EGU27 GENERAL ASSEMBLY

Vienna & Online

4-9 April 2027

CALL FOR ABSTRACTS OPEN
Deadline: January 12th, 2027

SUBMIT YOUR ABSTRACT

PROGRAMME GROUP: SOIL SYSTEM SCIENCES (SSS) • CO-ORG: BG, ERE4, GI1, NH

Bio-Mediated, Bio-Inspired, and Bio-Based Solutions for Sustainable Geotechnics and Construction

Bio-Inspired Locomotion
Earthworm-, root- & seed-probes; self-burrowing robotics; probe–soil mechanics.

Root & Organism Biomechanics
Growth forces, tip penetration, anchorage, bioturbation & slope bio-stabilization.

Bio-Mediated Improvement
MICP, EICP, biopolymers, bio-grouting, dust control & pore-scale X-ray CT.

Bio-Stabilised Earthen Materials
Raw-earth, bio-cemented soils, natural fibres; hygrothermal and durability performance.

Sustainability & Life-Cycle (LCA)
Environmental LCA, LCCA cost analysis & social S-LCA for low-carbon geomaterials.

Convening Team:
Lead: Floriana Anselmucci; **Co-conveners:** Fernando Patino Ramirez, Tomoya Nagayama, Magda Posani, Joao Santos

★ Early Career Scientists (ECS) Strongly Encouraged
- Experimental, Field & Numerical contributions
- Multi-scale imaging