The workshop, organized by the Universities of Campania L. Vanvitelli, Napoli Federico II, Roma Tor Vergata, Salerno, and Trento, is the concluding event showing the main results of two research projects.

The organization is supported by EFFE ERRE Congressi.

Organization

The event will be held on-site at the Faculty of Engineering in Naples, at Piazzale V. Tecchio 80, and will be open to scholars attending online, who will be able to participate actively. **Participation is free.** To attend the event, please fill out the pre-registration form on the workshop website:https://uninanaples.wixsite.com/roots/general-1

Contact:
openworkshop2026@gmail.com

WEB SITE

Open Workshop

on-site & virtual

Naples, February 26-27, 2026

SLOPE INSTABILITY IN UNSATURATED SOILS AND NATURE-BASED MITIGATION MEASURES

Second bulletin

PROGRAMME

February, 26, 2026

14:30 Institutional greetings

14:45 Opening lecture: A. Tarantino (Univ. of Strathclyde). *Integrated Monitoring of Soil, Plant, and Atmosphere to Investigate Slope–Climate Interactions*

Session I - SLOPE INSTABILITY IN UNSATURATED SOILS (Chair: A. Flora, Univ. di Napoli Federico II)

15:30 M. Pirone (Univ. di Napoli Federico II). *Presentation of the PRIN project: "PROMISE"*

15:35 G. Vitiello (Univ. di Napoli Federico II). *Hydro-Mechanical Behaviour of Unsaturated Pyroclastic Soils: Laboratory Experimental Investigation*

15:55 G. D'Alessio (Univ. di Roma Tor Vergata). *Hydro-Mechanical Behaviour of Reconstituted Pyroclastic Soils: From Saturated to Unsaturated Conditions*

16:15 Coffee Break

16:35 M. Pirone (Univ. di Napoli Federico II). *Field Monitoring and Site Investigations for the Design and Execution of Full-Scale Tests*

16:55 G. Pedone (Univ. di Trento). *Numerical Modelling of Slope–Atmosphere Interaction: Challenges and Perspectives*

17:15 Keynote lecture: J. Vaunat (Univ. Politècnica de Catalunya). *Landslide triggering in unsaturated soils under atmospheric forcing*

18:00-18:45 DISCUSSION SESSION WITH REMOTE PARTICIPATION (Chair: L. Picarelli, Former Prof. of Soil Mechanics and Slope Stability, Univ. della Campania L. Vanvitelli)

19:00 *Social drink*

PROGRAMME

February, 27, 2026

Session II - NATURE-BASED MITIGATION MEASURES (Chair: M. Cecconi, Univ. di Perugia)

09:10 G. Urciuoli (Univ. di Napoli Federico II). *Presentation of the PRIN PNRR project: "Green Land"*

09:15 L. Comegna (Univ. della Campania L. Vanvitelli). *Test site on a vegetated pyroclastic slope: characteristics of soils and vegetation*

09:35 M. Calvello (Univ. di Salerno). *Test site on a vegetated pyroclastic slope: hydrogeological monitoring results*

09:55 G. Sequino (Univ. della Campania L. Vanvitelli/CMCC). *Quantitative interpretation of the vegetation's role from a test site*

10:15 Invited speaker: V. Tagarelli (Politecnico di Bari). *The soil–vegetation–atmosphere interaction for nature-based landslide risk mitigation in a clayey slope*

10:35 Invited speaker: F. Anselmucci (Univ. of Twente). *Bioengineering the vadose zone: how roots and fibers control soil hydraulics and pore structure*

10:55 Coffee Break

11:15 Keynote lecture: E. Romero (Univ. Politècnica de Catalunya). *Root–unsaturated soil interactions as a basis for vegetation-based approaches*

12:00-12:45 DISCUSSION SESSION WITH REMOTE PARTICIPATION (Chair: F. Cotecchia, Politecnico di Bari)

12:45-13:15 CLOSURE

13:45 *Social lunch*

Scientific and Organizing Committee

Michele Calvello
Università di Salerno

Francesca Casini
Università di Roma Tor Vergata

Luca Comegna
Università della Campania Luigi Vanvitelli

Giuseppe Pedone
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- PRIN 2022 project *'Integrated appPROach for MItigation of flowSlidE risk: full-scale test and advanced numerical modelling'* – (*PROMISE*, prot. 2022KL5792)
- PRIN 2022 PNRR project *'Towards a safe and low carbon future: a "green" approach to landslide risk mitigation'* (*Green Land*, prot. P20223WY2L)