

Annual Workshop 2024
IASPEI/IAVCEI Inter-Association Commission
on “Volcano Seismology & Acoustics”

September 16-20 2024 – El Paso La Palma (Spain)

Workshop Program

16 September

Participants arrival and evening icebreaking (20:30). More details soon

17 September (Presentations)

09:00 - Presentation of the Workshop. With the participation of local authorities.

09:30 - **Lower crustal earthquakes in Iceland caused by melt movement through the crust.** [Bob White](#), Tom Winder, Tim Greenfield, Nick Rawlinson, Bryndís Brandsdóttir, Heidi Soosalu, Tom O'Hara, Isabel Siggers, Sveinbjörn Steinhórsson

10:00 - **Plume events associated with inner crater collapses during the 2021 Geldingadalir eruption: Source inversion and video camera analysis** [Alea Joachim](#), Sebastian Heimann, Eva P. S. Eibl, Leah Rees, Maximilian Dwars, Egill Árni Gudnason, Thorbjörg Ágústsdóttir, Gylfi Páll Hersir, Tom Winder, Nicholas Rawlinson, Tomáš Fischer, Jana Doubravová, Jan Burjánek, Oliver D. Lamb.

10:30 - Coffee break

11:30 - **Recent advances in seismic imaging of the central volcano Askja, NE-Iceland** [Heidi Soosalu](#), Jifei Han, Nick Rawlinson, Robert S. White, Thomas Winder, Tim Greenfield, Joseph Fone, Thomas O'Hara, Isabel Siggers, Bryndís Brandsdóttir and Sveinbjörn Steinhórsson

12:00 - **Sources of continuous tremor associated with subglacial geothermal activity, jökulhlaups and eruptions in Iceland.** [Bryndís Brandsdóttir](#), Páll Einarsson, Bethany E. Vanderhoof, Thomas Winder, Kristín Jónsdóttir, Ólafur Guðmundsson, Magnús Pálsson, Eyjólfur Magnússon, Bergur Einarsson and Finnur Pálsson

12:30 - Assessing the seismic properties of the minute- and hour-long seismic eruptive tremor episodes during the 2021 Geldingadalir eruption, Iceland.

[Maria R.P. Sudibyo](#), *Eva P.S. Eibl, and Sebastian Hainzl*

13:00 - Lunch

15:00 Seismic monitoring during the Reykjanes unrest [Kristín Jónsdóttir](#), *Sara Barsotti, Halldór Geirsson, Michelle Parks, Ragnar Heiðar Þrastarson, Vala Hjörleifsdóttir, Felix Rodriguez Cardozo, Yesim Cubuk Sabuncu, Freysteinn Sigmundsson, Jean Soubestre, Richard Sanderson, Corentin Caudron, Thomas Lecocq, Kristín Vogfjörð, Benedikt Halldórsson, Sigurlaug Hjaltadóttir, Gunnar B. Guðmundsson, Bryndís Brandsdóttir, Þórður Ágúst Karlsson, IMO technicians, Reykjanet, ISOR and Cambridge station collaborators, Natural hazards specialists at IMO and the Reykjanes Science Board Team*

15:30 - Seismo-Volcanic Earthquake Swarms – Source mechanisms and forecasting potential. [Jurgen Neuberg](#)

16:00 - Coffee break

16:45 – Special Event: Screening of the award winning documentary **Lava Bombs: Truths Behind The Volcano** (60 minutes) on the eruption of Tajogaite volcano in 2021. The documentary will be presented by its producer Sharon Backhouse, Director of GeoTenerife.

18 September (Fieldtrip)

8:30 - 19:00 Visit to the Astronomical Observatory at Roque de Los Muchachos operated by the Instituto de Astrofísica de Canarias (IAC). Visit to the largest operative telescope in the world (GranTeCan)

More information soon.

19 September (Presentations)

09:00 - The 2021 eruption of La Palma: monitoring prior, during and after the eruption. [Stavros Meletlidis](#) and all IGN group

09:30 - Development and applications of “deep” seismic event catalogs in volcanic regions. [Antonio Villaseñor](#), Eduardo Díaz Suárez, Itahiza Domínguez Cerdeña, Carmen del Fresno, and Rafael Bartolomé

10:00 – Project IMAGMASEIS. Exploring the internal structure of La Palma after the 2021 eruption using passive seismic methods. Tortosa, J., [Almendros, J.](#), Carmona, E., Martín, B., Abella, R., Yuan, X., Heit, B., Prudencio, J., Morales, J., Cortés, G., Araque-Pérez, C., Ontiveros, A., Feriche, M., Carrero, D., Parera-Portell, J. A., Rey-Devesa, P., Alguacil, G.

10:30 – Coffee break

Poster: **Volcanic monitoring network of Deception Island (Antarctica) of the National Geographic Institute.** [Rafael Abella](#), Anselmo Fernandez, Sergio Blanca, Graciela Sosa, Gonzalo Contreras, Víctor Martín, Manuel Abella, Resurrección Antón, Jaime Barco, Carmen del Fresno, Daniel Minguez, María Victoria Manzanedo, David Moure and Carmen Lopez

11:30 - Looking into the source location and propagation effects of volcanic tremor during the 2021 Tajogaite eruption using array analysis and synthetic simulations. Fernández-Carabantes, J., Melchor, I., [Almendros, J.](#), Tortosa, J., Abella, R.

12:00 - Post-eruptive hazards: The case of 2021 eruption in La Palma. [Rubén López-Díaz](#), Carmen López Moreno, Nemesio Pérez, Pedro Hernández, Germán Padilla

12:30 - EPOS as a support tool for Volcano Monitoring. [Itahiza Domínguez Cerdeña](#), Letizia Spampinato, Enrico Indovina, Adelina Geyer, Ríkey Júlíusdóttir, Danilo Reitano, Giuseppe Puglisi, Rosella Nave, Ileana Santangelo, Kristín Vogfjörð, Philippe Labazuy, Lucia Cacciola, Yannick Guehenneux, Jean-Christophe Komorowski⁷, Jean-Marie Saurel.

13:00 - Lunch

15:00 - Acoustic Measurements during the 2021 Cumbre Vieja Eruption on La Palma. [Julia E. Gestrich](#), V. Cigala, L. Spina, U. Kueppers, J. Barrancos Martínez, C. E. J. Vossen, D. Fee, C. Cimorelli, M. Schmid, L. D’Auria, J. Tadeucci, P. Scarlato, P. Hernández, M. Asensio-Ramos, D.B. Dingwell

15:30 - Combining seismicity and hydroacoustic to monitor the Fani Maoré eruption from depths to the seafloor. [Aude Lavayssière](#), Lise Retailleau, Sara Bazin, Jean-Yves Royer

16:00 - Coffee break

16:30 - Experimental volcanic jet noise. [Gilles Seropian](#)

17:00 – Closure and final discussions

20 September (Fieldtrip)

8:00 – 19:00 Fieldtrip to La Palma 2021 Volcano: Visit to the volcanic edifice, lava flows and lapilli fields. It will include transportation and food. To approach the volcano we will make a 75 minutes low difficult hike to the volcanic cone.

More information soon.

Participants

Name	Institution
Rafael Abella	IGN (Spain)
Javier Almendros	Universidad de Granada (Spain)
Bryndís Brandsdóttir	Institute of Earth Sciences University of Iceland
Eduardo Díaz Suárez	IGN (Spain)
Itahiza Domínguez Cerdeña	IGN (Spain)
Julia Gestrich	Ludwig-Maximilians-Universität München (Germany)
Alea Joachim	University Postdam (Germany)
Kristin Jónsdóttir	Icelandic Meteorological Office
Aude Lavayssière	University of Brest /France)
Rubén López Díaz	IGN (Spain)
Carmen López Moreno	IGN (Spain)
Marivi Manzanedo	IGN (Spain)
Stavros Meletlidis	IGN (Spain)
Jurgen Neuberg	Leeds University (UK)
Francisco Manuel Pérez	IGN (Spain)
Giles Seropian	University of Exeter (UK)
Heidi Soosalu	Geological Survey of Estonia
Graciela Sosa	IGN (Spain)
Maria Sudibyó	University Postdam (Germany)
Antonio Villaseñor	ICM CSIC (Spain)
Robert White	Cambridge University (UK)
Mario Zamir Ruíz	Stanford University (USA)