

## WTC 2015 Training session for continuous education

# Soft Ground Urban Tunnelling & Rock Tunnelling in Karst

Dubrovnik - Croatia | Friday 22 – Saturday 23 May 2015

### 22 May 2015 - Soft Ground Urban Tunnelling

09.00–09.15	Welcome address - <i>Davorin Kolic as ITA Croatia President</i>
09.15–09.30	Opening address - <i>Søren Degn Eskesen as ITA-AITES President</i>
09.30–10.15	General aspects of soft urban tunnelling - <i>Søren Degn Eskesen (COWI AS, Denmark)</i>
10.15–10.45	Coffee break
10.45–11.30	Monitoring & Site analysis - <i>Robert Galler (University of Leoben, Austria)</i>
11.30–12.15	Urban mechanised tunnelling: EPBM-Slurry shields - <i>Tim Babendererde (Babendererde Engineers, Germany)</i>
12.30–14.00	Lunch
14.00–14.45	Excavation technology & support in Conventional Tunnelling <i>Tarcísio B. Celestino (University of São Paulo and Themag Engenharia)</i>
14.45–15.30	Case studies: Conventional tunnelling - <i>Thomas Peinsitt (SANDVIK)</i>
15.30–16.00	Coffee Break
16.00–16.20	Case study: In Karst tunnelling - <i>Karin Böppler (Herrenknecht AG, Germany)</i>
16.20–17.00	Questions & Answers – Final remarks & closing
17.00–17.30	Presentation of the ITA endorsed Master course in Tunnelling - <i>Daniele Peila (Polytecnico Torino, Italy) &amp; Michel Deffayet (CETU, France)</i>

### 23 May 2015 - Rock Tunnelling in Karst

09.00–09.45	General aspects of Rock tunnelling in Karst – <i>Jinxiu (Jenny) Yan (China Railway Southwest Research Institute Co., Ltd., China)</i>
09.45–10.30	Geological investigations in karst – <i>Felix Amberg (Amberg Group, Switzerland)</i>
10.30–11.00	Coffee break
11.00–11.45	Experiences in conventional karst tunnelling in Croatia in last 20 years <i>Ivan Vrkljan (University of Rijeka, Croatia)</i>
11.45–12.30	Tunnelling in limestone conditions – <i>Jakob Likar (University of Ljubljana, Slovenia)</i>
12.30–14.00	Lunch
14.00–14.45	Tunnelling with special measures for karst phenomena conditions <i>Davorin Kolic (Geodata, Croatia)</i>
14.45–15.15	Case study: Conventional Tunnelling: The Western Downhill Tunnel in Monaco – <i>Alain Poloni (Eiffage, France)</i>
15.15–15.45	Coffee Break
15.45–16.15	Case studies in mechanized tunnelling - <i>Karin Böppler (Herrenknecht AG, Germany)</i>
16.15–16.45	Case studies in mechanized tunnelling in karst conditions <i>The Robbins Company, USA - lecturer to be announced shortly</i>
16.45–17.15	Questions & Answers
17.15–18.00	Special lecture on Health & Safety during construction <i>Donald Lamont (Hyperbaric &amp; Tunnel Safety Ltd, United Kingdom)</i>
18.00–18.30	Final remarks & closing