

CHIOSTRO DI LEVANTE SESSIONI POSTER (17.15 – 19.30)

S01. VOLCANO GEOLOGY, STRATIGRAPHY, CHRONOLOGY AND PALEOMAGNETISM TO UNRAVEL THE ERUPTIVE BEHAVIOR AND RELATED HAZARDS

Pannello 1

Deposit-derived block-and-ash flows: the hazard posed by perched temporary tephra accumulations on volcanoes; 2018 Fuego disaster, Guatemala

Gilda Risica, Mauro Rosi, Marco Pistolesi, Fabio Speranza, Michael J. Branney

Pannello 2

Reconstruction of the subaerial Holocene volcanic activity through paleomagnetic and ^{14}C dating methods: El Hierro Island (Canary Islands)

Gilda Risica, Alessio Di Roberto, Fabio Speranza, Paola Del Carlo, Massimo Pompilio, Stavros Meletlidis, Alessandro Todrani

Pannello 3

Age of the Valle del Bove formation and chronology of the post-collapse flank eruptions, Etna volcano (Italy)

Arianna Beatrice Malaguti, Stefano Branca, Fabio Speranza, Mauro Coltelli, Paola Del Carlo, Alberto Renzulli

Pannello 4

The contribution of drone images to reconstructing volcanic history: application to the island of Lipari

Mauro Rosi, Marco Manni

Pannello 5

Growth, collapses, and evolution of the long-lived Ollagüe volcano, Central Andean Volcanic Zone

Jose Pablo Sepulveda, Raffaello Cioni, Gabriel Ureta, Felipe Aguilera, Stephane Scaillet, Alfredo Esquivel, Bruno Scaillet

Pannello 6

$^{40}\text{Ar}/^{39}\text{Ar}$ dating of the trachytic crystal mush of the Green Tuff ignimbrite, Pantelleria island

Alessandra Cinquegrani, Stéphane Scaillet, Pierangelo Romano, Silvio Giuseppe Rotolo

Pannello 7

Emplacement temperature estimation of the 2015 Calbuco pyroclastic density currents (PDCs) using charcoal reflectance (Ro%) method: preliminary results.

Lisa Ricci, Alessandra Pensa, Daniele Morgavi, Jorge Romero, Guido Giordano, Francesco Frondini

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Magnetic fabric and paleomagnetism of the Mount Calanna dyke swarm: a comprehensive study on swarm emplacement

Rasia Shajahan, Elena Zanella, Sara Mana, Andrew Harris, Benjamin van Wyk de Vries

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Resolution and characterization of seismic swarms and clusters at Mt. Etna volcano (Sicily, Italy)
Salvatore Alparone, Graziella Barberi, Simone Cesca, Vincenza Maiolino, Andrea Ursino

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Dynamics of the main active faults bounding the mobile flank of Mt. Etna volcano, through very-long period comparisons of survey data.
Alessandro Bonforte, Stefano Branca, Giuseppe Brandi, Salvatore Consoli, Elena Cubellis, Salvatore Gambino, Francesco Guglielmino, Francesco Obrizzo, Laura Privitera, Giuseppe Puglisi, Umberto Tammara

Pannello 11

Mt. Etna volcano (Sicily, Italy): is the 2021 deep seismicity recorded on the eastern flank it represents an anomaly?
Anna Figlioli, Salvatore Alparone, Antonino D'Alessandro, Raffaele Martorana, Attilio Sulli, Andrea Ursino

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Historical photogrammetry-derived models to investigate the architecture of the Fremrinamar rift, Northern Iceland
Martina Pedicini, Fabio Bonali, Alessandro Tibaldi, Noemi Corti

S03. TEPHROCHRONOLOGY: A POWERFUL TOOL FOR UNRAVELLING THE PAST

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Tephrochronology, modelling and dynamics of large-magnitude eruptions in the Campi Flegrei caldera
Giada Fernandez, Gianluca Sottili, Biagio Giaccio, Antonio Costa

Pannello 14

Cryptotephra layers in marine sequences of the Ross Sea, Antarctica: implications and potential applications
Paola Del Carlo, Giuseppe Re, Alessio Di Roberto, Karen Gariboldi, Leonardo Langone, Tommaso Tesi, CHIMERA and GRETA Projects Working Group

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Fast morphometrical data acquisition on volcanic ash particles for the eruptive style detection: a multivariate statistics approach
Pietro Gabellini, Raffaello Cioni

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Pierfrancesco Calabria

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Gianmarco Buono, Stefano Caliro, Giovanni Chiodini, Flora Giudicepietro, Francesco Maccaferri, Giovanni Macedonio, Lucia Pappalardo, Giacomo Pozzi, Elena Spagnuolo, Anna Tramelli

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Overlook into the Stromboli plumbing system: defining the spatial and temporal conditions of magma storage and transfer as prelude of paroxysmal eruptions

Marta Minniti, Eugenio Nicotra, Marco Viccaro

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Olivine clinopyroxenite xenolith in the 2002-2003 lavas of Mount Etna

Silvia Minissale, Gabriele Lanzafame, Roberto De Gennaro

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Real crystal-chemical variations of spinel, plagioclase and pyroxene solidified at variable cooling rates in a tholeiitic basaltic system using EPMA maps

Emanuela Gennaro, Gianluca Iezzi, Manuela Nazzari, Piergiorgio Scarlato, Francesco Vetere

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A journey into the Monte Amiata mafic enclaves world: from fieldwork observations to chemistry

Lucrezia Valeriani, Simone Paternostro, A. Buian, José Luis Sepulveda Birke, Martina Casalini, Eleonora Braschi, Andrea Orlando, Raffaello Cioni, Lorella Francalanci, Sandro Conticelli

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Francesco Furia, Marisa Giuffrida, Marco Viccaro

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Determining the depths and timescales of pre-eruptive processes before historical Monte Nuovo eruption (Campi Flegrei caldera, Italy)

Lydia Whittaker, Michael Stock, Victoria Smith, Evan Mutch, Penny Wieser, Roberto Isaia

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Ernestina Appiah, Stepan P. Krasheninnikov, François Holtz, Paola Stabile, Fabio Arzilli, Michael R. Carroll

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Nanocrystallization in basalts: a chemical threshold between magmas from Mt. Etna and Stromboli

Alex Scarani, Alessio Zandonà, Fabrizio Di Fiore, Pedro Antonio Valdivia Munoz, Nobuyoshi Miyajima, Hansjorg Bornhoft, Alessandro Vona, Joachim Deubener, Claudia Romano, Danilo Di Genova

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Numerical modelling of sudden eruptive style transitions at basaltic volcanoes

Elisa Biagioli, Giuseppe La Spina, Margherita Polacci, Jorge Romero, Mike Burton, Mattia de' Michieli Vitturi

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Rheology of 2021 lava flows at Cumbre Vieja volcano (La Palma, Canary Islands, Spain)

Fabrizio Di Fiore, Alessandro Vona, Alex Scarani, Guido Giordano, Claudia Romano, Daniele Giordano, Luca Caricchi, Matthew Pankhurst, and the INVOLCAN Team

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Experimental constraints on fragmentation conditions of mafic magmas during large-scale, ignimbrite-forming eruptions

Alessandro Vona, Fabrizio Di Fiore, Pedro Valdivia, Guido Giordano, Brittany D. Brand

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Are volcanic melts less viscous than we thought?

Pedro Valdivia, Alessio Zandonà, Joachim Deubener, Danilo Di Genova

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Alessia Falasconi, Raffaello Cioni

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Magma chamber dynamics during the Green Tuff (Pantelleria, Italy) eruption: insights into the evolution of a peralkaline mush zone

Pierangelo Romano, John C. White, Ray Macdonald, Bogusław Baginski, Silvio G. Rotolo, Beata Marciniak-Maliszewska

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Stratigraphic and geochemical investigations of pre-Campanian Ignimbrite (39.85 ± 0.14 ka) and pre-Monte Epomeo Green Tuff (56.0 ± 1.0 ka) volcanic sequences at Procida and Monte di Procida

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Ayumu Ishikawa, Lorenzo Innocenti, Maria Cristina Silengo, Giorgio Lacanna, Takeshi Nishimura, Maurizio Ripepe

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Francesco Biagioli, Jean-Philippe Métaixian, Eléonore Stutzmann, Maurizio Ripepe, Pascal Bernard, Roberto Longo, Marie-Paule Bouin

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Luca D'Auria, Nemesio Perez, INVOLCAN's team