

**Detailed Program of oral presentation  
(last update January 27)**

**ROOM A - February 11**

**S1.3  
Physical models for the Solid Earth and integration between modeling and data of different nature**

*Anna Maria Marotta (UniMI)  
Carla Braitenberg (UniTS)  
Massimo Nespola (UniBO)  
Barbara Orecchio (UniME)*

**Cenozoic dynamics and anorogenic volcanism of the Central Mediterranean: insights from geodynamic modelling**

J. Yang, M. Faccenda, S. Conticelli

**Investigating the effects of a laterally varying surface temperature on calculated rheology**

J. B. May, M. M. C. Carafa, P. Bird

**Thermo-mechanical effects of microcontinent subduction**

A. Regorda, M. Roda

**3D modelling of intermontane basins development: a case study of Agri Valley (southern Italy)**

A. Lavecchia, M. Filippucci, T. Stabile, G. Prosser, A. Tallarico

**Dynamics and Structure of the Adria subduction zone: Insights from Seismic Imaging and Analog Modeling**

I. Menichelli, I. Molinari, C. Piromallo, F. Funicello, C. Chiarabba

**Oceanic geodiversity along back-arc spreading centers reveals analogies with mid-ocean ridges**

C. Palmiotto, F. Muccini, E. Ficini, M.F. Loreto, M. Cuffaro

**Revisiting Climate Impacts of Catastrophic Volcanic Eruptions Through Satellite Observations: Insights from TOMS to TROPOMI**

A.B. Malaguti, F. Torrisi, E. Amato, S. Cariello, C. Corradino, G.S. Di Bella, A. La Spina, V. Zago, C. Del Negro

**Monitoring slow uplift and subsidence in shallow seafloor environments using bottom pressure measurements**

R. S. Morelli, R. Riccio, S. Guardato, F. Chierici, S. Caliro, G. Macedonio, G. Iannaccone

**Investigating regional and local tectonic patterns through boundary analysis techniques: the case study of Campi Flegrei caldera**

M. Perrini, A. Barone, P. Tizzani, R. Castaldo

**ROOM B - February 11**

**S2.1  
Earthquake and tsunami hazard: different return periods, different conceptual schemes and models in a continuum spectrum of time**

*Daniela Di Bucci (DPC)  
Dario Albarello (UniSI)  
Bruno Pace (UniCH)*

**14:00 Physics-informed numerical modeling of long-term memory in seismic activity**

S. Barani, M. Taroni, D. Zaccagnino, G. Petrillo, P. Artale Harris, S. Azhideh

**14:15 A Comprehensive Approach to Floating Ruptures in Probabilistic Fault Displacement Hazard Assessment: Applications to Hypothetical Case Studies**

S. Bonini, O. Scotti, A. Valentini, F. Visini, G. Tartaglia, G. Viola, G. Vignaroli

**14:30 Prototypal Implementation of Probabilistic Fault Displacement Hazard Assessment Using the OpenQuake Engine Components**

Y. Chen, M. Pagani, H. Fernandez, L. Peruzza

**14:45 Analysis of GNSS data along the Southern Gas Corridor and estimate of the expected displacement**

G. Rossi, R. Caputo, D. Zuliani, P. Fabris, M. Maggini, P. Karvelis

**15:00 Numerical Modelling of Surface Rupture Probabilities on Principal Fault**

L. Mammarella, F. Visini, P. Boncio, S. Baize, O. Scotti, C. Beauval, B. Pace, S. Thompson

**15:15 Scientific and ethical issues in creating ground shaking and surface faulting scenarios. Lessons from the planned bridge over the Messina Straits**

P. Burrato, G. Valensise

**15:30 DISCUSSION**

**15:45**

**16:30 Potential tsunami hazard related to offshore activities: case studies in the central Adriatic and southern Sicilian coasts**

C. Angeli, A. Armigliato, M. Zanetti, F. Zaniboni, S. Carcano, M. Forzese, L. Lipparini, I. Molinari

**ROOM C - February 11**

**S3.3  
Theoretical and Methodological Development in Applied Geophysics**

*Andrea Tognarelli (UniPI)  
Luca Masnaghetti (Sib)  
Gianluca Fiandaca (UniMI)*

**14:00 Optimized Transparent Boundary Conditions for Wave Propagation**

G. Roncoroni, B. Arntsen, E. Forte, M. Pipan

**14:15 Denoising Microseismic Distributed Fiber-Optic Sensing (DFOS) data through a Spectral Subtraction-based Approach**

G. Pascucci, S. Gavianio, F. Grigoli

**14:30 An automated and data driven framework for refraction statics computation**

D. Scarpellini, S. Re

**14:45 Fast gravity processing by linear regression of Free-Air anomalies against topography**

G. Florio, L. Ricciardi, T. Pivetta

**15:00 Localized power spectrum of potential field data**

M.A. Abbas, M. Milano, M. Fedi

**15:15 A New Bathymetry Model for the Larsen Iceshelf Using Gravity Data**

M. Maiolino, M. Fedi, G. Florio

**15:30 Simultaneous estimation of basement depth and density contrast from gravity anomalies via multi-task Deep Learning**

L. Wang, G. Florio, M. Fedi, C. Messina, S. Xiong and W. Wang

**15:45 Three-dimensional AEM inversion considering IP effect for mineral exploration**

J. Chen, B. Zhang, G. Fiandaca

**16:30 Joint analysis of seismic and electromagnetic data in studying a near-surface offshore section: approaches and examples**

A. Mirinets, A. Bobachev, S. Mironyuk, M. Aleshin

**ROOM D- February 11**

<b>Towards autonomous lava flow simulations using the Markov Chain Monte Carlo paradigm</b> <i>AG/LC</i>	16:45	<b>Submarine landslide-tsunami scenarios in the Gela Basin Margin: numerical simulations and hazard assessment</b>	16:45	<b>Joint inversion of potential fields data and seismic images</b> <i>AG/LC</i>	16:45
F. Zuccarello, G. Bilotta, F. Cannavò, A. Cappello, G. Ganci		F. Zaniboni, M. Rovere, A. Argnani, C. Angeli, E. Paolucci, M. Zanetti, A. Armigliato		Bianco L., Fedi M.	
<b>Enhancing GNSS Velocity Estimation in Hydrologically Active Regions</b>	17:00	<b>DISCUSSION</b>		<b>Assessment of Minimum Entropy Full Waveform Velocity Analysis</b> <i>AG/LC</i>	17:00
F. Pintori, A. Borghi, E. Serpelloni				E. Ligas, N. Bienati, M. Pipan	
<b>An automatic waveform modeling method to estimate source and attenuation parameters for earthquakes</b> <i>AG/LC</i>	17:15	<b>Possible Lithosphere-Atmosphere-Ionosphere Coupling before three earthquake doublets around Arabian Plate</b>	17:15	<b>Comparison of probabilistic approaches to acoustic FWI in compressed model and data spaces</b>	17:15
R. Petito Penna, A. Zollo, G. Russo, S. Nazeri, G. De Landro		D. Marchetti, E. Ghamry, M. Metwaly		F. Macelloni, S. Berti, M. Aleardi, E. Stucchi	
<b>Vp/Vs Ratio and Crustal Thickness of the Greater Alpine Crust Using H-κ Stacking</b> <i>AG/LC</i>	17:30	<b>Construction of a Ground Motion Flat File for Subduction Earthquakes in the Mediterranean Area</b>	17:30	<b>Surface waves full waveform inversion using the Annealed Stein Variational Gradient Descent</b>	17:30
H. B. Roisenberg, L. Boschi, F. Cammarano		B. Shoaib, G. Lanzano, L. Luzi, E. Tondi		S. Berti, M. Aleardi, M. Ravasi, E. Stucchi	
<b>Multi-scale attenuative imaging of the Collalto UGS area and the Montello thrust system (eastern Southern Alps, Italy)</b> <i>AG/LC</i>	17:45	<b>Seismic Hazard Maps in the Vrancea Zone, Romania, using a 3D Adaptive Smoothing Approach</b>	17:45	<b>Optimization of rock-physics inversion via FWI and deep learning tools</b> <i>AG/LC</i>	17:45
D. Talone, M. A. Romano, L. De Siena, M. Guidarelli, M. Santulin, L. Peruzza, G. Lavecchia, R. de Nardis		C. Pandolfi, M. Taroni, A. Akinci		G. Pantaleo, M. Pipan	
<b>Causality in particle bursts and magnetic field (NOAA-SWARM) data possibly related to the Taiwan earthquake, Mw = 7.4, April 3, 2024</b>	18:00	<b>Sensitivity analysis for PFDHA logic trees: do all branches have thorns?</b>	18:00	<b>A simple theoretical model for electrical conductivity of a weakly anisotropic porous medium with two conducting phases</b> <i>AG/LC</i>	18:00
D. Marchetti, C. Fidani		M. Colombo, F. Ferrario, F. Livio		H. Yan, C. Comina	
<b>Test for the deployment of a GNSS-R Station in the Trieste Region: Advances in Ocean Tide measurement in the Adriatic</b>	18:15	<b>The role of "equation error" in empirical regressions for seismic magnitude conversions</b>	18:15	<b>Advances in Quantitative Interpretation: automated seismic reservoir characterization</b>	18:15
A. Fantoni, C. Braitenberg		P. Gasperini, B. Lolli and E. Biondini		A. Murineddu, M. Pezzoli	
<b>High-Precision Geometric Leveling between Udine and Basagliapenta: A Key Method for Detecting Recent Tectonic Deformations at the Eastern Southern Alps Front (NE Italy)</b>	18:30	<b>DISCUSSION</b>	18:30		18:30
A. Marchesini, A. Pellegrinelli, G. Patricelli, F. Carnemolla, L. Monti, D. Russo					

## ROOM A - February 12

### S1.1 Earthquakes, Active Faults and Seismogenic Processes: from Field Surveys to Laboratory Experiments

Paolo Galli (DPC)  
Angela Saraò (OGS)  
Stefano Solarino (INGV)  
Simone Bello (UniCH)

**Reassessment of the historical earthquake of 23 February 1887 in Liguria (northwestern Mediterranean) on the basis of magnetogram recordings**  
*AG/LC*

G. Tarchini, S. Parolai, D. Spallarossa, D. Sandron

**Investigating the active Faults affecting Ionians Islands, Western Hellenic Arc**

M.F. Loreto, V. Ferrante, M. Ligi, F. Muccini, C. Palmiotto, L. Petracchini, S. Romano, A. Ganas, A. Argnani, A. Conti, M. Cuffaro, O. Kei, B. Fabrizio, A. Pensa, S. Kothri, D. Lampridou, I. Merino,

**Morphological mapping of geological risk elements offshore the Ionian Islands (Western Greece)**  
*AG/LC*

D. Bartolozzi, S. Kothri, P. Nomikou, M.F. Loreto, A. Ganas, V. Ferrante, D. Lampridou, E. Nikoli, C. Ranero

**The Contribution of 20 years of deep geoelectrical investigations in the High Agri Valley Basin**

## ROOM B - February 12

### S2.1 Earthquake and tsunami hazard: different return periods, different conceptual schemes and models in a continuum spectrum of time

Daniela Di Bucci (DPC)  
Dario Albarello (UniSI)  
Bruno Pace (UniCH)

**09:00 The impact of 1D seismostratigraphical amplification effects on probabilistic seismic hazard maps at regional scale: the case of Central Italy**

D. Albarello, N. Carfagna, P. L. Fantozzi

**09:15 Reconstruction of Subsoil in the Po Plain for a large-scale evaluation of seismic amplification effects**

G. Caielli, D. Rusconi, R. de Franco, I. Gaudiosi, G. Norini

**09:30 Large-scale Seismic Site Effect modelling through automated definition of the Stratigraphically Homogeneous Zones: the case of Basilicata Region**

A. D'Agostino, A. Porchia, I. Gaudiosi, G. Tortorici, S. Catalano

**09:45 A statistical analysis on soil response at the Italian Seismic Network: the CRISP database**

## ROOM C - February 12

### S3.3 Applied geophysics for energy, environment, and new technologies

Vincenzo Lipari (OGS)  
Paolo Mazzuchelli (ARESIS)  
Erika Barison (OGS)

**09:00 Geophysical Multi-Messenger Approach to Characterizing Geothermal Systems: First Insights from Contursi Terme, Southern Italy**

O. Amoroso, V. Giampaolo, M. Balasco, M. Blasone, P. Capuano, G. De Martino, F. Napolitano, A. Perrone, S. Panebianco, V. Serlenga, T.A. Stabile

**09:15 Joint interpretation of geophysical data for evaluating the geothermal energy potential in the Romagna and Ferrara Folds (Italy)**

R. Basant, M. Tesauero, V. Cortassa, G. Gola, T. Nanni, A. Galgaro, A. Manzella

**09:30 Integrated geological modelling for assessing geothermal potential in the Romagna and Ferrara Folds (Italy)**

V. Cortassa, M. Tesauero, R. Basant, G. Gola, T. Nanni, A. Galgaro, A. Manzella

**09:45 Subsurface masses monitoring at Theistareykir geothermal field, Iceland, using hybrid gravimetry**

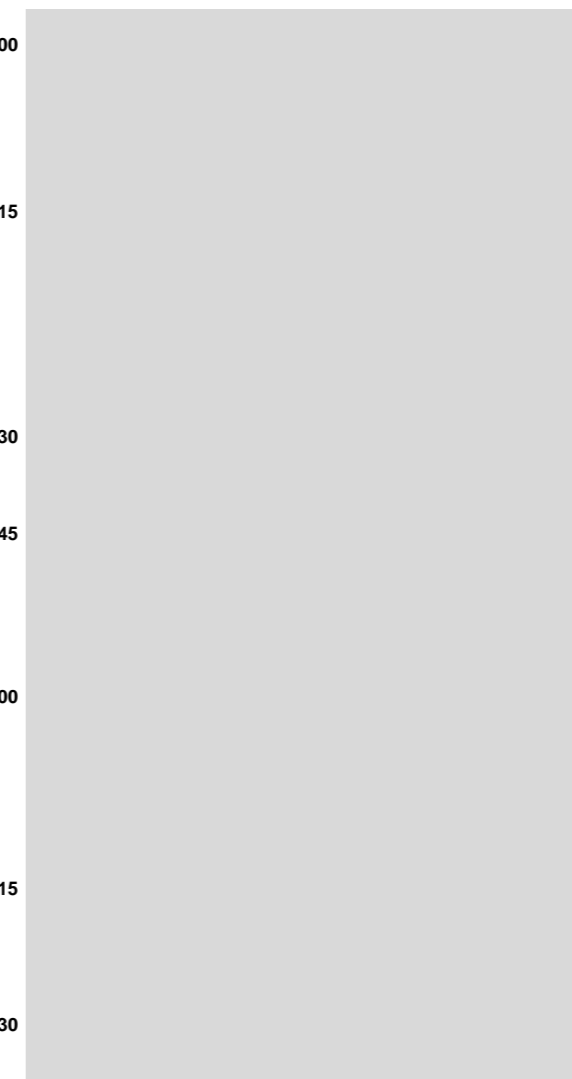
## ROOM D - February 12

V. Giampaolo, G. De Martino, L. Capozzoli, F. Olita, G. Prosser, G. Palladino, I. Giano, E. Rizzo	A. Mercuri, G. Cultrera	B. Giuliani, P. Jousset, J. Hinderer, U. Riccardi, T. Pivetta, A. K. Mortensen, P. Weis, C. M. Krawczyk.
<b>Investigating the Deep Volturno Plain: Structural insights from integration of vintage Seismic, Gravity and Magnetic data</b>	<b>10:00 Possible measure of soil factors in the Italian seismic code</b>	<b>10:00 GEOTHERMOS: a new Matlab code for geothermal potential assessment</b>
P. P. Bruno, M. L. Putignano, F. Cella, G. Florio	E. Paolucci, D. Albarello	G. Gola, M. Cornetto, M. Basant, V. Cortassa, A. Galgaro, M. Gizzi, T. Nanni, M. Tesauero, F. Vagnon, A. Manzella
<b>Active tectonics and seismicity in the central Adriatic and at the front of the southern Dinarides</b>	<b>10:15 Empirical estimates of Site Amplification Factors in Italy</b>	<b>10:15 Bottom hole temperature correction for geothermal potential assessment: the Eastern Po Plain case study</b>
A. Argnani, G. Dalla Valle	S. Hailemikael, G. Cultrera, A. Peloso, G. Martini, C. Barnaba, G. Laurenzano, G. Lanzano, S. Sgobba, M.R. Gallipoli, WP6_PRIN-SERENA working group	T. Nanni, G. Gola, V. Cortassa, A. Galgaro, M. Tesauero, R. Basant, A. Manzella
<b>Fault inheritance and the control of large earthquakes and aftershocks</b>	<b>10:30 An updated Vs30 map of Italy integrating topographic and geological proxies with extensive geophysical measurements</b>	<b>10:30 DISCUSSION</b>
R. Fonzetti, M. Buttinelli, L. Valoroso, P. De Gori, C. Chiarabba	G. Brunelli, G. Lanzano, L. Luzi, S. Sgobba, E. Thompson, C. B. Worden, D. J. Wald	
<b>DISCUSSION</b>	<b>10:45 DISCUSSION</b>	<b>10:45</b>
<b>COFFEE BREAK/POSTER</b>	<b>11:00 COFFEE BREAK/POSTER</b>	<b>11:00 COFFEE BREAK/POSTER</b>
<b>An observatory of Italian and European seismicity: the Gazzetta di Parma [1767-1796] in the second half of the 18th century</b>	<b>11:30 Geological and stratigraphic setting of the metropolitan area of Milan (Italy): implications for site-dependent seismic hazard assessment through high-resolution geophysical investigation</b>	<b>11:30 High-resolution gravity modelling of Pantelleria Island (Southern Italy)</b>
S. Baranello	S. Lovati, R. Puglia, S. Maraio, F. E. Maesano, E. Ferrari, G. Brunelli, F. Varchetta, A. Rizzo, F. Villani, M. Massa	L. Ricciardi, G. Florio, S. Carlino, T. Pivetta, U. Ricciardi, M. Sposato, L. S. Zampa, G. Ferrara, M. G. Di Giuseppe
<b>Updating knowledge on 18th century Carnia earthquakes</b>	<b>11:45 NTC18 Standard: Topographical Conditions in the Siena Case Study – Application and Verification</b>	<b>11:45 Airborne IP driven exploration for greenfield exploration: an application in the Horizon SEMACRET project</b>
M.S. Barbano, S. Baranello, A. Rossetti, V. Castelli, R. Camassi	M. Ariano, P.L. Fantozzi, D. Albarello	F. Dauti, A. Viezzoli, G. Fiandaca
<b>Improving the quality of the seismic catalogue. Case histories from the Marches (1897-1916-1972)</b>	<b>12:00 Realization of the database of seismostratigraphic features of seismically homogeneous microzones throughout the country</b>	<b>12:00 Multiscale and multihomogeneity analysis of time lapse gravity data for CO2 mass estimation at Sleipner</b>
V. Castelli, A. Tertulliani, R. Camassi, A. Rossetti	M. Ariano, P. L. Fantozzi, D. Albarello	M. Milano, L. Bianco, M. Fedi
<b>Compilation of macroseismic datasets by integrating multiple earthquake studies</b>	<b>12:15 1D response analysis of seismic stations in ITACA for S Microzonation purposes</b>	<b>12:15 DISCUSSION</b>
A. Tertulliani, A. Antonucci, F. Bernardini, V. Castelli, E. Ercolani, L. Graziani, A. Maramai, M. Orlando, A. Rossi, T. Tuvè	T. Castelbarco, G. Lanzano, G. Brunelli, S. Sgobba, F. Pacor, L. Luzi, F. Pergalani	
<b>Impact of uncertain intensity assessments on the earthquakes' parameters of CPTI15</b>	<b>12:30 A new urban seismic network for the city of Trieste. Where to place it?</b>	<b>12:30</b>
A. Antonucci, P. Augliera, M. Locati, A. Rovida	F. Parentelli, C. Beltrame, S. F. Fornasari, V. Pazzi, G. Moschion, G. Costa	

**ASSEMBLEA UNIONE GEOFISICA ITALIANA (UGI)  
(11:30-13:00)**

Back-Analysis of the January 2017 earthquake-avalanche cycle in the Central Apennines M. Barbolini and P. Gasperini	12:45	DISCUSSION	12:45	12:45			
<b>Lunch</b>	13:00	<b>Lunch</b>	13:00	<b>Lunch</b>	<b>Lunch</b>		
Hunting for the 1688 Earthquake Seismogenic Fault: Multimethodological Analysis in the Sannio area, Italy A. Capozzoli, V. Paoletti, S. Porfido, A.M. Michetti, A. M. Esposito, R. Nappi	14:00	Presentation of poster session by the Convenors	14:00	Between acceptance and preparedness: An ex-ante assessment for EEWS L. Cugliari, C. Ladina, S. Marzorati, A. Amato, C. Valbonesi, P. Pierleoni	14:00	<b>ASSEMBLEA SEZIONE ITALIANA EAGE-SEG (14:00-16:00)</b>	
Seismic history and active deformation of the frontal Himalayan belt: insights from preliminary morphotectonic analysis M. Dhali, N. Parrino, A. Ansari, P. Burrato, J. Malik	14:15	The statistical correlations between the electric oscillations detected by CIEN and moderate seismic activity C. Fidani, D. Marcelli	14:15	14:20 Enhancing seismic resilience in Italian hospitals: A Web-AR app tool S. Zidarich, D. Reitano, G. Musacchio, M.G. Sestito, C.R. Addeo, M. Crescimbene, S. Mazza, D. D'Angela, G. Magliulo	14:30		
Geological faults and coseismic ruptures: two sides of the same coin? M. F. Ferrario, F. Livio, L. Serva	14:30	Developing and Evaluating Spatial and Temporal Earthquake Forecast Models: A Methodological Framework and Case Study for Italy F. Visini, A. Valentini	14:30	14:40 Combining traditional sensors and social media for landslide hazard assessments R. Franceschini, A. Rosi, M. Del Soldato, F. Catani, N. Castelli	14:45		
New paleoseismic constraints for the Mw ~7, 1857 earthquake in southern Italy. P. Galli, E. Peronace, S. Bello, F. Brozzetti, A. Galderisi, G. Naso, A. Pignalosa, G. Benedetti, M. Comedini	14:45	Probabilistic Earthquake Forecasting in Italy: Bridging the Gap Between Alarm-Based and Likelihood-Based Models E. Biondini, B. Lolli, P. Gasperini	14:45	15:00 The Instagram channel @INGVterremoti M. Pignone, C. Meletti, C. Nostro, E. Casarotti, A. Amato, C. Rossi, A. Coppotelli, A. Codeluppi, V. Arena	15:00		
Quaternary morpho-sedimentary and tectonic evolution of the Calore River valley (southern Italian Apennines): insights into the potential seismogenic source of the Mw ~7.0, 1456 and 1688 Sannio earthquakes. V. Amato, S. Ciarcia, P. Galli, D. Cicchella, A. Galderisi, L. Monaco, G. Fernandez, R. Isaia, S. Nomade, A. Pereira, E. Peronace, B. Giaccio	15:00	The estimation of intensity in large urban areas: the case of the seismic history of Rome A. Tertulliani, L. Graziani, A. Rossi	15:00	15:15 An Extended Italian Dataset for the analysis of the Ground Motion-to-Intensity Conversion Equations (GMICES) E. Xhafaj, G. Lanzano, S. Sgobba, F. Pacor, A. Gomez-Capera	15:15		
Whispers from the Past: Structural-Geochemical Insights into the Silent Mt. Morrone Fault System S. Bello, P. Galli, M.G. Perna, E. Peronace, P. Messina, G. Rosatelli, C. Andrenacci, G. Lavecchia, F. Pietrolungo, A. Consalvo, V. Mouslopoulou, F. Brozzetti	15:15	DISCUSSION	15:30	DISCUSSION	15:30		
Paleoseismic evidence for the Sant'Eufemia-Lamezia 1638 earthquake (Mw 6.7; Calabria, southern Italy) P. Galli, F. Muto, E. Peronace, G. Naso, P. Vasta	15:30	DISCUSSION	15:45	DISCUSSION	15:45		
<b>DISCUSSION</b>	15:45	<b>DISCUSSION</b>	16:00	<b>DISCUSSION</b>	16:00		
<b>COFFEE BREAK/POSTER</b>	16:00	<b>COFFEE BREAK/POSTER</b>	16:00	<b>COFFEE BREAK/POSTER</b>	16:00		<b>COFFEE BREAK/POSTER</b>
		<b>S2.2 Science and technology to support earthquake prevention and preparedness</b>  Mauro Dolce (UniNA) Sara Sgobba (INGV) Maria Polese (UniNA)					
Testing plate-motion steadiness over the earthquake cycle G. Iaffaldano	16:30	Introduction and mention of the Posters (focus on the Posters related to the themes of the day)	16:30		16:30	<b>CHALLENGE BOWL (16:30-18:45)</b>	
Reconciling laboratory, small and large fault frictional properties D. Zaccagnino, O. Bruno, C. Doglioni	16:45	1D stratigraphic modelling vs experimental seismic amplification: can a possible convergence exist? The case of Val d'Agri M.R. Gallipoli, G. Calamita, G. Laurenzano, P. Taverna, P. Klin, G. Tortorici, S. Catalano, C. Barnaba	17:00		16:45		

<b>Reconciling laboratory, small and large fault frictional properties</b>	<b>17:00 Empirical amplification factors for seismic microzonation studies in volcanic regions: the study case of Mt Etna</b>	<b>17:00</b>
S. Giuffrida, L. Anderlini, S. Graham, F. Carnemolla, F. Brighenti, G. de Guidi, F. Cannavò, R. Caputo	G. Laurenzano, C. Barnaba, M. Romanelli, G. Lanzano, G. Brunelli, C. Felicetta, F. Pacor, G. Tusa, R. Azzaro, G. Tarchini, D. Spallarossa	<b>17:15</b>
<b>Enhanced seismological imaging in the Molise-Sannio region: preliminary results from the MOSAICMO Project</b>	<b>17:15 Comparison between the seismic amplification values obtained from the Italian second-level microzonation (SM2) abacuses and numerical simulation in Friuli Venezia Giulia region</b>	<b>17:15</b>
D. Latorre, L. Improta, S. Bagh, A. Marchetti, P. De Gori, P. Lucente, G. Riccio, S. Puccillo, R. Cogliano, C. Montuori, S. Monna, L. Valoroso, P. Baccheschi, D. Piccinini	C. Beltrame, P. Taverna, G. Peressi, V. Pazzi, G. Costa	<b>17:30</b>
<b>Seismic Coupling Coefficient for China region: preliminary results</b>	<b>17:30 Local seismic hazard analysis for the new territorial plan of the Province of Ferrara</b>	<b>17:30</b>
F. Sparacino, B.G. Galuzzi, M. Palano, R. Azzaro	G. Carloni, L. Martelli	<b>17:45</b>
<b>Identifying seismogenic sources in south-eastern Piedmont by analysing instrumental seismicity recorded over the past 40 years</b>	<b>17:45 Physics-based simulation of 3D seismic site effects: Case study of the lower Sarca Valley (Trentino, Italy)</b>	<b>17:45</b>
F. Guiñez Rivas, S.C. Vinciguerra, C. Comina, F. Bosco, G.M. Adinolfi	P. Klin, I. Primofiore, L. Zampa, M. Garbin, A. Viganò, C. Barnaba, F. Palmieri, G. Laurenzano	<b>18:00</b>
<b>Microseismicity characterization in the normal faulting environment of Southern Apennines using short-term dense monitoring</b>	<b>18:00 Seismic-induced liquefaction hazard along the Emilia-Romagna coast</b>	<b>18:00</b>
F. Scotto di Uccio, G. Festa, T. Muzellec, P. Martínez-Garzón, M. Picozzi, A. Scala, G. Camanni, G. De Landro, M-A. Meier, G. Beroza, A. Zollo	L. Martelli	<b>18:15</b>
<b>Passive seismic survey around the Mefite d'Ansanto deep-CO2 degassing site (Southern Apennines, Italy)</b>	<b>18:15 Regional scale geophysical parametrization for the seismic amplification abacuses of Piedmont Region</b>	<b>18:15</b>
L. Valoroso, S. Bagh, S. Cianetti, P. De Gori, L. Improta, D. Piccinini, A. Marchetti and F. Di Luccio.	E. Paolucci, G.M. Adinolfi, C. Comina, P. Pieruccini	<b>18:30</b>
<b>Seismic noise characterization of the Buddusò – Ala dei Sardi wind park (Sardinia, Italy) and its impact on the Einstein Telescope candidate site</b>	<b>18:30 DISCUSSION</b>	<b>18:30</b>
G. Diaferia, C. Giunchi, M. Olivieri, I. Molinari, F. Di Felice, A. Contu, D. D'Urso, L. Naticchioni, D. Rozza, J. Harms, A. Cardini, R. De Rosa, M. Di Giovanni, V. Mangano, F. Ricci, L. Trozzo, and C. Murineddu		<b>18:30</b>



**ROOM A - February 13**

**ROOM B - February 13**

**ROOM C - February 13**

**ROOM D - February 13**

**PNRR EVENT**  
**An outlook on some of the principal projects / partnerships**  
*Giuliana Rossi (OGS), Daniela Di Bucci (DPC)*  
*Angelo Masi (ReLUIS), Massimiliano Moscatelli (CNR)*  
*Claudia Piromallo (INGV), Andrea Tognarelli (EAGE-SEG)*

**09:00 GeoSciences IR**  
**A Research Infrastructure for the Italian Geological Surveys Network**  
 L.Guerrieri

**09:00**

**09:00**

**09:15 ITINERIS:**  
**Italian Integrated Environmental Research Infrastructures System**  
 V. Lapenna

**09:15**

**09:15**

**09:30 MEET:**  
**Monitoring Earth's Evolution and Tectonics**  
 G. Selvaggi

**09:30**

**09:30**

**09:45 RETURN:**  
**Multi-Risk sciEnce for resilient commUnities undeR a changiNg climate (extended partnership)**  
 D. Calcaterra

**09:45**

**09:45**

**10:00 ICSC-HPC :**  
**National Research Centre in High Performance Computing, Big Data and Quantum Computing**  
 E. Casarotti

**10:00**

**10:00**

**10:15 Space It Up :**  
**enhancing space technology for space exploration and exploitation for the planet Earth (extended partnership financed by ASI, MUR)**  
 F.Buongiorno

**10:15**

**10:15**

**COFFEE BREAK/POSTER**

**10:30**

**COFFEE BREAK/POSTER**

**10:30**

**COFFEE BREAK/POSTER**

**10:30**

**COFFEE BREAK/POSTER**

**11:00 GENERAL ASSEMBLY**  
 With intervents of prof. Nicola Casagli (OGS) and prof. Maria Cristina Pedicchio (APRE), including a discussion on the future of the research in Italy and Europe after PNRR with the presenters of the PNRR event; a memory of Giancarlo Monachesi; the AGLC premiation; the Marco Mucciarelli award premiation.

**11:00**

**11:00**

**Lunch**

**13:00**

**Lunch**

**13:00**

**Lunch**

**13:00**

**Lunch**

**S1.1 Earthquakes, Active Faults and Seismogenic Processes: from Field Surveys to Laboratory Experiments**  
*Paolo Galli (DPC)*  
*Angela Saraò (OGS)*  
*Stefano Solarino (INGV)*  
*Simone Bello (UniCH)*

**S2.2 Science and technology to support earthquake prevention and preparedness**  
*Mauro Dolce (UniNA)*  
*Sara Sgobba (INGV)*  
*Maria Polese (UniNA)*

**S3.2 Near surface geophysics**  
*Chiara Colombero (PoliTo)*  
*Emanuele Forte (UniTS)*  
*Michele Cercato (UniRoma)*


**S1.2 The role of geofluids in earthquakes, volcanoes and geothermal fields**  
*Mimmo Palano (UniPa)*  
*Francesca Forni (UniMI)*  
*Luigi Passarelli (INGV-BO)*

**Application of Cluster Analysis to earthquakes originating in Vulcano Island and surrounding areas between 2020 and 2022**  
 H. Langer, G. Barberi, C. Cassisi, O. Cocina, S. Falsaperla, S. Spampinato


**14:00 Seismic background noise levels in Campi Flegrei Caldera**  
 R. Esposito, L. Nardone, M. Orazi, D. Galluzzo, A. Benincasa, C. Buonocunto, A. Bobbio, P. Cantiello, A. Caputo, P. Cusano, W. De Cesare, A. Di Filippo, G. Gaudiosi, F. Liguoro, D. Lo Bascio, R. Manzo, C. Martino, R. Peluso, P. Ricciolino, G. Scarpato, M.A. Di Vito

**14:00 Groundwater modelling integration with geophysics**  
 S. Galli, A. Signora, J. Chen, F. Schaars, M. Groen, G. Sinatra, G. Mainetti, G. Fiandaca

**14:00 An effusive model for Volcanic eruptions**  
 C. Godano, M. Semeraro, G. Gonnella, G. Macedonio, F. Oliveri, P. Rogolino, A. Sarracino

**Optimizing Declustering Parameters for Enhanced Seismic Catalog Analysis: A Comparative Study of Gardner-Knoooff, Gruenthal, and Uhrhammer Models in Southern Italy**   
 M Guastella, A Figlioli, R Martorana, A Martorana

**14:15 Estimation of the site response function for accelerometric stations within Campi Flegrei**   
 S.F. Fornasari, G. Costa

**14:15 Time-Lapse Airborne EM for monitoring the evolution of a saltwater aquifer**   
 A. Signora, T. Munday, G. Fiandaca

**14:15 The first steps towards a preliminary 1D shear-wave velocity model of Pantelleria island**  
 R. Manzo, R. Esposito, L. Nardone, S. Carannante, E. D'Alema, A. Di Filippo, D. Galluzzo, G. Gaudiosi, F. Liguoro

<p><b>NESTORE algorithm: a machine learning approach for strong aftershock forecasting. Comparison of California, Italy, Western Slovenia, Greece and Japan results; preliminary analysis on new investigated regions</b></p> <p>S. Gentili, P. Brondi, R. Di Giovambattista, G. D. Chiappetta, G. Petrillo, J. Zhuang, L. Caravella, E.-A. Anyfadi, F. Vallianatos</p>	<p><b>14:30 Combined geophysical and geochemical surveys in Norcia intermountain basin (Italy)</b></p> <p>M. Massa, S. Lovati, R. Puglia, E. Ferrari, F. Linsalata, G. Brunelli, A. Figlioli, A. Randazzo, N. Voltattorni, E. Falcucci, S. Gori, M. Pischiutta</p>	<p><b>14:30 Quantitative integration of geoelectrical data for mapping of leachate plumes: application to a MSW landfill in Central Italy</b></p> <p>D. Melegari, G. De Donno</p>	<p><b>14:30 3D Audio-Magnetotelluric Imaging of Pantelleria Island for Geothermal Exploration</b></p> <p>M. Sposato, M.G. Di Giuseppe, R. Isaia, A. Troiano, C. De Paola, R. Di Maio</p>
<p><b>Non-linear elasticity, earthquake triggering and seasonal hydrological forcing along the Irpinia fault, Southern Italy</b></p> <p>S. Tarantino, P. Poli, N. D'Agostino, M. Vassallo, G. Ventafriida, G. Festa, A. Zollo</p>	<p><b>14:45 A Systematic Approach to Investigate Seismogenic Sources of Historical Earthquakes: Preliminary Results from Central Italy</b></p> <p>V. Gironelli, L. Luzi, T. Volatili, E. Tondi</p>	<p><b>14:45 Development and validation of an SPH model for simulating plastic transport in nearshore zone: A Laboratory – Scale Case Study</b></p> <p>R. Cristofaro, A. Cappello, G. Ganci, C. Iuppa, C. Faraci, G. Bilotta</p>	<p><b>14:45 MuRAT3: A new generation of Multi-Resolution Attenuation Tomography</b></p> <p>L De Siena</p>
<p><b>Microseismic full moment tensor parameters: case of Mefite d'Ansanto deep-CO2 degassing area (Southern Apennines, Italy)</b></p> <p>P. Roselli, F. Di Luccio, L. Valoroso, S. Bagh</p>	<p><b>15:00 Selecting earthquake magnitude and distance for seismic design</b></p> <p>R. Paolucci, A. Chiecchio, M. Vanini</p>	<p><b>15:00 Petrophysically coupling seismic refraction, resistivity and time domain induced polarization tomographic data for imaging of coastal aquifers</b></p> <p>G. Penta de Peppo, M. Cercato, G. De Donno</p>	<p><b>15:00 Reprocessing vintage seismic reflection profiles in the offshore Campi Flegrei Caldera</b></p> <p>P.P. Bruno, S. Di Maio, G. Ferrara, S. Vitale, J. Natale, M.A. Di Vito</p>
<p><b>Automatic Focal Mechanism Computation for Small-Magnitude Earthquakes in NE Italy</b></p> <p>F. Abdi, A. Saraò, A. Magrin, M. Sukan, G. Messuti, M. Picozzi</p>	<p><b>15:15 Regional-scale physics-based numerical simulations of multiple ground shaking scenarios in the Irpinia region (Southern Italy)</b></p> <p>M. Vanini, R. Paolucci, C. Smerzini, V. Hernandez, I. Mazzieri</p>	<p><b>15:15 Seismic reflection study of the evidence and causes of shallow fluid circulation offshore the Balearic Promontory</b></p> <p>V. Lupieri, A. Camerlenghi, A. Del Ben, S. Blondel</p>	<p><b>15:15 Spatiotemporal Distribution of Seismic Source Energy During the Recent Unrest Phase at Campi Flegrei, Italy</b></p> <p>E. Del Pezzo, F. Bianco</p>
<p><b>Moment magnitude (Mw) catalog for seismicity located in Northeastern Italy</b></p> <p>L. Moratto, G. Tarchini, A. Saraò</p>	<p><b>15:30 STPredict-WP3 Activity: Variability of seismic response in the historic center of Rome. First results from 1D simulations</b></p> <p>T. Tufaro, P. Bordoni, F. Di Michele, G. Di Giulio, D. Famiani, F. Marra, M. Vassallo, G. Riccio</p>	<p><b>15:30 Surface wave analysis for the mountain permafrost characterization</b></p> <p>I. Barone, A. Bast., S. J. Gaona Torres, M. Pavoni, J. Boaga</p>	<p><b>15:30 May 20, 2024, Md=4.4: The Strongest Campi Flegrei Earthquake ever recorded</b></p> <p>N.A. Pino, S. Danesi, G. Rapagnani, V. De Rubeis, S. Cesca</p>
<p><b>Spectral inversion for seismic source characterization in Northeastern Italy</b></p> <p>L. Cataldi, D. Spallarossa, M. Picozzi, M. D'Amico, P. Morasca, D. Bindi, V. Poggi, G. Costa, A. Viganò</p>	<p><b>15:45 DISCUSSION and Poster presentation (focus on the Posters relevant to the topics of the day)</b></p>	<p><b>15:45 Ambient seismic noise monitoring in permafrost regions: a case study from the Matterhorn Hörnligrat (Valais, Switzerland)</b></p> <p>V. Strallo, C. Colombero, S. Weber</p>	<p><b>15:45 Installation, Calibration, and Data Processing of the Superconducting Gravimeter at Rione Terra, Campi Flegrei caldera</b></p> <p>R. Casolaro, U. Riccardi, T. Pivetta, J. Hinderer, F. Littel, A. Fedele, G. Ricciardi, S. Carlino</p>
<b>COFFEE BREAK/POSTER</b>			
<p><b>A Generalized Inversion Technique for determining Source Parameters in the East Anatolian Fault Zone, Türkiye</b></p> <p>L. Colavitti, D. Bindi, G. Tarchini, D. Scafidi, M. Picozzi, D. Spallarossa.</p>	<p><b>16:30 Geological and Historical-Based Approaches to Define Scenario Earthquake in Italy</b></p> <p>S. Sgobba, E. Minotti, M. Freddi, L. Luzi</p>	<p><b>16:30 Clustering of combined Resistivity and Seismic measurements as a screening tool for river embankments</b></p> <p>A. Vergnano, D. Chieppa, A. Pasteris, C. Comina, C. Deangeli, L.V. Socco,</p>	<p><b>16:30 Evidence of fluid migration from the footwall to the hanging wall during the 2016 Amatrice-Visso-Norcia-Capitignano</b></p> <p>L. Malagnini, D.S. Dreger, F.P. Lucente, I. Munafò</p>
<p><b>Earthquake magnitude information in the early seconds of DAS recordings</b></p> <p>C. Strumia, A. Trabattoni, A. Scala, D. Rivet, G. Festa</p>	<p><b>16:45 Ground Motion Prediction Equations for the Campi Flegrei volcanic area</b></p> <p>A. Scala, C. Strumia, P. Cito, F. Scotto di Uccio, G. Festa, I. Iervolino, A. Zollo, A. Bobbio, V. Convertito, L. Elia, A. Emolo, A.G. Iaccarino</p>	<p><b>16:45 Electric resistivity tomography for identification of local anomalies along embankments: 2D or 3D inversion?</b></p> <p>F. Pace, A. Arato, A. Vergnano, C. Comina, M. Naldi, A. Godio, L.V. Socco</p>	<p><b>16:45 A multiparametric analysis of the recent unrest at Campi Flegrei, Italy</b></p> <p>S. Tarantino, P. Poli, M. Vassallo, N. D'Agostino, Stephane Garambois, Prospero De Martino</p>
<p><b>Comparison of deep learning and manual seismic arrival picking based on high-precision earthquake locations and tomographic inversions: an example from the Norcia 2016 earthquake</b></p> <p>S. Cianetti, A. Lomax, A. Michelini, C. Giunchi</p>	<p><b>17:00 ShakeMap constrained by observed damage</b></p> <p>A. Vitale, A. Rosti, M. Giorgio, I. Iervolino</p>	<p><b>17:00 TL-ERT and FDEM acquisitions for the monitoring of levees: test site Tatarena river (Trevi, Italy)</b></p> <p>P. Boldrin, B. Bonaccorsi, A. Benigni, G. De Martino, V. Giampaolo, S. Barbetta, M. Dionigi, G. Bossi, E. Rizzo</p>	<p><b>17:00 Insights into hydrothermal fluid flow dynamics at the Pisciarelli Fumarole Field (Campi Flegrei caldera, Italy) by integrating geophysical imaging and thermo-fluid dynamic numerical modelling</b></p> <p>R. Salone, A. Troiano, M.G. Di Giuseppe, R. Isaia, R. Di Maio</p>
<p><b>Simulating Broad-Band Ground Motions for M≥6.0 Events in Central Italy using a 1D Frequency-Wavenumber (FK) Approach and Kinematic Rupture Modeling</b></p> <p>P. Artale Harris, A. Pitarka, A. Akinci</p>	<p><b>17:15 Integrating CNN and supplemental building information to improve exposure models for regional risk assessments</b></p> <p>O. Ulku, M. Polese</p>	<p><b>17:15 2D FDTD GPR Forward Modelling for Cultural Heritage Preservation: an application on a historical masonry building in a seismogenic area (Norcia, Central Italy)</b></p> <p>G. Alaia, M. Ercoli, N. Cavalagli</p>	<p><b>17:15 From subsidence to uplift at Campi Flegrei and coheval deformation at Vesuvio from ERS/ENVISAT SAR data</b></p> <p>A. Amoroso, A. Gualandi, L. Crescentini</p>
<p><b>Conceptual and numerical analysis of hydrogeological changes in the Sibillini Mts. due to the Mw 6.5 Norcia earthquake</b></p> <p>E. Zullo, M. Albano, M. Saroli, M. Moro, G. Testa, N. Bonora, M. Petitta, T. Reimann, C. Doglioni</p>	<p><b>17:30 A rapid seismic classification of historic masonry buildings with risk matrices</b></p> <p>G. Cardani, E. Garavaglia, D. Aita</p>	<p><b>17:30 2D FDTD GPR Forward Modelling for Cultural Heritage Preservation: an application on a historical masonry building in a seismogenic area (Norcia, Central Italy)</b></p> <p>G. Alaia, M. Ercoli, N. Cavalagli</p>	<p><b>17:30 How the ground deformation drives the earthquake occurrence during the 2005-present time unrest at Campi Flegrei – Italy</b></p> <p>C. Godano, V. Convertito, A. Tramelli e G. Petrillo</p>
<p><b>Earthquakes and gravity (INVITED)</b></p> <p>M. Cocco</p>	<p><b>17:45 Parametric fragility study on a masonry building aggregate prototype within a minor historical area</b></p> <p>R. Di Chicco, A. Formisano</p>	<p><b>17:45 Geophysical and Remote Sensing Synergies for Subsurface Mapping in Urban Heritage Sites</b></p> <p>P. Ciampi, L.M. Giannini, S. Younsi, B. Burchini, R. Deiana, G. Cassiani</p>	<p><b>17:45 Monitoring of fluids and melt distribution beneath volcanoes: examples from Campi Flegrei and Etna</b></p> <p>G. Giacomuzzi, P. De Gori, N.P. Agostinetti, R. Fonzetti, E. Giampiccolo, C. Chiarabba</p>
	<p><b>18:00 Observational fragility models for URM buildings based on damage data from 2012 Emilia seismic sequence</b></p> <p>C. Monteferrante, N. Buratti</p>	<p><b>18:00 Historical building floor characterization thanks to GPR and LIDAR integration</b></p> <p>V. Pazzi, A. Innocenti, T. Beni, E. Marchetti</p>	<p><b>18:00 Seismological analysis of crustal anisotropy variations at Mt. Etna during the 2020-2021 period</b></p> <p>M. Avella, L. Zaccarelli, A. Garcia, O. Cocina, C. Musumeci</p>

Critical Observational Assessment of the Graviquake Hypothesis

L. Malagnini, D. Dreger, T. Parsons, G. Valensise, A. Michelini, G. De Natale

A vulnerability index for ordinary buildings in the Caldera of Campi Flegrei

G.Zuccaro, F.L.Perelli, D. De Gregorio

Historical building floor characterization thanks to optimizing survey strategies for full 3D ERT in archaeological prospection: the example of an ancient Roman villa in Augusta Bagiennorum

A. Vergnano, A. Merico, C. Comina

Path duration model for stochastic method of ground motion simulation at Mount Etna volcano

S.J. Brooks, G. Tusa

DISCUSSION

A 3D Accelerograms Selection Approach for Evaluating Structural Response in Near-Fault Scenarios

G. Giuliani, S. Sgobba, F. Micozzi, F. Ramadan, L. Ragni, G. Lanzano, L. Luzi, A. Dall'Asta

ROOM A - February 14

ROOM B - February 14  
S2.2 - Science and technology to support earthquake prevention and preparedness

Mauro Dolce (UniNA)  
Francesca Pacor (INGV)  
Maria Polese (UniNA)

ROOM C - February 14  
S3.2 - Near Surface Geophysics

Chiara Colombero (PoliTO)  
Emanuele Forte (UniTS)  
Michele Cercato (UniRoma)

ROOM D - February 14  
S1.2 - The role of geofluids in earthquakes, volcanoes and geothermal fields

Mimmo Palano (UniPA)  
Francesca Forni (UniMI)  
Luigi Passarelli (INGV-BO)

09:00 Quality of life in displaced earthquake survivors

L. Savadori, D. Di Bucci, M. Dolce, A. Galvagni, A. Patacca, E. Pezzi, G. Scurci, F. Del Missier

09:00 20 years after the SESAME guidelines: should anything be changed?

S. Castellaro

09:00 Monitoring fumarole emissions on the flanks of mount Etna and correlation with volcanic activity

F. Sortino, L. Calderone, S. Giammanco, C. Ferlito

09:15 Methodology proposed for a novel stochastic post-disaster recovery model for healthcare urban networks

F. Aloschi, A. Miano, F. Parisi, A. Prota

09:15 3D Geomodelling of Sulmona basin from geophysical and geological Data

C. Bondi, R. De Franco, G. Cavinato, A. Bistacchi, M. Romanelli, G. Caielli

09:15 Stratigraphy and eruptive history of the Pietre Cotte volcanic succession, Vulcano (Italy)

G. Panelli, M. Roverato, G. De Astis, F. Lucchi, J. Natale, R. Sulpizio, C. Tranne

09:30 The recovery process: from the past Italian earthquakes to a framework for enhancing the preparedness

M.P. Boni, L. Petrini

09:30 Local seismic response in intermontane basins with complex geological frameworks: the case study of the Cassino Plain (Italy)

V. Colagiaco, M. Albano, M. Saroli, M. Fiorucci, E. Zullo, M. Moro, F. Doumaz

09:30 Thermo-fluid dynamic characterization of Vulcano's active geothermal system through the integration of a 3D resistivity model and numerical simulations

C. Califano, R. Salone, A. Troiano, M. G. Di Giuseppe, R. Isaia, R. Di Maio

09:45 Earthquake-triggered Natech risk assessment: an application to industrial practice

A. Chiecchio, P. Poggi, E. Fiorini, M. Cademartori, M. Pontiggia, F. Ovidi, R. Paolucci

09:45 Toward a Comprehensive 3D Subsoil Model of L'Aquila for Integration into Seismic Hazard Models

I. Garofalo, M. M. C. Carafa, V. Kastelic, P. Monaco, M. Nocentini, M. Tallini

09:45 On the role of fluids in generating seismic activity at Vulcano, Italy, between September 2021 and December 2022

S. Falsaperla, H. Langer, S. Spampinato, O. Cocina

10:00 Seismic resilience-based strategies for prioritization of interventions on a subregional area

10:00 Variation over time of the elastic parameters of the soil: natural frequencies and stiffnesses

10:00 Characterization of the shallow hydrothermal system of Vulcano Island (Aeolian Islands, Italy) using geoelectrical survey



	M. Vona, A. Anelli, T. Tufaro, P. Harabaglia, F. Mori, B. Manganelli	B. Tiboni, S. Castellaro	A. Mocerino, M. G. Di Giuseppe, R. Isaia, C. De Paola, F. Pagliara, A. Troiano, R. Di Maio
<b>10:15</b>	<b>Seismic and Geodetic Monitoring of the Federico II school of Engineering Building (Naples, Italy)</b>	<b>10:15</b> <b>Thermo-mechanical effects on site stability: new insights from passive seismic monitoring (THEROCKLAB Project)</b>	<b>10:15</b> <b>One year of underground CO2 concentration recordings at CIEN station of San Procolo, Fermo</b>
	G. Capotosti, V. Poggi, D. Zuliani, S. Parolai, A. Compagno, S. Galvi, R. Morga, G. Baltzopoulos, I. Iervolino	L. Di Toro, C. Colombero, A. Merico, D. Martinelli, C. Francardo, G. Grechi, M. Fiorucci, G. M. Marmoni, S. Martino	C. Fidani
<b>10:30</b>	<b>Improving Decentralized On site Earthquake Early Warning system by rapid estimation of interstorey drift</b>	<b>10:30</b> <b>A three-dimensional resistivity approach: the Ca' Lita landslide experiment</b>	<b>10:30</b> <b>Crustal structure beneath Mefite d'Ansanto CO2 emission area (Southern Apennines, Italy) from teleseismic data: first results</b>
	R. Morga, S. Parolai, V. Poggi	A. Bratus, O. Souza Do Araujo, G. Bertolini, N. Bertone, L. Borgatti, E. Forte, M. Giorgi, F. Pellegrini, R. Spagni, R. Zambrini	S. Morabito, P. Cusano, A. Gervasi, G. Milano
<b>10:45</b>	<b>Engineering research at Campi Flegrei during bradyseism</b>	<b>10:45</b> <b>Landslide detection and monitoring by integrating electrical, seismic and interferometric techniques in a multi-hazard perspective: the case of San Vito Romano (RM)</b>	<b>10:45</b> <b>Passive seismic measurements to characterize gas reservoirs in a mud volcano field in Northern Italy</b>
	P. Cito, R. Baraschino, I. Iervolino	S. Marano, M. Cercato, G. De Donno, G. Grechi, Y. Hussain, S. Martino D. Melegari, G. Penta De Peppo, S. Rivellino	A. Brindisi, E. Paolucci, N. Carfagna, D. Albarello
<b>COFFEE BREAK/POSTER</b>	<b>11:00</b>	<b>COFFEE BREAK/POSTER</b>	<b>11:00</b>
<b>11:30</b>	<b>The Crucial Role of the SISMO Operational Group in Rapid Response to significant Seismic Events in Italy</b>	<b>11:30</b> <b>Machine learning-based surface wave dispersion curve inversion</b>	<b>11:30</b> <b>Continuous multiparametric monitoring of mud volcanoes: the study case of the Salse di Nirano natural reserve (Fiorano Modenese, Italy)</b>
	M. Pastori, E. D'Alema, M. Moretti, SISMO Working Group	F. Khosro Anjom, C. Colombero	E. Ferrari, G. Capelli Ghioldi, A.L. Rizzo, A. Sciarra, G. Tamburello, S. Lovati, F. Viveiros, M. Massa
<b>11:45</b>	<b>An integrated multi-risk assessment methodology for seismic-induced landslide impacting aging infrastructures</b>	<b>11:45</b> <b>Integrated approach based on geophysical and geotechnical safety factors for stability analysis of partially saturated soil slope</b>	<b>11:45</b> <b>Automated Detection of Recent Mud Extrusions Using UAV Imagery and Deep Learning: A Comparative Analysis of Traditional and CNN-Based Approaches</b>
	M. Anghileri, F. Biondini, C. Di Prisco, P. Marveggio, R. Paolucci, L. Petrini, C. Smerzini, M. Vanini, M. Zerbi	R. Buonaiuto, M. Pirone, R. Salone, G. Urciuoli, R. Di Maio	M. Guastella, R. Martorana, A. D'Alessandro, F. Pisciotta
<b>12:00</b>	<b>On the use of physics-based ground motion simulations to generate region-specific seismic damage scenarios</b>	<b>12:00</b> <b>From electrical resistivity to Volumetric Water Content tomographies: how to optimize irrigation in horticulture</b>	<b>12:00</b> <b>Spectral Properties of Fluid-Induced Self-arrested and Run-away Ruptures</b>
	C. Smerzini, R. Paolucci, M. Vanini	A. Innocenti, R. Fanti, V. Pazzi	F. Mosconi, E. Tinti, M. Supino, A.A. Gabriel, E. Casarotti, M.A. Meier, D. Giardini, M. Cocco
<b>12:15</b>	<b>A new method for the detection of earthquake-induced landslides from direct and indirect observation</b>	<b>12:15</b> <b>Geophysical and geochemical data integration for agricultural soil monitoring and prevention of the effects of salinity, organic matter, and climate change in the Province of Ferrara (Northern Italy)</b>	<b>12:15</b> <b>Infrasonic sensors as extension of the Italian Seismic Network: The ACU Project (DL50)</b>
	C. Zei, S. Valkaniotis, G. Papathanassiou, M. Taftsoglou, T. Chatzitheodosiou, G. Tarabusi, C. Ciuccarelli, P. Burrato, M. Ghirotti	A. Sobbe, E. Rizzo, G. Bianchini	T. Braun, A. Govoni, C. Bidini, G. De Luca, G. Di Stefano, G. Spinelli, M. Anselmi, D. Famiani, A. Frepoli, A. Gattuso, D. Sabatini, G. Romeo
<b>12:30</b>	<b>Dynamic structure-soil interaction characterization of the "Terza Torre" building in Bologna (Italy)</b>	<b>12:30</b> <b>Modelling the airborne Induced Polarization effects at continental scale: the Tempest case study in the AusEM project</b>	<b>12:30</b> <b>Petrophysical characterization of Adriatic Plate's crustal and mantle rocks</b>
	L. Cataldi, V. Poggi, S. Parolai, M. Romanelli, G. Capotosti, C. Scaini, D. Ertuncay, B. Petrovic, L. Tunini, L. Martelli	F. Dauti, A. Viezzoli, G. Fiandaca	M.C. Lopez, G. Gola, V. Kastelic, D. Di Naccio, A. Zanetti, M.M.C. Carafa, S. Vinciguerra
<b>12:45</b>	<b>Numerical Seismic Fragility Analysis of Glass Curtain Walls</b>	<b>12:45</b> <b>The Reference and Fiducial gravity networks in Italy</b>	<b>12:45</b> <b>Upwelling CO2 at Mount Forcuso antiform (southern Apennines, Italy): impact of hydraulic and thermal features on the reservoir-seal system</b>
	N. Cella, C. Bedon	R. Barzaghi, G. Berrino, B. Betti, A. Borghi, D. Carbone, D. Carrion, D. Contrafatto, A. Facello, F. Fuso, A. Germak, F. Greco, A.	E. Vitagliano, L. Pizzino, L. Improta, N. D'Agostino
<b>13:00</b>	<b>Estimation of the fundamental period of infilled RC framed buildings at different design limit states</b>	<b>13:00</b> <b>Advancing Geophysics with Next-Generation Quantum Gravity Sensors: Innovations from the FIQUGS Project</b>	<b>13:00</b> <b>Earthquake Patterns and Volcanic Risk: Reykjavik's Four-Year Seismic Analysis</b>
	N. Lamarucciola, R. Ditommaso, F. C. Ponzo	M. Capponi, D. Sampietro	A. Figlioli, R. Martorana, A. D'Alessandro
<b>13:15</b>	<b>Some remarks on the formulation of fragility functions depending on M-R earthquake couples</b>	<b>13:15</b> <b>Versatile Magnetic Surveying: Comparing MagNimbus and MagArrow Magnetometer</b>	<b>13:15</b> <b>Hydroseismograms from an underground hydrosensitive to seismicity site (Gran Sasso aquifer, central Italy)</b>
	A. Sandoli, G. Fabbrocino	F. Accomando, A. Barone, F. Mercogliano, A. Vitale, A. Bonfante, M. Buonanno, V. De Novellis, R. Castaldo, G. Solaro, S. Pepe and	V. Guerriero, D. Isaya, G. De Luca, G. Di Carlo, R. Martorana, M. Tallini
<b>13:30</b>	<b>Implications of Corrosion Modelling Strategies on the Time Dependent Seismic Risk Assessment of RC Bridges Exposed to Chloride Attack</b>	<b>13:30</b> <b>On surveying and modelling the magnetic response of Unexploded Ordnance (UXO)</b>	<b>13:30</b> <b>Scattering and absorption imaging of the High Agri valley oil field region (Southern Italy)</b>
	S. Reale, M. Furinghetti, A. Pavese	A. Godio, A. Casas, C. Colombero, J. C. Tapias	F. Napolitano, O. Amoroso, V. Serlenga, T. A. Stabile, S. Panebianco, V. Giampaolo, L. De Siena, P. Capuano
<b>13:45</b>	<b>DISCUSSION</b>	<b>13:45</b>	<b>13:45</b>

## POSTER Session S1.1

### Recent advances in the study of earthquakes, faults and seismogenic processes in natural and experimental faults

#### S1.1-1 Deciphering the 1706 Maiella Earthquake (Mw 6.8): from Seismogenic Sources to Ground Motion Simulations

T. Volatili, V. Gironelli, L. Luzi, P. Galli, M. M. C. Carafa, E. Tondi

#### S1.1-2 Late Pleistocene-Holocene tectonic activity of the Longhere-Fadalto-Cadola Line in the Lapisina Valley (Vittorio Veneto, NE Italy)

M.E. Poli, G. Patricelli, G. Paiero, A. Francheschet, A. Marchesini, N. Abu Zeid, G. Lucchetta

#### S1.1-3 Geological data to define the presence of active and capable faults in urbanized areas of the central Apennines

M. Mariani, S. D'Annibale, E. Falcucci, S. Gori, F. Galadini

#### S1.1-4 An updated 2D-3D geological model of the Molise-Sannio area (Southern Apennines) in the framework of the MOSAICMO project: inferences and hints for the seismotectonics of the Southern Apennines (Italy)

M. Buttinelli, F.E. Maesano, R. Maffucci, G. Vico, L. Improta, M. T. Mariucci, F. Mazzarini, F. Villani, M.M. Tiberti, R. Basili

#### S1.1-5 Fault Model of the 2024 Mw 7.4 Hualien (eastern Taiwan) Earthquake Sequence from GNSS and InSAR Data

D. Cheloni, N. A. Famiglietti, R. Caputo, C. Tolomei, A. Vicari

#### S1.1-6 Structural and seismotectonic complexities of the Northern Apennines highlighted by high-quality seismic locations

G. Lelj, D. Latorre, D. Talone, G. Lavecchia, R. de Nardis

#### S1.1-7 Geophysical and morphotectonic survey for the characterization of active faults in urban areas: the Scandicci Fault (Firenze, Italy)

A. D'Alessandro, L. Piccardi, E. Vittori, V. D'Intinosante, M. Rinaldi

#### S1.1-8 Geodetic Insights into the 2024 Wushi (North-Western China) Seismic Sequence: Mw 7.0 Mainshock and Mw 5.7 Aftershock from InSAR Data

N. A. Famiglietti, D. Cheloni, R. Caputo, A. Vicari

#### S1.1-9 Seismotectonic setting of the eastern margin of Adria plate

R. Cassataro, G. Pezzo, M. Palano, A. Sulli, C. Chiarabba

#### S1.1-10 Recent seismic activity in Friuli (NE Italy): the M4.6 Socchieve earthquake sequence and its preliminary seismotectonic interpretation

M.A. Romano, P. Brondi, A. Magrin, L. Zampa, M. Guidarelli, M. Suga, F. Abdi, A. Saraò, D. Spallarossa, M. Picozzi

#### S1.1-11 A comprehensive seismic catalog of the Montello-Collalto area (Eastern Southern Alps, Italy) for seismotectonic and induced seismicity purposes

G. M. Cipressi, M. A. Romano, P. Bernardi, E. Diez, F. Franceschini, M. Garbin, M. Guidarelli, P. Klin, G. Laurenzano, L. Moratto, L. Peruzza, F. Pettenati, M. Plasencia, E. Priolo, A. Rebez, M. Romanelli, D. Sandron, M. Santulin, A. Saraò, A. Tamaro, G. Lavecchia, R. de Nardis

## POSTER Session S2.1

### Science and technology to support earthquake prevention and preparedness

#### S2.1-1 A fault-based approach to model seismicity rates for seismic hazard assessment in the Irpinia region (southern Italy)

G. Alessandrini, O. Gómez-Novell, S. Castellaro



#### S2.1-2 Questions about correlations between particle precipitation and strong earthquakes

C. Fidani

#### S2.1-3 Exploring the impact of attenuation variations on ground motion simulations in the Central Apennines

S. Gabrielli, A. Akinci, E. Del Pezzo

#### S2.1-4 Including sea-level rise and vertical land movements in probabilistic tsunami hazard assessment for the Mediterranean Sea

A. Grezio, M. Anzidei, E. Baglione, B. Brizuela, P. Di Manna, J. Selva, M. Taroni, R. Tonini, A. Vecchio

#### S2.1-5 Depth-dependent stochastic slip models modulated by stress drop and rigidity variations in subduction zones: application to probabilistic tsunami hazard analysis



K. N. Vishnu, A. Scala, S. Lorito, F. Romano, R. Tonini, H. B. Bayraktar, G. Festa

#### S2.1-6 Modelling Synthetic Catalogues of Earthquake Ruptures in Complex Interacting fault Systems: A Case study in Central Apennines, Italy.

K Saghatforoush , B Pace, A Verdecchia, F Visini, L Peruzza, O Zielke

#### S2.1-7 Advancing PSHA in Italy: Exploring Intensity Prediction Models and Soil Amplification Effects

M. Santulin, A.A. Gomez-Capera

#### S2.1-8 Magnitude-dependent chaos in earthquakes

P. Venegas-Aravena, D. Zaccagnino

#### S2.1-9 The UV-divergence problem in statistical seismology: insights from an ETAS model with smoothed minimum triggering magnitude

D. Zaccagnino, J. Li, D. Sornette

#### S2.1-10 Time-dependent PSHA using correlations between electric oscillations detected by CIEN and moderate earthquakes

C. Fidani

## POSTER Session S2.2

### Science and technology to support earthquake prevention and preparedness

## POSTER Session S3.1

### Energy Transition and Resources

#### S3.1-1 Preliminary results of the GREEN (Geological storage of hydrogEn and carboN: clean and efficient monitoring methods) project

M. Graziano, P. Mancinelli, S. Satolli, V. Scisciani, A. Siniscalchi, S. Tripaldi

#### S3.1-2 Thermo-physical data of sedimentary rocks: analysis using Kantorovich-type operators

C. Pauselli, L. Zampogni, L. Gubbiotti

#### S3.1-3 A gravity survey of Casamicciola fault (Ischia Island)

L. Ricciardi, T. Pivetta, V. Paoletti, S. Carlino, N. A. Pino, U. Ricciardi, G. Florio

#### S3.1-4 The importance of measuring thermal and acoustic properties on rock analogues in geothermal potential assessment studies: the example of Northern Apennines Triassic carbonate platform and underlying basement rocks

P. Slupski, G. Gola, M. Basant, V. Cortassa, M. Facci, T. Nanni, M. Tesauro, A. Manzella, A. Galgaro

## POSTER Session S3.2

### Near Surface Geophysics

#### S3.2-1 Testing the Geophysical Instrumentations of the ITINERIS Infrastructures @CNR-IREA for the Investigation of the Soil-Subsoil System

A. Barone, F. Mercogliano, F. Accomando, G. Esposito, A. Vitale, R. Castaldo, G. Gennarelli, V. De Novellis, S. Pepe, G. Solaro, M. Buonanno, A. Bonfante, P. Tizzani, I. Catapano

#### S3.2-2 Submarine Canyons and Mass Transport Deposits in the Cagliari Gulf

M.C. Caradonna, A. Del Ben, V. Frisicchio , R. Geletti, G.A. Pini

#### S3.2-3 Drone-Based Aeromagnetic Surveys for Mapping and Characterizing Mud Volcanoes

R. Carluccio, F. D'Ajello Caracciolo, L. Minelli , I. Nicolosi

#### S3.2-4 Geophysical Investigation and Ambient Noise Analysis Around Messina Cathedral (Southern Italy)

S. D'Amico, E. Colica, L. Galone, F. Panzera, D. De Domenico, M. Adam Alldoum Adam, D. Presti, S. Scolaro, C. Totaro

#### S3.2-5 Ambient Noise Tomography of the Campi Flegrei caldera (Naples, Italy): Preliminary Results

C. Di Dato, A. Tramelli, L. De Siena

#### S3.2-6 Ambient Noise Tomography of the Campi Flegrei caldera (Naples, Italy): Preliminary Results

D. Di Gennaro, G. Salvia, G. De Martino, E. Vasanelli, S. Imperatore, F. Nerilli, L. Capozzoli

**S1.1-12 Improvement of the detection of micro-earthquakes in the Val d'Agri region (Southern Italy) by deep learning algorithms**

E. Caredda, A. Morelli, M. Errico, G. Zerbinato, M. P. Isken, S. Cesca

**S1.1-13 Earthquake Detection and Phase Picking using EQtransformer: a case study on Turkey-Siria earthquake, 6 February 2023**

A. Di Benedetto, G. Lo Bosco, A. D'Alessandro



**S1.1-14 Tremors—A Software App for the Analysis of the Completeness Magnitude**

A. Figlioli, G. Vitale, M. Taroni and A. D'Alessandro

**S1.1-15 Quantifying the Impact of Window-Based Declustering Approach on Magnitude of Completeness Estimation**

A. Figlioli, M. Guastella, R. Martorana and A. D'Alessandro

**S1.1-16 Full moment tensor inversion of small magnitude earthquakes of the Pollino (Italy) seismic swarm**

M. Ponte, S. Cesca, M. La Rocca, P. Büyükkapınar, G. Calderoni

**S1.1-17 Evaluating Bayesian approaches for double-couple moment tensor estimation: an Application in Central Italy**

T. Mancuso, C. Totaro, B. Orecchio

**S1.1-18 Finite source analysis of small earthquakes using the fault isochrone back-projection method: an example from the Alto Tiberina fault**

A. Cuius, C. Satriano, M. Supino, E. Tinti, L. Chiaraluca



**S1.1-19 Orientation and Data Quality of Seismometer Arrays in**

A. Cuius, E. Tinti, M. Supino, S. Marzorati, D. Piccinini, C. Collettini, and L. Chiaraluca

**S1.1-20 Quantifying the role of Thermal Insulation in Broad-Band Seismometer Performance: Evidence from Laboratory and Field Tests**

R. Pegna, D. Biagini, M. D'Ambrosio, D. Piccinini, G. Saccorotti

**S1.1-21 The the Antarctic Seismographic Argentinean Italian Network (ASAIN): status of the network and latest developments**

M. P. Plasencia Linares, M. Santulin, A. Magrin, D. Sandron, M. Romanelli, R. Laterza

**INGV GNSS Network (RING) densification: benefits, challenges and techniques**

L. Zarrilli, G. Cecere, F. Michiello, R. Moschillo, S. Pucillo, A. Vicari

**S2.1-1 Seismic characterization and local seismic response analysis in urban areas: a case study of school sites in Palermo**

A. Canzoneri, A. Carollo, P. Capizzi, M.V. Majani, M. Guastella, R. Martorana

**Rapid generation of report on post-seismic events with gmProcess: a case study for a dense accelerometric network in Veneto (NE Italy)**

G. Capotosti, P.L. Bragato, L. Cataldi, P. Comelli, C. Scaini, H. Siracusa, P. Ziani

**S2.1-2 Why should we bother about risk reduction at the urban scale? The Early Recovery System (ERS) and a methodology to assess the impact of prevention instruments on post-quake urban functionality**

C. Fontana, V. Tomassoni, M. Giuffrè

**S2.1-3 Estimation of site response using seismic recordings from surface and borehole sensors**

G. Franceschina, A. Tento

**S2.1-4 Integrating Physics-Based Ground Shaking Simulations into Near Real-Time Earthquake Damage Assessment: The Role of SPEED in the UrgentShake Workflow**

I. Monsalvo Franco, C. Smerzini, E. Zuccolo, C. Scaini, V. Poggi

**S2.1-5 3D geological model: A key tool for risk assessment in urban areas**

R. Novellino R. and P. Vannucchi

**S2.1-6 A Comprehensive GIS-Based Solution for Managing Seismic Emergencies: Tools and Strategies Developed by the SISMICO "Piattaforma Condivisione Dati" Team**

M. Pastori, S. Falcone, R. Moschillo, L. Nardone, M. D'Ambrosio, A. Cavaliere, SISMICO Working Group

**S2.1-7 The OGS MobileLAB for earthquake rapid response**

D. Pesaresi, M. Bertoni, P. Comelli, M. Picozzi

**S2.1-8 Accuracy of forecasts of seismic damage scenarios in urban areas: the case of L'Aquila 2009**

R. Sava, A. Greco, A. Pluchino, A. Rapisarda

**S2.1-9 ProbShakemap: a Python toolbox propagating source uncertainty to ground motion prediction**

A. Stallone, J. Selva, L. Cordrie, L. Faenza, A. Michelini, V. Lauciani

**S2.1-10 Deployment of a temporary seismic network for the study of active faults along the Voltri Massif (Genoa, northwestern Italy)**

G. Tarchini, L. Colavitti, D. Scafidi, M. Locatelli, S. Parolai, D. Spallarossa, M. Vassallo, G. Riccio



**S3.2-7 Integration of Remote Sensing and geophysical techniques to study a cultural heritage in a seismic area: Ground Penetrating Radar and Laser Scanner surveys for the**

M. Ercoli, G. Alaia, R. Brigante, L. Marconi, N. Cavalagli, C. Pauselli, F. Radicioni

**S3.2-8 Ground Penetrating Radar Applications in Active Tectonics: Insights from the Southern Apennines (Italy)**

N. Gagliarde, N. A. Famiglietti, A. Memmolo, A. Meo, R. Migliazza, P. Miele, A. Vicari, B. Massa

**S3.2-9 Geo-hazards evaluation in urban areas: a new ground-airborne instrumental facility for geophysical exploration and land surface monitoring**

V. Giampaolo, G. De Martino, V. Serlenga, G. Gangone, L. Martino, G. Calamita, M.R. Gallipoli, I. Gaudiosi, A. Perrone, S. Pignatti, T.A. Stabile, V. Lapenna

**S3.2-10 A New multiscale and multisensor strategy for the characterization of groundwater discharge in coastal areas - First results of the SUBGEO project in Pianosa island**

R. Giannuzzi, L. Capozzoli, D. Di Gennaro, M. De Girolamo, M. Doveri, M. Menichini, D. Patella, M. Polemio6, A. Santilano, G. Romano

**S3.2-11 Integration of data from direct and indirect surveys for more accurate localization and characterization of underground cavities in eastern Sicily (Italy)**

S. Grassi, G. Morreale, D. Messina,, P. Monforte, G. Giudice, G. Quattrocchi, S. Imposa

**S3.2-12 InSAR for the characterization of climate-related processes in Northwest Italy**

D. Guidi, F. Silverii, M. Polcari, E. Rivalta

**S3.2-13 Landslide detection and monitoring by integrating electrical, seismic and interferometric techniques in a multi-hazard perspective: the case of San Vito Romano (RM)**

S. Marano, M. Cercato, G. De Donno, G. Grechi, Y. Hussain, S. Martino, D. Melegari, G. Penta De Peppo, S. Rivellino

**S3.2-14 Evaluating Hydrogeological Risks in Urban and Peri-**

L.Martino, G. Calamita, S.Uhlemann, F. Canora, A. Perrone

**S3.2-15 Integrated Geophysical Surveys in the Southern Alps (Italy): A Multimethod Approach to Subsurface Characterization**

A. Montanaro, M. Taddeo, U. Giordano, G. Esposito, P. Luiso, D. Fiore

**S3.2-16 Evaluating seismic site response in presence of a lava tube: Preliminary results**

F. Panzera, S. Alparone, A.M. Borzi, D. Contrafatto, E. Colica, S. D'Amico, L. Galone, G. Giudice, G. Grechi, G. Larocca, S. Martino,

**S3.2-17 A dense nodal array to study the site effects and structure of the intermontane Bojano basin (Central Italy) – MOSAICMO project**

M. Vassallo, G. Di Giulio, G. Riccio, S. Hailemikael, S. Pucillo, R. Cogliano, L. Improta, D. Latorre

**S3.2-18 A method for the quantification of errors in the geological models based on back-stripping procedure**

E. Vitagliano, I. Spassiani, C. D'Ambrogio, R. Di Maio

**POSTER Session S1.2**

**The role of geofluids in earthquakes, volcanoes and geothermal fields**

**S1.2-1 Enhancing Seismic Monitoring in Volcanic Regions: Near Real-Time P and S Phase Recognition Using PhaseNet in Campi Flegrei area**

P. Cantiello, R. Esposito, A. Di Filippo, R. Peluso

**POSTER Session S2.3**

**Risk Communication**

**S2.3-1 Seismicity map of Italy | 1999-2024**

M. Pignone, R. Moschillo, A. Nardi, B. Castello, C. Nostro, L. Margheriti, F. Di Laura, D. Riposati

**POSTER Session S3.3**

**Theoretical and Methodological Development in Applied Geophysics**

**S1.2-2 Characterisation of soil CO2 flux time series using visibility graphs: preliminary results from Etna volcano**  
S. Scudero, A. D'Alessandro, M. Liuzzo

**S1.2-3 New insights on the Mount Etna volcano (Southern Italy)**  
C. Totaro, M. Aloisi, C. Ferlito, B. Orecchio, D. Presti, S. Scolaro


**S1.2-4 The lava fountain episodes at the Voragine crater of Mt. Etna (July-August 2024): an integrated geophysical approach based on seafloor observatories and land stations**

T. Sgroi, S. D'Amico, A. Giuntini, A. Mantovani, G. Marinaro, F. Simeone

**S1.2-5 Structural analysis of the northern sector of the krafla**  
L. Suranna, D. Marchetti, M. Pedicini, N. Corti, S. Brando, F.

**S1.2-6 Unexpected tectonically active areas evidenced by geochemical markers in geofluids occurrences of the**  
G. Martinelli, G. Facca, F. Gherardi, L. Pierotti, D.L. Pinti, G. Yüce

**S1.2-7 Exploring Northern Calabria region through Seismic Attenuation Tomography and Complementary Geophysical Data**  
M. Adam Alldoum Adam, L. De Siena, D. Presti, S. Scolaro, C. Totaro

**S 1.2-8 Salse del Dragone Mud Volcano (Northern Italy): Characterization Through Surface Wave Seismic Prospecting and Stability Analysis**  
M. Zanetti, E. Paolucci, M. Antonellini, A. Armigliato, A. Pesci, A. Zaniboni, A. Piombo 

## POSTER Session S1.3

**Physical models for the Solid Earth and integration between modeling and data of different nature**

**S1.3-1 Multitemporal, Multisatellite and Multisensor InSAR techniques for Slow-Moving Landslides monitoring**

C.A. Brunori

**S3.3-1 Coherence-based earthquake location for hybrid fiber optic and seismometer networks: a concept**  
E. Bozzi, A. Bonelli, G. Pascucci, S. Gaviano, G. Saccorotti, G. M. Bocchini, R. Harrington, A. Ugalde, H. Martins, F. Grigoli

**S3.3-2 An inter-disciplinary Virtual Research Environment to**  
D. Marchetti, D. Bailo, J. Michalek, R. Paciello

**S3.3-3 The Seismological Calibration Center of OGS**

D. Zuliani, A. Compagno, P. Fabris, E. Del Negro, M. Bertoni, P. Di Bartolomeo, G. Capotosti, G. Rossi, P. Bragato, M. Picozzi, H. Siracusa, P. Ziani, M. Spampani, M. Pedroni, R. Khop, H. Voß

**S3.3-4 LZER0: adaptation for temporary monitoring and**  
D. Zuliani, A. Compagno, P. Fabris, F. De Giorgi, S. Galvi, A.

**S1.3-2 Integrated 3D crustal model in Southern Italy from geophysical and petrophysical constraints**

M. Perrini, F. Accomando, G. De Landro, G. Gola, P. Tizzan, Carafa, M. Fedi, A. Zollo, V. Kastelic, C. Di Lorenzo, D. Di Naccio, M. Taroni and R. Castaldo

**S1.3-3 Environmental monitoring of Etna volcano to detect anomalies related to geophysical activity: first results**

M. Soldani, G. Cianchini, A. Bonforte, S.A. Campuzano, R. Catania, S. D'Arcangelo, M. De Caro, A. De Santis, D. Di Mauro, S. Lepidi, S.R. Maugeri, M. Orlando, L. Perrone, D. Sabbagh

**S1.3-4 Anisotropic local earthquake P-wave tomography of the Val d'Agri area**

G. Del Piccolo, M. Faccenda, A. Morelli, M. Buttinelli, R. Maffucci, M. Ciacagli

**S1.3-5 Evidence of Seismic and Ionosphere-Atmosphere-Lithosphere coupling during strong Italian earthquakes**

M. Falanga, P. Cusano, G. D'Angelo, E. De Lauro, S. Petrosino, D. Recchiuti and M. Piersanti

**S1.3-6 Finite element models of spontaneous subduction initiation: preliminary results**

V. Fedeli

**S1.3-7 Moho and Lithosphere-Asthenosphere Boundary (LAB) below the Sannio-Matese region (Central-Southern Apennine) from P and S receiver functions**

S. Monna, C. Montuori, L. Improta, D. Latorre

**S.13-8 Lithospheric structure and mantle wedge below the Tyrrhenian and Ionian basins (Central Mediterranean) from P and S receiver functions**

C. Montuori, S. Monna, F. Frugoni, C. Piromallo, M. De Caro, A. Giuntini, A. Argnani

**S1.3-9 Investigation of the Preparatory Phase of the 2022 ML 5.7 Offshore Fano (Italy) Earthquake Through a Multiparametric and Multilayer Methodology**

M. Orlando, A. De Santis, M. De Caro, L. Perrone, S.A. Campuzano, G. Cianchini, A. Piscini, S. D'Arcangelo, M. Calcara, C. Fidani, A. Nardi, D. Sabbagh, M. Soldani

**S1.3-10 GNSS and InSAR contribution to slope stability models: a case study in NE-Italy**

L. Tunini, D. Zuliani, F. Di Traglia, L. Borselli, C. de Luca, T. Nolesini, F. Casu

**S1.3-11 A proposal for the physical modeling of ghost geodetic transients**

D. Zaccagnino, M.M. C. Carafa, C. Doglioni

**S1.3-12 MARGE project: from magnetotelluric modelling to Space Weather risk**

G. Pignatiello, M. Balasco, I. Coco, M. De Girolamo, M. Di P., F. Giannattasio, C. Gizzi, V. Materni, L. Miconi, M. Miconi, G. L. Piangiamore, G. Romano, V. Romano, L. Santarelli, V. Sapia, S. Spadoni, R. Tozzi, S. Tripaldi, A. Siniscalchi, P. De Michelis