





Società Italiana Gallerie & ITACET Foundation TRAINING COURSE

Conventional Tunnelling and ground reinforcing techniques

Torino 15th-16th of January 2015 Politecnico di Torino - Lingotto Building

Day 1: Thursday 15th January 2015

13.00-13.30: Registration

13.30-14.00: Opening Ceremony:

SIG President, ITA President, ITACET Foundation Delegate, Politecnico di Torino Authorities

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Session 1:	General as	nects and n	nain feature:	s of conve	ntional t	tunneling
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14.00-14.45:	General aspects of conventional	tunnelling and ground	d reinforcing applications – P. Grasso
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14.45-15.30: Conventional tunnelling supports and shotcrete – T. Celestino

15.30-15.45: Coffee break

15.45-16.30: Risk analysis in tunnelling design – S. Eskesen

16.30-17.15: Face reinforcements design technologies, design and examples of applications – G. Cassani 17.15-18.00: Rock mass and ground consolidation: equipments and examples of applications – D. Vanni

18.00-18.15: Discussion

18.15-18.30: Presentation of the new edition of the Master Course in "Tunnelling and Tunnel Boring Machines" – D. Peila

Day 2: Friday 16th January 2015

Session 2:	Lesson learnt in relevant conventional tunnelling examples in different soil and rock conditions
09.00-09.45:	Settlement design in conventional and mechanized tunneling – E. leca
09.45-10.15:	Tunneling in rock blasting and vibration control: lessons learnt from case histories in Norway – R. Haug
10.15-10.45:	Conventional tunnelling in squeezing grounds and complex formations: lessons learnt from the
	Road Tunnels of the Egnatia Odos Motorway - N. Kazilis
10.45-11.00:	Coffee break
11.00-11.30:	Conventional tunnelling in urban areas: lesson learnt from the shallow mined tunnels and caverns of the Metro of
	Santiago – A. Gomes
11.30-12.00:	Conventional tunnelling in karstic geology: lesson learnt from the Yiwan Railway Project in China – J. Yan
12.00-12.30:	Conventional tunnelling in rock masses in urban areas: lesson learnt from 72 nd Street Station, Shafts, Tunnels and
	Caverns Mega Project – New York City, USA – B. Fulcher
12.30-12.45:	Discussion
12.45-14.00:	Lunch

Session 3:	Special examples and innovations
14.00-14.30:	Example of ground reinforcing techniques in urbanized areas: lessons learnt from portals of the tunnels of the new
	Genova-Milano railway – P. Marchesselli
14.30-15.00:	Grouting technology: lessons learnt from relevant case histories of refurbishment of conventional tunnels – D. Michelis
15.00-15.30:	Grouting technology: lessons learnt from relevant case histories – I. Bridi
15.30-16.00:	Innovation in supporting technologies for conventional tunnelling: Lessons learnt from relevant case histories – C. L.
	Zenti
16.00-16.30:	Conventional excavation of shafts and small tunnels: Lessons learnt from relevant case histories – M.A. Piangatelli
16.30-17.00:	Discussion
17.00:	Closing



POLITECNICO DI TORINO

Co-organized with

Scientific responsible: Prof. Daniele Peila

Dipartimento di Ingegneria dell'Ambiente, del Territorio e delle Infrastrutture