

IASPEI/IAVCEI Inter-Association Commission on “Volcano Seismology & Acoustics”

October 1st-6th 2023 - Lacco Ameno, Ischia Island (Italy)

Workshop Program

1 October

Participants arrival and evening icebreaking

2 October (Talks)

09.30 - Francesca Bianco. The current dynamics of Neapolitan high-risk volcanoes

10.00 - Jurgen Neuberg. Milestones and Developments in Volcano Seismology

10.40 - Carlino S., Pino N.A. Local crustal dynamic and earthquakes at Ischia Island

11.10 – Coffee break

12.00 - Bódi Jozef, G. Berrino, P. Vajda, P. Zahorec, A.G. Camacho, V. De Novellis, S. Carlino, J. Fernández, J. Papčo, E. Bellucci Sessa, R. Czikhardt. Gravimetric clues from Growth inversion of spatiotemporal gravity changes accompanying the earthquake of 21 August 2017 on Ischia (Italy)

12.30 - Falanga M., Cusano P., De Lauro E., Petrosino S. The whisper of the hydrothermal seismic noise at Ischia Island

13.30 - Lunch

14.30 - D’Auria L., Barrancos J., Cabrera Pérez I., Falcón García A., Germán Padilla D., Preciado-Garbayo J., Przeor M., Ortega V., Martínez van Dorth D., Nemesio M. Pérez. Distributed Acoustic Sensing as a tool for real-time volcano monitoring: Characterization of the volcanic tremor during the 2021 Tajogaite eruption (La Palma, Canary Islands)

15.00 - Przeor M., Barrancos Martínez J., Castaldo R., D’Auria L., Germán D. Padilla, Antonio Pepe, Susi Pepe, Sagiya T., Solaro G., Tizzani P., Nemesio M. Pérez. Seismicity associated with the complex dike intrusion process during the Tajogaite eruption of 2021 (La Palma, Canary Islands)

15.30 - Suárez E. D., Domínguez Cerdeña I., Villaseñor A., C. del Fresno, Sáinz-Maza S. The pre-eruptive seismic series of La Palma 2021 through a fully automatic analysis

16.00 - Cabrera-Pérez I., D’Auria L., Del Pezzo E., Jesús M. Ibáñez, Soubestre J., Barrancos J., Germán D. Padilla, and Nemesio M. Pérez. Integrating Q-coda and Velocity Variations Values from Ambient Noise Interferometry for Volcano Monitoring: A Case Study of the 2021 Tajogaite Eruption

16.30 - C. del Fresno, Domínguez Cerdeña I., Díaz-Suárez E.A., Villaseñor A., Sáinz-Maza S. Seismic activity in Tenerife: an overview with 3D velocity model

17.00 – Discussion

3 October

9.00 Field trip to Ischia (the field trip will be organized by boat or alternatively on land depending on the weather condition. Packed lunch will be provided). Field Trip leaders: *Fabio Sansivero (INGV-OV) and Sandro de Vita (INGV-OV)*.

4 October (Talks)

09.30 - **Cocina O., Falsaperla S., Spampinato S.** "Characteristics of the seismic activity of the island of Vulcano, Italy, during a decades-long monitoring"

10.00 - **Falsaperla S., Ferrari F., Langer H., Spampinato S.** Classification of Seismic Signals at Vulcano, Italy, using Unsupervised Learning Techniques

10.30 - **Domínguez Cerdeña I., Díaz-Suárez E.A., C. del Fresno, Meletlidis S.** Seismic unrest of 2022 in Sao Jorge (Azores): volcanic or tectonic seismicity?

11.00 – Coffee break

12.00 - **Soosalu H., Greenfield T., Rawlinson N., Winder T., Fone J., Han J., Robert S. White, Brandsdóttir B., Steinthórsson S.** The awakening of central volcano Askja, NE-Iceland

12.30 - **Thelen W, Jefferson C. Chang, Peter J. Dotray, Maher S., Jolly A.** Eruption Dynamics of the 2022 Mauna Loa Eruption revealed through Tremor

13.00 - Lunch

15.00 - **Ortega-Ramos V., D'Auria L., Granja-Bruña J.L., Cabrera-Pérez I., Barrancos J., Padilla G.D., Hernández P., Nemesio M. Pérez.** Evidence of a huge magma chamber beneath Campi Flegrei caldera through receiver functions analysis.

15.30 - **Castaldo R., Barone A., Caliro S., Chiodini G., De Novellis V., Gola G., Pepe S.1, Solaro G., Tizzani P.** Modeling of fluid migration in volcanic environment: the case of Solfatara crater in Campi Flegrei caldera.

16.00 - **Danesi S., Pino N.A., Carlino S., Kilburn C.R.J.** Seismicity Analysis and Unrest Evolution in the Campi Flegrei Caldera: Insights from Long-Term Observations

16.30 - **Pivetta T., Riccardi U., Rivalta E., Carlino S., Nikkhoo M., Maccaferri F., Di Vito M.A., De Martino P.** The recent unrest at Campi Flegrei caldera: a preliminary study of the source from GNSS and gravity data

17.00 - Discussion

5 October

7.00 Field trip to Campi Flegrei (Transfer with bus from Hotel to Casamicciola harbour and by ferry boat to Pozzuoli and vice versa. Packed lunch will be provided). Field Trip leader: *Roberto Isaia (INGV-OV)*

6 October

10.00-13.00 Breakout groups on commission business and special initiatives

See you at Ischia!

