced by TBM in soft grounds in Bogotá - Colombia

TOPIC 11/1, BRAHMS HALL			
		Chairman: POSGAY, György	Co-Chairman: RUSSELL, Henry
ID No	Lecturer	Country	Paper
O-11-01	SCABBIA, André	Brazil	Brazilian road tunnels - Proposal for testing and inspecting according to Directive 2004/54/EC
O-11-02	MODETTA, Flavio	Switzerland	Cost-effective rehabilitation of masonry lined rail tunnels with sprayed concrete and sprayable waterproofing membrane
O-11-03	MASHIMO, Hideto	Japan	Experimental research on the effect of inner reinforcement on damaged tunnel linings
O-11-04	MORITZ, Ralf	Germany	Reduction of tunnel maintenance costs by environmentally friendly water hardness stabilisation
O-11-05	IGLESIAS FIGUEREDO, Erik	Switzerland	Influence of porosity and stiffness of specimen on the fire resistance of PP fiber mixed concrete
O-11-06	MELO CABRAL, Miguel	Portugal	Rehabilitation of the Rossio tunnel in Lisbon - Portugal

TUESDAY, 26 MAY, 16:00-18:00

TOPIC 09/2, PÁTRIA HALL		Chairman: BALOGH, Zsolt	Co-Chairman: LECA, Eric
ID No	Lecturer	Country	Paper
O-09-02	ROSAS SANCHEZ, Leonardo	Austria	Risk management using a Game Model Tunnel Collapse
O-09-06	KOREJCIK, Jan	Czech Republic	Prague metro line A extension - design of the first section
O-09-07	LUEPRASERT, Prateep	Thailand	3-D fea of NATM excavation for Bangkok MRT blue line south extension
O-09-08	POLI, Andrea	Italy	Low overburden underpasses in urban areas without traffic limitations - Some examples
O-09-09	YOKOTA, Yasuhiro	Japan	Numerical approach for simple estimation of reinforcing effects of facebolts

CHANGE!

TOPIC 10/2, BARTOK HALL		Chairman: FOGARASI, István	Co-Chairman: LEE, In-Mo
ID No	Lecturer	Country	Paper
O-10-07	THEWES, Markus	Germany	Life cycle costing as a decision-making aid to the planning of underground infrastructure
O-10-08	DELFGAUW, Steven	The Netherlands	Jetgrout strut for deep station boxes of the north/south metro line Amsterdam - Design and back analysis
O-10-09	KIM, Hong-Moon	Korea	Loads on pillar and block displacement during two-arch tunnel excavation in jointed rock mass
O-10-10	KOBLER, Thomas	Switzerland	Northern bypass of the city of Zurich: Third tube Gubrist tunnel
O-10-11	FEHERVARI, Sándor	Hungary	Effect of the concrete's component on the heat shock bearing capacity of tunnel linings
O-10-12	CHU, Freda	Hong Kong	A systematic approach to construction risk assessment for the drainage tunnel of Kai Tak transfer scheme of Hong Kong
O-10-13	KOSHIMA, Akira	Brazil	Test tunnel in Barcelona (Spain) for the feasibility of a 360° and frontal septum jet grouted treatment .

TOPIC 06/1, LEHÁR HALL		Chairman: DELI, Árpád	Co-Chairman: EHRBAR, Heinz
ID No	Lecturer	Country	Paper
O-06-01	GALLER, Robert	Austria	The new guideline - NATM - the Austrian way of conventional tunnelling
O-06-02	UNLUTEPE, Ahmet	Turkey	Predicted and observed ground deformations due to TBM tunnel excavations on the Izmir metro project
O-06-03	HONGJIN, Jiang	China	Time-dependant settlement vary in soils around a slurry-shield
O-06-04	ROZEK, Jan	Czech Republic	Example of excavation of a shallow city ring tunnel in soft ground by the observational method - expectations and reality
O-06-05	ANGISTALIS, Georgios	Greece	Practical discussion on the interpretation of geomonitring measurements and their influence on tunnel support design, a case study

TOPIC 08/2, BRAHMS HALL		Chairman: SZÜCS, István	Co-Chairman: ROHDE, Jan
ID No	Lecturer	Country	Paper
O-08-06	GREEN, Wayne	Canada	How to deliver your project on time - An owners procurement strategy
O-08-07	DUIJVESTIJN, Bart	The Netherlands	Strategic maintenance planning for tunnels optimizing tunnel safety
O-08-08	CHOW, Weng Lee	Singapore	Design of segmental tunnel lining in an earthquake zone
O-08-09	PLIZZARI, Giovanni A.	Italy	Parametric study on tunnel linings in fiber reinforced concrete combined with traditional reinforcement
O-08-10	NASRI, Verya	United States	Continuum and discontinuum modeling for the design of shallow caverns in jointed Manhattan schist

WEDNESDAY, 27 MAY, 8:30-10:30

TOPIC 09/3, LEHÁR HALL		Chairman: SOÓS, Gábor Co-Chairman: YOO, Chungsik	
ID No	Lecturer	Country	Paper
O-09-11	MONTENEGRO PALMERO, Natalia & PELÁEZ GONZÁLEZ, Mario	Spain	Pressure wave measurements inside tunnels of the Spanish railway and inside a high velocity streamlined test train
O-09-12	KIRSCH, Ansgar	Austria	Experimental and numerical investigation of the face stability of shallow tunnels in sand
O-09-13	VAN EMPEL, Nikolaas	The Netherlands	Innovative joint design bored tunnels north/south metroline Amsterdam
O-09-14	FORGO, Lea	Hungary	A case study in advanced numerical modelling in design: Heathrow Airport transfer baggage tunnel, UK

TOPIC 03/2, BARTÓK HALL		Chairman: BENKOVICS, István Co-Chairman: ISHIDA, Atsumu	
ID No	Lecturer	Country	Paper
O-03-06	BRANDL, Johann	Austria	Metro Delhi Airport link - Large diameter NATM tunnelling under various ground conditions
O-03-07	CELADA TAMAMES, Benjamin	Spain	Construction of an urban tunnel in loose and inhomogeneous soils under water table
O-03-08	QUICK, Hubert	Germany	Urban tunnelling projects in soft soil conditions
O-03-09	IURA, Tomomi	Japan	Economical and widely- applicable new construction method for shallow tunnels in loose sandy ground with high groundwater level
O-03-10	VOLKMANN, Guenther M.	Austria	Back-calculated interacting loads on pipes of pipe umbrella support systems
O-03-11	LIKAR, Jakob	Slovenia	Construction of twin road tunnel Cenkova - First tunnel with intermediate reinforced concrete Waa in Slovenia

TOPIC 04, PÁTRIA HALL		Chairman: ZSIGMONDI, András Co-Chairman: BABER, Jonathan	
ID No	Lecturer	Country	Paper
O-04-01	FRIEDRICH, Gyula	Hungary	Construction of Kalvin ter and Bocskai ut stations Metro4 Budapest
O-04-02	BILFINGER, Werner	Brazil	Rio de Janeiro subway: Safe and economic cut and cover construction using elliptical shafts
O-04-03	AYE, Zaw Zaw	Thailand	Diaphragm wall support deep-excavations in Bangkok
O-04-04	KÁNTOR, Ervin	Hungary	Challenges of the construction at Fővám station on Budapest metro line 4.
O-04-05	HWANG, Chang Hee	Korea	Behavior of the cut-and-cover tunnel in unsymmetrical Condition
O-04-06	SIGL, Oskar	Singapore	Temporary earth retaining Structures in Perth's CBD
O-04-07	KOVACS, Árpád	Hungary	Metro Line 4, Rákóczi tér station

TOPIC 12/2, MOZART HALL		Chairman: KOVÁRI, Kálmán	Co-Chairman: TBD
ID No	Lecturer	Country	Paper
O-12-05	RENNEN, Markus	Iceland	Challenges in tunnelling at the Icelandic Kárahnjúkar hydro-electric Project and solutions by use of advanced gyroscope measurements
O-12-06	NYÍREGYHÁZI, Tamás	Hungary	Tunnelling on an epic scale. The Kárahnjúkar Hydroelectric project
O-12-07	SMADING, Steve	United States	Onsite assembly and hard rock tunnelling at the Jinping-II hydropower station power tunnel project
O-12-08	KIM, Sang-Hwan	Korea	A study on the groundwater management system of the liver crossing long tunnels
O-12-09	HILAR, Matous	Czech Republic	Long railway tunnels - Comparison of major projects

TOPIC 08/3, BRAHMS HALL		Chairman: KELETI, Imre	Co-Chairman: KANESHIRO, Jon
ID No	Lecturer	Country	Paper
O-08-11	HIDEG, József	Hungary	Tunneling in the low and intermediate level radioactive waste repository to be constructed at Bataapáti
O-08-12	NOVAK, Miroslav	Czech Republic	Ventilation of Prague metro
O-08-14	CHEUNG, Peter	Hong Kong	Design and planning of Lai Chi Kok transfer scheme, Hong Kong
O-08-15	GARG, Pramit	India	Environmental risk assessment and mitigation of NATM Tunneling on airport express line in New Delhi (India)
O-08-16	DE RIVAZ, Benoit	France	Durability issue for SFRC precast segment in tunnelling application

WEDNESDAY, 27 MAY, 10:50-12:30

TOPIC 03/3, LEHÁR HALL		Chairman: KÁNTOR, Ervin	Co-Chairman: TBD
ID No	Lecturer	Country	Paper
O-03-13	GRABARITS, József	Hungary	Tunnels on the Bátaszék-Bóly section of M6 motorway
O-03-14	TAHERIAN, Abdolreza	Iran	Design and construction of a soft rock cavern
O-03-16	MERKIN, V.	Russia	The efficient construction of single vault station with primary shotcrete lining used for the underground in Yekaterinburg
O-03-22	GOMES,Alexandre	Chile	Metro Santiago - Underground works of the new line 5 to Maipu

TOPIC 02/2, PÁTRIA HALL		Chairman: SZILVÁGYI, László	Co-Chairman: STERLING, Raymond
ID No	Lecturer	Country	Paper
O-02-07	RICHTER, Thomas	Germany	Geophysical investigations in advance and of the surrounding karstified rock during the construction of the "Katzenberg Tunnel" in Germany
O-02-08	SHIN, Koichi	Japan	An engineering rock mass classification to estimate rock properties, support and excavation rate
O-02-09	TÖRÖS, Endre	Hungary	Geophysical characterization of rocks for designing underground excavations
O-02-10	DOMBROWSKI, Boris	Germany	Combination of rockburst monitoring and seismic exploration ahead of the tunnel face: A new seismic concept for risk reduction
O-02-11	KOVACS, László	Hungary	In situ geotechnical and rock mechanical investigations for preparing the Hungarian L/ILW repository

TOPIC 06/2, BARTÓK HALL		Chairman: HORVÁTH, Tibor	Co-Chairman: VOGEL, M.
ID No	Lecturer	Country	Paper
O-06-06	FILLIBECK, Jochen	Germany	Shotcrete excavations for the Munich subway - Comparison of different methods of face support in settlement-prone areas
O-06-07	KALTENBACHER, Tamás	Hungary	Monitoring and analyzing the behavior of diaphragm wall in Fővám and Gellért squares deep metro stations in Budapest
O-06-08	MOCCICHINO, Marco	Italy	EPB TBM under the city centre of Vancouver: risk management and settlement control
O-06-09	AKEWANLOP, Kitti	Thailand	Ground Responses during EPB Shield Tunneling in Bangkok
O-06-10	BEZRODNYI, Konstantin	Russia	Ways to reduce the impact of metro construction in St.Petersburg on above-ground structures

TOPIC 10/3, MOZART HALL		Chairman: TBD	Co-Chairman: BROERE, Wout
ID No	Lecturer	Country	Paper
O-10-14	POSCHER, Gerhard	Austria	The 'A26 Linzer Autobahn' - Protection of the environment and tunneling in the city of Linz / Austria
O-10-15	NEUGEBAUER, Erich	Austria	A new way to tackle safety in underground operations - Roofex a new rock bolting concept for underground excavations under high stress conditions
O-10-16	LEE, Myoung-jae	Korea	A study on behavior of center pillar in 2-Arch tunnel when it is blasted
O-10-17	SERRA, Joao B.	Portugal	Risks assessment and mitigation of an urban shield tunnel demolition and consequent excavation of a branch tunnel
O-10-18	SRB, Martin	Czech Republic	Preparation and construction coordination of the slivenec tunnel on Prague ring road

TOPIC 11/2, BRAHMS HALL		Chairman: KOCSIS, István	Co-Chairman: VAN DEN BOSH, R.
ID No	Lecturer	Country	Paper
O-11-07	BUSSLINGER, Andreas	Switzerland	Aerodynamics and climate in the Loetschberg Base tunnel - Prediction and findings
O-11-08	KUSAKA, Astushi	Japan	Fundamental examination on mechanism of seismic damage of mountain tunnel
O-11-09	RODON ORTIZ, Santiago	Spain	Adaptation of the AP-6 Guadarrama tunnels to European safety regulations. Actions carried out
O-11-10	YE, Yongfeng	China	The risk and safety analysis and evaluation model study of long road tunnel operation
O-11-11	ARGHIROIU, Ovidiu	Romania	Global strategy for development and modernization of Bucharest metro transport system between 2008-2030
O-11-12	SHIMAMOTO, Keisuke	Japan	Study of prediction concerning tunnel deformation and effect of countermeasure by simulation analysis using ground strength reduction model

WEDNESDAY, 27 MAY, 14:00-15:40

TOPIC 05/3, PÁTRIA HALL		Chairman: ERTL, Hannes	Co-Chairman: BABENDERERDE, Lars
ID No	Lecturer	Country	Paper
O-05-11	SLINCHENKO, Denys	Canada	Control of ground settlement in EPB tunnelling
O-05-12	IJJIMA, Tomoya	Bulgaria	Excavation management with use of shield tunnel boring machine in rapidly changing soil conditions
O-05-13	VAN DER VLIET, Cornelis	The Netherlands	Shield tail deformations: experience, mechanics and lessons
O-05-14	SRIJUNTHONG, Pichakorn	Thailand	A study of shield operational factors on surface settlements using ANN
O-05-15	TAKAHASHI, Hiroshi	Japan	EPB shield tunneling for shallow twin tunnels under railway in operation

TOPIC 10/4, BARTÓK HALL		Chairman: TBD	Co-Chairman: ELIOFF, Amanda
ID No	Lecturer	Country	Paper
O-10-19	RYJEVSKI, Mikhail Efimovich	United Arab Emirates	Jet-grouting application for Dubai metro construction
O-10-20	IZAWA, Masayoshi	Japan	URUP (Ultra Rapid Under Pass) method - The first shield tunneling method for launching and arrival at the ground level
O-10-21	SAHARA, Fumihito	Japan	Construction of an urban arterial road tunnel by a non-open-cut method using a long pipe roof
O-10-22	MUNFAH, Nasri	United States	Safety and security of tunnels and underground facilities
O-10-23	GALVIN, Mark	Canada	Tunnels connect and protect communities

TOPIC 06/3, LEHÁR HALL		Chairman: MARTAK, Lothar	Co-Chairman: TBD
ID No	Lecturer	Country	Paper
O-06-11	FRIGYIK, László	Hungary	Description, analysis of unexpected events during the construction of the Budapest metro 4 line, lessons learnt
O-06-12	LEE, In-Mo	Korea	Reflection method of guided ultrasonic waves induced by hammer impact for integrity evaluation of rock bolts in field
O-06-13	SUNTHORNJAK, Sedtawut	Thailand	Optimized ground movement variables using field and shield operational parameters correlation
O-06-14	YOO, Chungsik	Korea	Lessons learned from case histories of tunnelling-induced groundwater drawdown and associated settlement
O-06-15	SMIRNOVA, G.O.	Russia	Ground consolidation for driving cross-passages between transport tunnels

TOPIC 12/3, MOZART HALL		Chairman: GRESCHIK, Gyula	Co-Chairman: AMBERG, Felix
ID No	Lecturer	Country	Paper
O-12-10	MICLEA, Paul C.	United States	Evolution of tunnel ventilation and safety criteria in a changing city environment
O-12-11	VUOLLE, Pasi	Finland	Water mist concept - effective choice for improving safety in road tunnels
O-12-12	PIGORINI, Andrea	Italy	The application of compensation grouting to protect a railway viaduct from tunnelling induced movements
O-12-13	SEIFERT, Nicolaus	Switzerland	Automatic fire extinction in road tunnels - State-of-the-art and practical applications
O-12-14	BARTEN, Piet	The Netherlands	Design of the Coatzacoalcos immersed tunnel

TOPIC 03/4, BRAHMS HALL		Chairman: THOMAS, Alun	Co-Chairman: CELESTINO, Tarcisio
ID No	Lecturer	Country	Paper
O-03-12	CELESTINO, Tarcisio	Brazil	Shotcrete supported shafts for urban underground construction
O-03-17	FRANCA, Pedro T	Brazil	Three-dimensional tunnel analysis with elasto-plastic constitutive models
O-03-19	AOKI, Tomoyuki	Japan	Design and construction of concrete center pillars in a large double adjoined binocular tunnel system
O-03-20	ROMANA, Manuel	Spain	Could the New Austrian Tunnelling Method be used safely in cities?
O-03-21	THOMAS, Alun	Hungary	Advanced numerical modelling in tunnel design - the example of a major project in the UK

WEDNESDAY, 27 MAY, 16:00-17:30

TOPIC 01/2, PÁTRIA HALL		Chairman: GYÖRGY, Pál		Co-Chairman: SMITH, Martin	
ID No	Lecturer	Country	Paper		
O-01-08	PARKER, Harvey W	United States	Life cycle cost considerations using risk management techniques		
O-01-09	REILLY, John	United States	Alternative contracting and delivery methods		
O-01-10	SMITH, Martin	United Kingdom	Major issues in the construction of large underground works - an international perspective		
O-01-11	RIVAL, Fabien	France	Geological risk: a methodological approach and its application to 65 km of tunnels under the Alps, in France		
O-01-12	STACHERL, Bernhard	Austria	Challenges for a new base tunnel project through the Andes		

TOPIC 05/4, BARTÓK HALL		Chairman: HARGITAI, Róbert		Co-Chairman: PEILA, Daniele	
ID No	Lecturer	Country	Paper		
O-05-16	KOUROSH, Shahriar	Iran	TBM tunneling and analysis of high gas emission accident in Zagros long tunnel		
O-05-17	BALCI, Cemal	Turkey	Performance prediction and comparison of in-situ values of a TBM: A case study of Otogar-Bagcilar metro tunnel in Istanbul		
O-05-18	QUI, Wenge	China	Study on longitudinal mechanical behavior during adjacent construction for overlapping shield tunnels		
O-05-19	ZHENG, Yu-chao	China	Study on the construction technology of full-face pipe-roofing method in large-span tunnel with 4 holes underpass of railway		
O-05-20	HIRSCHER, Julius & POGU, Francois	Hungary	Mined section at Gellert station and related structures		

TOPIC 02/3, LEHAR HALL		Chairman: TÖRÖS, Endre		Co-Chairman: ADMIRAAL, Han	
ID No	Lecturer	Country	Paper		
O-02-12	ANAGNOSTOU, Georg	Switzerland	Geotechnical and contractual aspects of urban tunnelling with closed shields		
O-02-13	WU, Jian-Hong	Taiwan	Investigating the Kaiser Effect of Changchiken sandstone in Taiwan		
O-02-14	NAKTHONG, Siripong	Thailand	Design and appraisal of twin tunnels for Bangkok MRTA extension project		
O-02-15	HARER, Gerhard	Austria	Koraln tunnel: Benefits of a structured investigation process for a large tunnel project - the clients view		
O-02-16	CHUN, Byung Sik	Korea	Earth pressure acting on the diaphragm wall of a shaft in cohesionless soil		

TOPIC 06/4, MOZART HALL		Chairman: MECSEI, József		Co-Chairman: INGERSLEV, Christian	
ID No	Lecturer	Country	Paper		
O-06-16	AOKI, Tomoyuki	Japan	Behaviour of large double adjoined binocular tunnels at shallow depth during excavation		
O-06-17	OGGERI, Claudio	Italy	Assessment of F.R. shotcrete behaviour during tunnel convergence		
O-06-18	SCHUBERT, Wulf	Austria	Development of expert system for the interpretation of monitoring data		
O-06-19	STADELMANN, Rolf	Singapore	Interaction between twin tunnels at close proximity and under shallow overburden in urbanised area		
O-06-20	YU, Chi-wen	Taiwan	Prediction of tunnel behaviors in intersection area		

The names of the chairmen and co-chairmen may be subject to change

LEGEND OF TOPICS AND COLOURS

Topic 01 Risk analysis, finances and contractual relationships

Topic 02 Geological and geotechnical investigations

Topic 03 Tunnelling in soft ground with shotcrete method

Topic 04 Cut- and cover constructions

Topic 05 Mechanized tunnelling

Topic 06 Monitoring, settlement control

Topic 08 Miscellaneous (storing facilities, research and developmrent, etc)

Topic 09 Architectural design, structural design and management policy

Topic 10 City, tunnel, environment and safety

Topic 11 Maintenance, repair and rehabilitation

Topic 12 Special tunnels (long tunnels)