



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](mailto:openworkshop2026@gmail.com)

[WEB SITE](https://uninanaples.wixsite.com/roots/general-1)

Open Workshop  
*on-site & virtual*  
Naples, February 26-27, 2026



**SLOPE INSTABILITY IN  
UNSATURATED SOILS  
AND NATURE-BASED  
MITIGATION MEASURES**



Second bulletin

## SCIENTIFIC 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)

## SCIENTIFIC 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** (F. Cotecchia, L. Picarelli, E. Romero, J. Vaunat)

## Scientific and Organizing Committee

Michele Calvello  
*Università di Salerno*

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- PRIN 2022 project ‘*Integrated appPROach for MIItigation 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)