




Workshop AGLC dei Giovani Ricercatori, pre-evento del 44° Convegno NGTGS				  	
AGLC Young Researcher Workshop, preceding the 44° NGTGS Conference					
	2/2/2026			3/2/2026	
09:30	Introduzione da parte di AGLC/AGLC Introduction			convenors: Rocco Ditommaso (UniBas); Chiara Bedon (UniTS)	
	convenors: Davide Zaccagnino (SUSTech, China) ; Leonardo Colavitti (UniGE)	Tema1/the me 1	09:30	Preventive Governance of Natural Risks: Social Vulnerability and Legal Tools in Territorial Contexts	Siria Canciani
09:45	Interseismic coupling degree of the Northern Apennine Arc in Emilia Romagna region, (Italy)	Salvatore Giuffrida	09:45	Record selection for seismic microzonation studies in Campi Flegrei area: local ground motion features and analysis challenges	Tommaso Castelbarco
10:00	Understanding Volcano Dynamics by Unsupervised ML Clustering of Seismic Signals: A Case Study at Mount Etna	Waed Abed	10:00	Territorial vulnerability and Contractual Choices in Risk Prevention Policies	Luca De Angelis
10:15	On the use of the ACE Climate Model Emulator to investigate the climatic impact of volcanic activity	Lorenzo Basile	10:15	Nonlinear static vs. dynamic seismic analysis of masonry aggregates: a case study in Southern Italy	Roberta Di Chicco
10:30	Analytical modelling of thermo-poro-elastic spherical sources in a half-space, with application to Vulcano Island (Italy)	Samuel Battolini	10:30	Assessment of earthquake-induced road interruption in a virtual testbed	Mariano Di Domenico
10:45	Enhancing earthquake monitoring with fiber-optic networks via automatic data selection	Emanuele Bozzi	10:45	A Harmonized Toolkit for Disaster Preparedness: Simulating Emergency Response System Performance in Cross-Border Urban Areas.	Beatrice Di Napoli
11:00	Interpretation of corrected sea floor HVSR data on a gas emitting structure in the Sea of Marmara	Albachiara Brindisi	11:00	Assessing the Effectiveness of FinDer-Based Earthquake Early Warning in Northeastern Italy	Fangqing Du
11:15	Break 15'		11:15	Break 15'	
	Convenors Eleonora Amato (INGV); Francesco Zuccarello (INGV)	Tema1/Theme 1		convenors: Rocco Di Tommaso (uniBas); Chiara Bedon (UniTS)	Tema2/The me 2
11:45	Investigating Fault Behaviour on Mt. Etna's Eastern Flank through Sentinel-1 InSAR Time Series (2015–2020)	Steven Jeffrey Brooks	11:45	Assessing Earthquake Early Warning Feasibility at the NITRO Near-Fault Observatory	Simone Francesco Fornasari
12:00	Physics-Based Broadband Ground Motion Simulations of the Mw 6.2 April 2025 Istanbul Earthquake	Arianna Cuius	12:00	Exploring Ground-Motion Variability through Synthetic Scenarios in Central Italy	Marta Freddi
12:15	High-Frequency Monitoring of Volcanic Plumes over Europe Using the Sentinel-4 Mission aboard MTG-S	Giovanni Di Bella	12:15	Addressing Inequalities in Disaster Risk through Participatory Research: Evidence from REACT and PREPSHIELD	Paola Maffi
12:30	Ambient Noise Tomography of Campi Flegrei caldera (Naples, Italy): High Frequency Phase-Velocity Anomalies beneath the Solfatara–Pisciarelli Hydrothermal System	Ciro Di Dato	12:30	Seismic Waveforms Envelopes Analysis for Stochastic Simulations	Fadel Ramadan

12:45	Automated Detection of Recent Mud Extrusions Using UAV Imagery and Deep Learning: A Comparative Analysis of Traditional and CNN-Based Approaches	Massimiliano Guastella	12:45	Preliminary validation of a Physics-based Simulated Ground-Motion Database	Giovanni Smiroldo
13:00	Modelling the effects of gravitational instabilities on subduction zone initiation at passive margins	Valeria Fedeli	13:00	pranzo/lunch	
13:15	pranzo/lunch			Convenor:Andrea Barone (CNR-IREA)	Tema 3/Theme 3
	Convenor: Massimo Nespoli (UniBO), Rossella Fonzetti (INGV)	Tema 1/Theme 1	14:00	Integrating geophysical methods to characterize active paleo-landslides in Belgium	Agnese Innocenti
14:15	A Review of 40 Years of Instrumental Seismicity for the Study of Hidden Seismogenic Structures in Southeastern Piedmont	Francisca Guíñez Rivas	14:15	Full Waveform Inversion by means of Implicit Neural Representation: Application to Field Data from a Geothermal Area	Fabio Macelloni
14:30	Laboratory Seismic Characterization of the Adriatic Plate Lithospheric Mantle and Continental Crust	Maria Camila López Suárez	14:30	Full-3d ERT sequences for archaeological prospection: comparison of different strategies	Antonio Merico
14:45	Magma chamber failure and dyke injection threshold for magma-driven unrest at Campi Flegrei caldera	Jacopo Natale	14:45	Time-lapse monitoring at the Svelvik CO2 Field Lab: survey design	Giovanni Pantaleo
15:00	Time Series of Radon in the Etna Area: Integrated Analysis with Meteorological, Seismic, and Volcanic Data (2022-2025)	Giuseppina Stissi	15:00	Advancing petrophysical coupling of electrical and seismic tomographic data including shear waves	Guido Penta de Peppo
15:15	I-HADES: A seismic event locator combining deep learning with distance geometry methods	Guglielmo Vullo	15:15	break 15'	
15:30	break 15'			Convenor:Sean Berti (UniPI)	Tema 3/Theme 3
	Convenor: Luigi Bianco (UniNA)	3+1/Theme 3+1	15:30	Cross-gradient joint seismic full-waveform and electrical resistivity inversion	Felipe Rincón
15:45	Joint inversion of inductive and galvanic data: significant resolution improvement honouring both data types – 3D EM and 2D DCIP	Jian Chen	15:45	ADERT: Automatic differentiation-based electrical resistivity tomography	Felipe Rincón
16:00	A synthetic study of the cosmic ray neutron sensing detector response to heterogeneous soils and moisture content distribution	Viola Cioffi	16:00	Investigating Borehole TDIP Response in the Ivrea-Verbanò Zone (ICDP-DIVE project): Linking Chargeability to Mineral Distribution from SEM and MicroCT Data	Ivana Ventola
16:15	Induced Polarization effects in airborne EM systems: fixed-wing and helicopter-borne measurements	Francesco Dauti	16:15	Full-3D Electrical Resistivity Tomography (ERT) for sinkhole assessment and gypsum mining planning	Andrea Vergnano
16:30			16:30	Conclusione da parte di AGLC/AGLC Conclusions	
16:45	XAI-Driven rainfall threshold estimation integrating GNSS data on a large landslide	Rachele Franceschini			
	Temporal Changes in Soil Elastic Parameters ($\Delta V/V$, $[\Delta f]_0$) and their Interdependence	Beatrice Tiboni			