

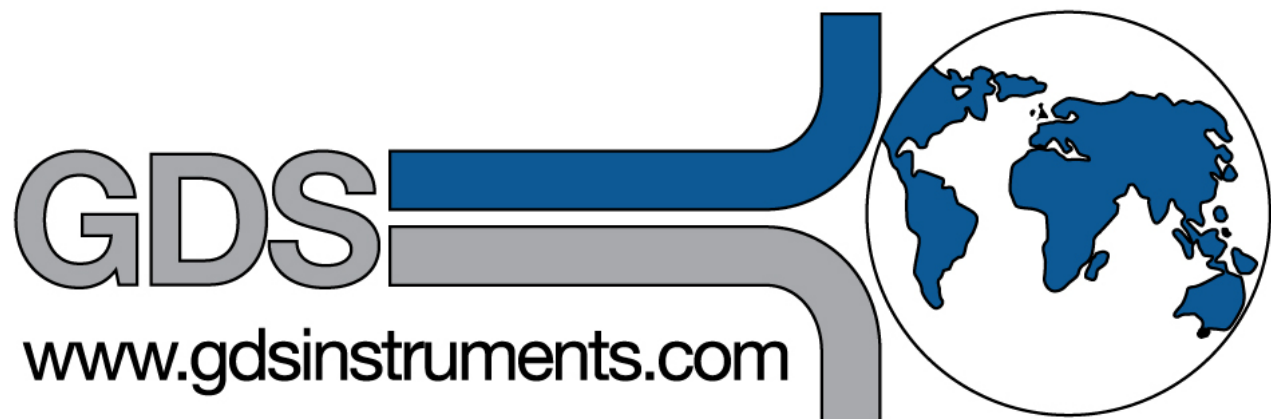


EUNSAT2025 + BGE

**5th European Conference on Unsaturated Soils
+ Biotechnology in Geotechnical Engineering
Lisbon, 1 to 3 September 2025**

TENTATIVE PROGRAM

22 July 2025



METER





EUNSAT2025 + BGE

5th European Conference on Unsaturated Soils
Biotechnology in Geotechnical Engineering

Lisbon, 1 to 3 September 2025

<https://eunsat2025.tecnico.ulisboa.pt>

Monday - 1st September

9:00 to 10:30

Auditorium

Opening EUNSAT 2025

Chair

EUNSAT Distinguished Lecture

Cristina Jommi (TUDelft, Netherlands)

Coffee Break

11:00 to 12:30

Auditorium

Chair

Keynote Lecture

Aikaterini Tsiampousi (Imperial College London, UK)

Integrating soil-atmosphere interaction into sustainable slope management.

Keynote Lecture

Chao-Shen Tang (Tongji University, China)

Unsaturated soil monitoring using distributed fiber optic sensing technology.

Visit to the laboratory of Geotechnics I (registration at the front desk)

Lunch

14:00 to 16:00

Parallel Sessions

Constitutive models

Auditorium

Chair

106 Nazanin Mahboobi Motlagh, Arman Khoshghalb and Nasser Khalili

Effect of void ratio on soil-water retention curves of silty sands using a pore network model derived from sphere packs

- 22 Ryunosuke Kido and Yosuke Higo
Variation in principal curvature of air-water interface inside and outside shear band of dense unsaturated sand
- 7 Hesam Ebrahimisadr, Sophie Lanckohr and Bertrand Francois
A methodology for the calibration of the effective stress parameter: From macroscopic considerations to microstructural validation
- 74 Michelangelo Cardin and Alessio Ferrari
Modelling the swelling behaviour of Opalinus Clay shale using a double-structured model
- 5 Nazanin Irani, Christoph Schmüdderich and Torsten Wichtmann
Application of a state-dependent hyperelastic-plastic constitutive model for slope stability analysis of fiber-reinforced sand
- 60 Giada Maria Rotisciani
Effect of partial saturation on strain localisation in over-consolidated fine-grained soils
- 46 Arianna Pucci, Ignacio Giomi, Giulia Guida, Vicente Navarro and Francesca Casini
Implementation and validation of a hydro-mechanical model based on the Clay and Sand Model extended to unsaturated condition
- 92 Lluís Monforte, Abdallah Najdi and Mohamed Rouainia
Modelling the constitutive behaviour of unsaturated soils using a kinematic hardening model

Experimental Studies I

VA1

Chair

- 24 Tomoyoshi Nishimura and Masafumi Matsumoto
Creep deformations for unsaturated-saturated soils with consider suction and pore-water pressure
- 163 Hao Zeng, Laura Gonzalez-Blanco and Enrique Romero
Effect of gap-sealing on hydro-mechanical behaviour of granular bentonite
- 53 Sparsh Bhardwaj, Tatsuya Ishikawa and Takahisa Nakamura
Influence of moisture content on shear behavior of differently aged ballast mixture
- 112 Fausto Molina-Gómez, Rubén Galindo-Aires and Antonio Bobet
Stiffness of pyroclastic scoriae under different degrees of saturation

- 49 Kadir Kocaman, Lucia Mele, Aşkın Özocak and Alessandro Flora
Effect of Matric Suction on Monotonic and Cyclic Behaviour of a Low-Plastic Silty Soil from Sakarya Region
- 93 Jubert Pineda, Kaiwen Ouyang, Olivier Buzzi, Jianping Li and Stephen Fityus
Suction effects on the shear strength behavior of compacted dewatered tailings
- 109 Jairo E. Yepes, Laureano R. Hoyos, Claudia L. Velosa and Anand J. Puppala
Assessment of Peak/Residual Failure Envelopes of Clayey Soil via Suction-controlled Ring Shear Testing
- 118 Katia Bicalho, Anita Chrystello and Nelson Santos
Using the Filter Paper Method to determine soil suction data for sands and low plasticity clays

Water Retention Properties

VA2

Chair

- 128 Natasa Stambuk Cvitanovic and Ana Duhovic
Methodology for testing the soil water characteristic curves of soft rocks - example of Eocene marls
- 129 Cen Gao, Yujun Cui, Nadia Benahmed and Sylvie Nicaise
A dual-porosity SWRC model for lime-treated soils upon curing
- 134 Alana Dias de Oliveira, Renan Felipe Braga Zanin, Pedro Henrique Lopes Dal-Col, Narayana Saniele Massocco and Raquel Souza Teixeira
Influence of Particle Size Distribution and Microstructure on Water Retention and Infiltration in Lateritic Soils
- 18 Viktor Krause, Meisam Goudarzy, Diethard König and Torsten Wichtman
Water retention and suction stress of a partially saturated sand-clay mixture subjected to hydraulic hysteresis: laboratory investigations and model evaluation
- 131 Aditi Rana, Arash Azizi, Malcolm Whitworth, Marti Lloret-Cabot and David Toll
Effect of Water Retention Properties on the Shear Modulus of an Unsaturated Compacted Soil
- 65 Zheng Zhou
Correlations between water-entry value and its affecting factors for hydrophobic soil: a review
- 34 Megan McKellar, Feran Parera Morales, Greg Siemens and Andy Take
Visualizing air entry from footprints on the beach experiments using fine transparent soil

152 Emőke Imre

Closed-Form SWCC Functions for Sand Fractions and Mixtures

Coffee Break

16:30 to 18:00

Parallel Sessions

Numerical Studies I

Auditorium

Chair

68 German Matos Paucar, Wiebke Baille, Merita Tafili, Jan Machaček and Torsten Wichtmann

Mechanical effects and numerical simulation of wetting-induced volumetric behaviour of sandy soils from opencast lignite mining

20 Shizuka Eshiro and Yosuke Higo

Theoretical modelling of water retention curves based on the X-ray micro-CT observations

42 Zharry Bueno, Gabriel Barbosa and Manoel Cordão Neto

Effects of Water Retention Curve and Infiltration process in progressive landslides using the Material Point Method(MPM)

57 Erik Tengblad, Vicente Navarro and Rubén López-Vizcaíno

Proposal of a suction approximation to simulate the behaviour of real gases

98 Man Xu, Cristina Jommi and Stefano Muraro

An analysis of pore pressure measurement in gassy soils

142 Govinda Bakna and Jagdish Prasad Sahoo

Pullout capacity of plate anchor in unsaturated frictional soil using particle size-based soil water retention curve

Coupled problems

VA1

Chair

138 Layla Aquino, Camille Mannarino, Elisabeth Ritter and Rafaela Cardoso
Chemo-hydro-mechanical Coupled Performance of Geosynthetic Clay Liners in the Presence of Synthetic Leachates

146 Sandra Orlandi, Cecilia Laskowski, Diego Manzanal and Irna Mendez
Expansive clay treated with lignin: insight on water pollution

- 54 Zihao Liu, Shin-Ichi Kanazawa, Masanori Kohno and Kira Iida
Investigation of the Strength Characteristics of Various Bentonites under Different Temperature and Saturation Conditions
- 3 Rodrigo Polo-Mendoza, David Mašín, Jan Najser and Jakub Roháč
Thermo-hydro-mechanical behaviour of Malaysian kaolin under one-dimensional conditions
- 143 Luciano Campos, Alex Zubrow and Sherif Abdelaziz
Impact of temperature variations on at-rest earth pressures in unsaturated soils
- 110 Daniel R.C. Green, Laureano R. Hoyos and Anand J. Puppala
Response of Cohesive-frictional Soils Under Thermo-Controlled Cyclic Simple Shear Testing: Preliminary Observations

Experimental Studies II

VA2

Chair

- 145 Talenta Pitso, Agostino Walter Bruno, Giuseppe Pedone, Marianna Pirone and Domenico Gallipoli
Synergic effect of hydrated lime and guar gum treatments on the shear strength and retention behaviour of a pyroclastic soil
- 126 Francesco Moscato, Marco Rosone, Clara Celauro and Alessio Ferrari
Activation of marble industry waste for sustainable stabilization of clays
- 44 Jiahang Xu, Dariusz Wanatowski, Xianfeng Liu, Shengyang Yuan and Jie Ma
Multiscale study on the shearing behaviour of unsaturated basalt fibre modified red mudstone as subgrade fill material
- 29 Wei Yan and Emanuel Birle
Experimental Investigation of the Geosynthetic Capillary Barrier Effect in multi-layer Road Embankments
- 59 Pooria Ghadir and Matteo Pedrotti
Nanoporous synthetic roots: effect of drying paths on Colloidal Silica-Plants Interaction
- 1 Maria Margarida Barriga, Ana Filipa Calheiros, Sofia O. D. Duarte, Gabriel A. Monteiro and Rafaela Cardoso
Influence of fines on the hydromechanical properties of a biocemented uniform-size sand

Welcome Reception EUNSAT2025+BGE

At the Museo of Civil Engineering



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Tuesday – 2nd September

9:00 to 10:30	Parallel Sessions
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Field Cases

Auditorium

Chair

151 Ignacio Giomi, Ricardo J. Rocca and Franco M. Francisca
Inverse and probabilistic analysis of induced settlements by wetting in collapsible soils

130 Håkon Heyerdahl and Marius Mathisen Søvik
Landslides triggered by snowmelt, Eastern Norway

75 Otávio Alfama Neto, Larissa Reis Silva, Emerson Batista Silva, Rafael Cerqueira Silva, Carlos Medeiros and Manoel Porfírio Cordão Neto
Geotechnical Behavior of Collapsible Soils in the Federal District: Integration of Physical, Mechanical, and Hydraulic Parameters

69 Nancy Anataba Kyorku Dzikunu-Bansah
Climate Change Trends as measured by the Thornthwaite Moisture Index Maps for Ghana

101 Giuseppe Vitiello, Filomena Sabatino, Marco Valerio Nicotera and Marianna Pirone
Hydro-mechanical characterization of the pyroclastic cover at the Salerno Test Site (Southern Italy)

78 Lucia Coppola, Luca Pagano and Francesco Silvestri
Observations on hydrological state of volcanic soil covers: the Celario slope case

Experimental Studies III

VA1

Chair

156 Giusy Floriana Valentino, Marco Rosone and Alessio Ferrari
Effect of extended drying on the mechanical behaviour of a sand

147 Zahraa Leahaf, Mathilde Morvan and Pierre Breul
Effect of Clay Content on Suction and Swelling Behavior in Unsaturated Soils: Insights from Water Retention and Oedometric Testing

144 Samuel Ampadu, Felix Ayeh, Frederick Owusu-Nimo, Frederick Nai Charkley and Fred Adjei

A laboratory study of climate change and subgrade strength of a lateritic soil in a tropical environment

55 Lucia Mele, Marco V. Nicotera, Fabio Vivona and Alessandro Flora

Monotonic Behavior of Pompeii Pyroclastic Soil Under Unsaturated Conditions

137 Jubert Pineda and Hoang Long Dinh

Evolution of K_o in compacted loess upon loading and wetting paths

125 Fausto Molina-Gómez, Rubén Galindo-Aires and Antonio Viana da Fonseca

On the undrained cyclic resistance of a partially saturated sand

THM coupled behaviour

VA2

Chair

51 Alice Gamble, Ruan Murison, Elisabeth Bowman and Tiago Gaspar

Hydromechanical behaviour of a waste foundry sand

38 Benedetta Tosti and Giulia Guida

Experimental investigation of Frost Heave in clayey sands: Effects of Density and Thermal conditions

17 Yonghan Ying, Jidong Teng, Antai Dong and Daichao Sheng

Investigating the Freezing-Thawing Hysteresis of Soils

52 Shin Sato, Florian Kober, Raphael Schneeberger and Tomoyuki Shimura

THM modelling for HotBENT experiment using the 3D model

6 Timon Kayser, Wiebke Baille, Merita Tafili and Torsten Wichtmann

Experimental and numerical investigation of coupled thermo-hydro-mechanical behaviour of Kaolin clay

16 Leonardo Maria Lalicata, Agostino Walter Bruno and Domenico Gallipoli

On the indoor hygrothermal regulation ability of earth building walls

Coffee Break

Equipment development**Auditorium***Chair*

119 Alessandro Tarantino, Roberta Dainese, Carla Pendino and Giulia Guida
Dielectric permittivity method to monitor (liquid) water content in unsaturated soils, frozen soils, and snow

161 Laura Gonzalez-Blanco, Enrique Romero and Hao Zeng
Coupling X-ray CT and MIP to Assess Freeze-Drying Effects on the Structural Arrangement of Granular Bentonite

19 Tomoyoshi Nishimura
Investigation of hydro-mechanical property for unsaturated expansive soil using developed suction control system

95 Khai Hoan Tran
Cyclic Liquefaction Characteristics of Unsaturated Sandy Soils: Triaxial Testing Investigation

122 Benedek Nagy, Grainne El Mountassir and Alessandro Tarantino
Suction monitored apparatus to investigate shear strength of unsaturated granular material

120 Andrew Darby, Matteo Pedrotti and Alessandro Tarantino
Short-wave infrared (SWIR) imaging to illuminate hydraulic processes in the rhizosphere

Numerical and experimental methods**VA1***Chair*

157 Armen Ghazaryan and Anna Kirakosyan
Deep learning-based classification and segmentation of rock discontinuities from photogrammetry and lidar data

39 Narayana Saniele Massocco, Luana Lenzi, Alana Dias de Oliveira and Orlando Martini de Oliveira
Application of Transformed and Normalized Models for Hydraulic and Mechanical Characterization of Granite Residual Soils

50 Andrea Muñoz Ibáñez, Camilo Guerrero and J. Carlos Santamarina
Suction-Induced Volume Changes in Rocks (Anisotropy and Cementation) – Geotechnical and Geoenergy Implications

160 Dawei Xue, Bowen Song and Xilin Lu

Modeling hydro-mechanical coupling effects on creep-induced compaction deformation around boreholes

148 Xiaowei Feng, Zewei Li and Peng Huang

Laser-induced strengthening of soft rocks: mechanisms and applications in borehole stabilization

40 Gasper Abima, Anita Atukunda and Richard Kizza

Development and performance evaluation of a method to determine the maximum dry density of lateritic soils using specific gravity.

Numerical Studies II

VA2

Chair

108 Inge de Wolf, Stefano Muraro and Cristina Jommi

Time series analysis of atmospheric-driven hydromechanical history of soft soil geo-structures

96 Kwangwoo Lee, Alessio Ferrari and Lyesse Laloui

The effect of pore water pressure distribution induced by rainfall infiltration on the failure of unsaturated soil slopes

37 Gorizia D'Alessio, Leonardo Maria Lalicata and Francesca Casini

Hydro-mechanical analysis of embankments stability in partially saturated soils under rainfall events

8 Maryam Sadat Maddah Sadatieh, Aikaterini Tsiampousi and Athanasios Paschalis

Modelling the impact of depth distributed plant water uptake on Soil-Plant-Atmosphere Interactions

32 Hideki Nagai, Yuki Takada, Kazuhide Yamaguchi and Shingo Horimi

Response analysis during liquefaction considering unsaturated soils

77 Lucia Coppola, Luca Pagano, Stefania Sica and Mariagrazia Tretola

Suction-induced effects on the seismic response of a zoned earth dam through simplified dynamic analyses

Visit to the laboratory of Geotechnics II (registration at the front desk)

Lunch

14:00 to 16:00

Auditorium

Opening BGE

Chair

Keynote Lecture

Lyessse Laloui (Swiss Federal Institute of Technology, EPFL, Switzerland)

From Microbial Bonds to Macroscopic Strength: A Mechanical Perspective on Biocemented Soils

Keynote Lecture

Grainne El Moutassir (, UK)

To be defined

Coffee Break

16:30 to 18:00

Parallel Sessions

Selected Lectures I (FUNDEC course)

Auditorium

27 Rafaela Cardoso, Ana Carolina Farinhas, Mário Oliveira, Miguel Q. Cruz, Isabel Gonzalez, Ana Teresa Rodrigues, Leslie Sapin and Annette Esnault-Filet
Study of the durability of biocementation treatment applied to a real slope in Portugal

76 Natascha Kallerhoff, Ricarda Sellinghoff, Wolfgang Lieske, Wiebke Baille and Torsten Wichtmann
Biopolymer-modified bentonite-silt composites to improve the hydro-mechanical properties of landfill mineral sealings

104 Giuseppe Pedone, Agostino Walter Bruno, Marianna Pirone, Talenta Pitso and Domenico Gallipoli
On the combined use of hydrated lime and guar gum for rainfall-induced shallow landslide risk mitigation

9 Jiale Zhu, Abbas El-Zein, Thomas Hubble and Guien Miao
Root Biomechanics Testing Challenges: Findings from Experiments on Native Australian Trees (RECORDED)

100 Lluís Monforte, Laurin Hauser, Josep Maria Carbonell and Marcos Arroyo
An exploratory model of tree root pull-out in partly saturated soils

162 Marius Milatz
Experimental investigation of the pull-out resistance of simplified root system architecture models in dry sand

Experimental Bio

VA1

Chair

2 Amanda Mendonça, Paulo da Venda Oliveira, Paula Morais, Nuno Simões and Pedro Farias

Biocementation potential of *Sporosarcina pasteurii* and *Pseudomonas* M47T1 for sustainable soil stabilization

127 Marco Rosone, Annamaria Gallo, Rosa Alduina and Giorgio Manno
Preliminary investigation on a novel bacterium from a hydrothermal vent for biocementation of soils

124 Anna D. Kwablah, Adesola H. Adegoke, Kannan K. R. Iyer and Emmanuel Salifu
Hydromechanical Response of Moderately Calcareous Clayey-Sand Treated with Nutrient Additive or Cementation Solution

67 Smitha Sivadasan, Sravan Muguda, Emmanuel Salifu, Hamed Khodadadi Tirkolaei, Agostino Walter Bruno and Domenico Gallipoli
Hydraulic Response of Sandy Soil to Fungi-Biopolymer Treatment

150 Qi Zhang, Benedek Nagy, Alessandro Tarantino and Grainne El Mountassir
Experimental investigation of the influence of the growth of saprotrophic fungi (*Pleurotus ostreatus*) on the aggregate stability of a silty sand

56 Enza Vitale, Pietro Gian Pesce, Rossella Petti, Giacomo Russo, Michael Plötze, Alexander Puzrin and Claudia Vitone
Mussel shells powder as biogenic precursor of alkali activated binders for soil stabilisation

Micro

VA2

Chair

133 Mehana Allache, Yu Jun Cui and Nadia Mokni
On the determination of pore size distribution by Nitrogen Adsorption and Mercury Intrusion Porosimetry for Claystone

23 Hamed Faizi and Abbas El-Zein
Evaluating Swelling Behaviour and Durability of Geopolymerised Expansive Soils Under Cyclic Moisture Conditions

99 Luis José Parra Gómez, Cristina Jommi and Stefano Muraro
Observation of peat porosity and water retention upon drying

79 Mohamed Ali Marrakchi, Yu Jun Cui, Patrice Chardard, Pascale Massaad, Gildas Potin, Laurent Desmurs, Simon Bonne and Philippe Gotteland
Air Permeability and Microstructure of a compacted silt treated with different binder dosages

132 Yu Lei, Yujun Cui and Nadia Mokni
pH and time dependent microstructure features of compacted bentonite-sand mixture

123 Marco Starvaggi, Marco Rosone, Pathmanathan Rajeev and Alessio Ferrari
Fabric evolution of a double-structured 3D-printed clayey soil upon drying

18:00 TC106 Meeting	FUNDEC room (1 st Floor)
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Banquet Casa do Alentejo (Lisbon Downtown)



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Wednesday – 3rd September

9:00 to 10:30	Auditorium
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Chair

Bright Spark lecture I

Bright Spark lecture II

Coffee Break

11:00 to 12:30	Auditorium
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Chair

Keynote lecture

Alessio Ferrari (University of Palermo, Italy // EPFL, Switzerland)

Shales: an unsaturated Soil Mechanics perspective.

Keynote lecture

Claudia Vitone (Politecnico di Bari, Italy)

Bio-Materials and Nature-Based Solutions for Marine Waste Valorisation: Multiscale Investigations, Coupled Phenomena, and Engineering Applications

Visit to the laboratory of Geotechnics III (registration at the front desk)

Lunch

14:00 to 16:00	Parallel Sessions
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Selected Lectures II (FUNDEC course)

Auditorium

Chair

105 Marianna Pirone and Gianfranco Urciuoli

Multi-Factor Rainfall Thresholds (MF-RT) for shallow slip prediction based on field monitoring

91 Georgios Belokas, Dimitrios Kokoviadis and Michael Bardanis

A fully instrumented field station to monitor essential unsaturated soil variables: Records and lessons during the Mediane Daniel

116 Marianna Pirone, Giuseppe Vitiello, Giuseppe Pedone, Francesca Casini, Antonio Santo and Gianfranco Urciuoli

The PROMISE Project: An integrated approach for mitigation of flowslide risk – Preliminary results from the Salerno Test Site

159 Alessandro Fraccica, Matteo Maggi, Danilo D'Angiò, Mauro Bonasera, Gianluigi Di Paola, Vittorio Chiessi and Giovanni Bertolini

Hydro-mechanical characterisation and monitoring through conventional and satellite data: the Calita landslide case (Italy)

47 Amanda DiBiagio, Vittoria Capobianco, Amy Oen and Lena M. Tallaksen

Hydro-mechanical effects of deciduous forest on slope stability: first results from a case study in Western Norway

- 14 Ethelbert O. Mezie, Aikaterini Tsiampousi and Ken Vinck
Numerical simulation of pore water pressure effects on landslides - case study of Nanka in southeastern Nigeria
- 139 Shunsuke Fujino, Shin-Ichi Kanazawa, Satoe Suzuki and Satoru Ohtsuka
Study on rainfall infiltration behavior of soil structures considering vegetation's slope failure prevention function
- 31 Andrea Giusti, Rafaela Cardoso, João Nascimento and Teresa Melo
Impact of climate on groundwater levels at a case study in Alentejo, Portugal, considering unsaturated infiltration

Experimental Studies VII

VA1

Chair

- 67 Smitha Sivadasan, Sravan Muguda, Emmanuel Salifu, Hamed Khodadadi Tirkolaei, Agostino Walter Bruno and Domenico Gallipoli
Hydraulic Response of Sandy Soil to Fungi-Biopolymer Treatment
- 62 Elise Lefevre and Alessia Cuccurullo
Geotechnical characterisation of recycled EICP stabilized earthen materials
- 35 Hanieh Babaeizad, Wiebke Baille and Torsten Wichtmann
Comparative Analysis of Bioaugmentation and Biostimulation Approaches for Biocementation of Sandy Soils
- 102 Maria Mavroulidou, Michael Gunn, Sumit Joshi, Intisar Sanam, Christopher Gray, Louis Le Pen, Jonathan Garelick and Juan Antonio Laguna Librado
Assessment of the strength and swelling potential of soft soils before and after electrokinetic biocementation
- 135 Hamed Abdeh Keykha, Maria Mavroulidou and Michael Gunn
A comparative assessment of biogrouting versus electro-biogrouting for the treatment of fine-grained soils
- 21 Rui Qi and Sergio Lourenço
Self-healing of clay desiccation cracks by biopolymeric microcapsules – sharing good and bad results
- 25 Rui Qi and Sergio Lourenço
Biopolymeric microcapsules and their evaluation as additives in sand improvement

Experimental Studies VI (Bio)

VA2

Chair

155 Alessandro Fraccica, Andrea Lepri, Nicola Papini and Manuela Cecconi
On the measurement of in situ unsaturated shear strength of a beech-rooted soils

115 Mariagiovanna Moscariello, Sabatino Cuomo, Vito Foresta and Rita Ciaglia
Interaction of long rooted grass with natural unsaturated pyroclastic soils: new tests

12 Yuchen Wang, Trishia Liezl Dela Cruz and Junjun Ni
Eggshell hydrochar application to enhance soil fertility and promote plant growth

13 Trishia Liezl Dela Cruz, Yuchen Wang and Charles Wang Wai Ng
Comparative Effects of Biochar and Manure Amendments on Vegetation and Material Fertility

15 Shanshan Li, Holger Reith, Andreas Bieberstein, Volker Schlüter and Hans Henning Stutz
Root distribution in willow brush mattresses: experimental framework and preliminary findings

94 Gerald Innocent Otim, Alena Zhelezova, Gianmario Sorrentino, Stefan Trapp and Irene Rocchi
Hydraulic properties of rooted soils from Salix sp. Pot experiments

Coffee Break

16:30 to 18:00

Auditorium

Chair

Keynote Lecture

Annette Esnault Fillet (Soletanche-Bachy, France)
Industry perspective in soil improvement by biocementation.

Keynote Lecture

Leon Van Paasen (Arizona State University, USA)
To be defined

Closure EUNSAT 2025 +BGE

EUNSAT2025 + BGE
1 to 3 September 2025



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