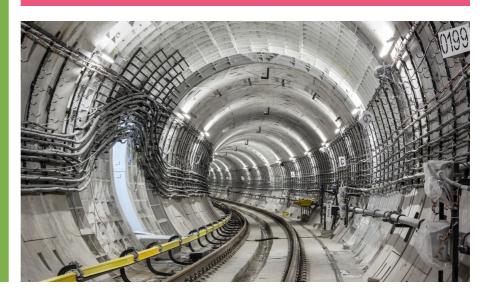




Dipartimento DICAR Aula Oliveri, Cittadella Universitaria UNIVERSITÀ DI CATANIA



PhD Course EVALUATION AND MITIGATION OF URBAN AND LAND RISKS

WORKSHOP ON: URBAN RISK DUE TO TUNNELS: GEOTECHNICAL AND STRUCTURAL ASPECTS

January, 7-10, 2020











Workshop on:

"URBAN RISK DUE TO TUNNELS: GEOTECHNICAL AND STRUCTURAL ASPECTS"

07.01.2020

09:00-10:00 OPENING CEREMONY

Prof. E. Foti (Head of the Department of Civil Engineering and Architecture, University of Catania)

Prof. M. Cuomo (Coordinator of the PhD course in Evaluation and Mitigation of Urban and land Risk, University of Catania)

Eng. S. Fiore (General Manager of Ferrovia Circumetnea)

Eng. A. Pulejo (Project Manager of CMC Ravenna)

Eng. G. Platania (President of the Catania Associations of Engineers)

Eng. M. Scaccianoce (President of the Foundation of the Catania Association of Engineers)

Eng. G. Piana (President of ANCE Catania)

Prof. M.R. Massimino (Associate Professor of Geotechnical Engineering, University of Catania)

10:00-10:45 LESSON 1: The "super-wedge" cutting method applied during the construction of the Catania underground

(Eng. S. Fiore, General manager of Ferrovia Circumetnea)

10:45-11:30 LESSON 2: The experience of CMC in the extending works of Catania metro network

(Eng. A. Pulejo, Project Manager of CMC Ravenna)

11:30-12:15 LESSON 3: Damage occurred on underground and aboveground structures: a fundamental lesson for a careful geotechnical and structural design

(Prof. M.R. Massimino, Associate Professor of Geotechnical Engineering, University of Catania)

14:00-18:00 Technical visit to the underground construction sites of the new Metro Line that underpass the urban area of Catania

08.01.2020

o9:00-11:00 LESSON 4: Geological and geotechnical investigations: a key aspect in infrastructure design

(Prof. F. Castelli, Full Professor in Geotechnical Engineering, Kore University, Enna)

11:00-13:00 LESSON 5: Static and dynamic in-situ tests: the new challenges and opportunities

(Dr. A. Ferraro, Assistant Researcher, University of Catania)

14:00-16:00 LESSON 6: Evaluation of dynamic soil parameters and soil non-linearity by means of laboratory tests

(Dr. V. Lentini, *Member of the Geotechnical Research Group, Kore University, Enna*)

09.01.2020

09:00-11:00 LESSON 7: Numerical modelling and structural aspects of tunnel-soil systems

(Prof. M. Cuomo, Full Professor in Structural Engineering, University of Catania)

11:00-13:00 LESSON 8: Static behaviour of full-coupled tunnel-soil-aboveground structures: from case-histories to numerical approaches Part 1 (Prof. E. Bilotta, Associate Professor in Geotechnical Engineering, University of Naples Federico II)

15:00-17:00 LESSON 8: Static behaviour of full-coupled tunnel-soil-aboveground structures: from case-histories to numerical approaches Part 2 (Prof. E. Bilotta, Associate Professor in Geotechnical Engineering, University of Naples Federico II)

10.01.2020

og:oo-13:oo LESSON g: Analysis of dynamic behaviour of tunnel-soil systems by means of centrifuge tests

(Prof. G. S. P. Madabhushi, Full Professor in Geotechnical Engineering, University of Cambridge)

14:00-17:00 LESSON 10: FEM modelling of full-coupled tunnel-soil-aboveground structures under seismic conditions

(Dr. G. Abate, Member of the Geotechnical Research Group, University of Catania)