



TERRE
Training Engineers and Researchers to Rethink geotechnical Engineering for a low carbon future

*European Commission – Horizon 2020
 Marie Skłodowska-Curie European Training Networks (ETN)*

TERRE Workshop
Exploring low-carbon technologies in Geotechnical Engineering

Tuesday, 25 June 2019

University of Strathclyde
 James Weir building – Level 6 – Room JW6.06
 75 Montrose Street – G1 1XJ Glasgow

(4 min walk from TIC, venue of IS-Glasgow 2019)

Opening:

08:45 – 09:00	The TERRE Project <i>Alessandro Tarantino</i> <i>University of Strathclyde, Glasgow, UK</i>
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Session: Vegetation as low carbon remedial measure for slope stabilisation

09:00 – 09:30	The effect of vegetation on slope stability of shallow pyroclastic soil covers <i>Sofia Dias</i> <i>Università di Napoli Federico II, Italy and INRA – UMR AMAP & Université de Montpellier, Montpellier, France</i>
09:30 – 10:00	Timber sheet pile-vegetation stream bank retaining structure <i>Abhijith Kamath</i> <i>Technical University of Delft, Netherlands</i>
10:00 – 10:30	Vegetation as 'hydrological' remedial measure for slope stabilisation: an experimental comparison between bare and vegetated soil <i>Roberta Dainese</i> <i>University of Strathclyde, Glasgow, UK and CIRAD – UMR AMAP & Université de Montpellier, Montpellier, France</i>
10:30 – 11:00	Compacted and root-permeated soil behaviour: observations from micro to macro-scale <i>Alessandro Fraccica</i> <i>International Centre for Numerical Methods in Engineering (CIMNE), Barcelona, Spain & CIRAD – UMR AMAP & Université de Montpellier, Montpellier, France</i>

11:00 – 11:30 Coffee Break

Session: Bio-chemical soil reinforcement

11:30 – 12:00	The influence of fungal hyphae growth on the erodibility of sands <i>Emmanuel Salifu</i> <i>University of Strathclyde, Glasgow, UK & Università di Napoli Federico II, Italy</i>
12:00 – 12:30	Advances in bio-stabilization of compacted earth material using Enzymatic Calcium Carbonate Precipitation <i>Alessia Cuccurullo</i> <i>Université de Pau et des Pays de l'Adour (UPPA), Anglet, France & University of Durham, UK</i>
12:30 – 13:00	Biopolymer stabilised earthen construction materials <i>Sravan Muguda Viswanath</i> <i>University of Durham, UK & Université de Pau et des Pays de l'Adour (UPPA), Anglet, France</i>

13:00 – 14:00 Buffet Lunch

Session: Suction as natural soil reinforcement

14:00 – 14:30	Numerical study of the applicability of capillary barrier systems for suction-control and prevention of rainfall-induced slope instabilities Riccardo Scarfone <i>University of Glasgow, UK</i>
14:30 – 15:00	Physical and numerical modelling for the sustainability of retaining structures in unsaturated soils Gianluca Speranza <i>École Polytechnique Fédérale de Lausanne (EPFL), Switzerland & Nobatek, Anglet, France</i>
15:00 – 15:30	Soil surface damage induced by rapid wetting: implications on soil erodibility Raniero Beber <i>University of Strathclyde, Glasgow, UK and Kempfert Geotechnik GmbH, Germany</i>

15:30 – 16:00 Coffee Break

Session: Sustainable geotechnical design and construction

16:00 – 16:30	Geotechnical structures: a new hotspot for CO2 sequestration? A study on 'grey soils' revegetation strategies and their potential to store and protect organic carbon in a framework of climate change mitigation Lorenzo Rossi <i>Università di Cassino e del Lazio Meridionale, Italy and INRA – UMR AMAP & Université de Montpellier, Montpellier, France</i>
16:30 – 17:00	Thermo-mechanical behaviour of energy walls Jacopo Zannin <i>École Polytechnique Fédérale de Lausanne (EPFL), Switzerland & Nobatek, Anglet, France</i>
17:00 – 17:30	Holistic optimization of offshore wind turbine support structures and foundations Slimane Ouakka <i>LimitState, Sheffield, UK</i>
17:30 – 18:00	Insight into Decision Support Systems for Sustainable Geotechnical Engineering Pavlina Karagianni <i>International Centre for Numerical Methods in Engineering (CIMNE), Barcelona, Spain</i>

Participation to the TERRE Workshop is **free of charge**. Buffet lunch & coffee breaks will be provided to all participants.

Please register here if you wish to attend the TERRE Workshop (registration is compulsory):

<https://ewds3.strath.ac.uk/civengforms/TERRE-Registration-Page>