



WEDNESDAY MAY 8, 2019

EDUCATION CREDITS FOR ITALIAN DELEGATES ONLY

No. 6 Education credits for Engineers

No. 7 Education credits for Geologists and Architects

PALAZZO SERRA DI CASSANO
ARCHAEOLOGY, ARCHITECTURE AND ART IN UNDERGROUND CONSTRUCTION

OFF-SITE SESSION AND BOURBON TUNNEL VISIT

AAA & Itacus SESSION

chair D. Martinelli (Italy)

- 10:00 – 10:30 **KEY NOTE LECTURE: Historical cross-alpine tunnels of Piemonte: from craftsmanship to industrialisation**
S. Pelizza
- 10:30 – 10:50 **The Art Stations**
F. Brenci - MC A - Mario Cucinella Architects, Bologna, Italy
- 10:50 – 11:10 **Genoa underground: solidity, usefulness and beauty of the Grazie Bassa Tunnel during 100 year service life**
C. Panariello, H. Mohamed Dahir, V. Molinari - Italferr S.p.a, Rome, Italy
- 11:10 – 11:30 coffee break
- 11:30 – 12:40 **Bourbon Tunnel Visit**
- 12:40 – 13:10 Travel from Palazzo Serra di Cassano to Mostra d'Oltremare
- 13:10 – 14:00 Lunch

PALAZZO MEDITERRANEO
STRATEGIC USE OF UNDERGROUND SPACE FOR RESILIENT CITIES

AAA & Itacus SESSION

chair A. Cornaro (Switzerland)

chair D. Boldini (Italy)

- 14:00 – 14:20 **itacus SPECIAL REPORT II**
The National Actions Program Think Deep - reported on the national think deep groups
Cornaro, H. Admiraal

- 14:20 – 14:40 **Resilient City: The case of Bisagno Diversion Tunnel**
G. Lunardi, G. Cassani, M. Gatti, B. Spigarelli, C. L. Zenti - Rocksoil S.p.A., Milan, Italy
- 14:40 – 15:00 **Shafts and drainage tunnels as a sustainable and preventive measure to mass movements of saturated soils in Bucaramanga, Colombia**
F. Castillo, G. Pardo - Colombian Tunnelling and Underground Works Association – CTOS, Bogotá, Colombia
- 15:00 – 15:20 **Conventional Tunneling in urban area**
N. Munfah AECOM, New York, USA
V. Gall, W. Klary, T.M. O'Brien - Gall Zeidler Consultants, Ashburn, Virginia, USA

STRATEGIC USE OF UNDERGROUND SPACE FOR RESILIENT CITIES

Itacus SESSION

chair A. Cornaro (Switzerland)

chair S. Venturoni (Italy)

- 15:40 – 16:00 **Extending the urban underground utility network capacity – A long drive large diameter pipe-jacking tunnel**
A. Koliji - Stucky Ltd, Renens, Switzerland - Current: BG Consulting Engineers, Lausanne, Switzerland
E. Rascol - Swiss Federal Railways, CFF, Lausanne, Switzerland
S. Crisinel - Stucky Ltd, Renens, Switzerland
- 16:00 – 16:20 **Compound use of underground space for integrated campus urban development: a case study from Tsinghua University, China**
WJ. Zhu, Q.C. Bao, S.J. Gai - Tsinghua University, Beijing, China
- 16:20 – 16:40 **Investing in urban underground space –maximising the social benefits**
S. Bricker - British Geological Survey, Nottingham, UK
L. von der Tann - University College London, London, UK
E. Reynolds - Urben, London, UK
C. Bocci - WestonWilliamson+Partners, London, UK
P. Salak - Dr Sauer & Partners, Surbiton, Surrey, UK
- 16:40 – 17:00 **The A2 Maastricht Project: A joint action plan**
B. Grote, B. Lobbezoo - Avenue2, Maastricht, The Netherlands
L. Prompers, D. Florie - Projectbureau A2 Maastricht, Maastricht, The Netherlands

17:00 – 17:30 **CLOSING CEREMONY**