

Conference *Program*

MAY 21 to 25, 2018



7th international
MAAR CONFERENCE
— OLOT - CATALONIA - SPAIN



Conference *Program*

May 20th, 2018
Sala Torín, Olot

- 4 pm - 7 pm** Registration
- 5 pm** Ice Breaker
- 7 pm** Free shuttles from Sala Torín to Conference Hotels

May 21st, 2018
Sala Torín, Olot

- 8 am - 9 am** Registration
- 9 am** Opening Ceremony
- 9.30 am** **Open Talk:** Károly Németh
- 10 am** **Invited talk:** Exploring eruptive and erosional features of monogenetic scoria cones using Principal Component Analysis and machine learning. Gabor Kereszturi
- 10.30 am** Coffee Break

May 21st, 2018

Sala Torín, Olot

Session 1

Monogenetic volcanoes: eruption dynamics, growth, structure and physical modeling

Conveners: Joan Martí, Pierre-Simon Ross, Volker Lorenz, Xavier Bolós.

- 11 am** **Keynote:** A global perspective on Maars: Maar Volcano Location and Shape (MaarVLS). Alison Graettinger
- 11.15 am** Assessing the role of phreatomagmatism in the eruption dynamics of the trachyandesitic maar-like Pavin crater (Massif central, France): constraints from the pyroclasts micro-textures. Jean-Louis Bourdier
- 11.30 am** Sedimentary features as indicators of hydrogeological conditions controlling initial phreatomagmatic eruption phases of the monogenetic Potrerillo and San Juanito volcanoes in the Ceboruco graben, western Mexico. Dolors Ferrés
- 11.45 am** Historical phreatomagmatic activity at the summit of Tacaná Volcano, México-Guatemala. José Luis Macías
- 12 pm** Tilocálar volcanoes: Effusive, magmatic explosive and phreatic monogenetic activity under compressional control in the northern Chile. Gabriel Ureta
- 12.15 pm** Pre-historic effusive ring-fracture activity from the southern caldera's rim of Los Humeros volcanic complex and geothermal field, Eastern Mexico, implications for hazards. Gerardo Carrasco-Núñez
- 12.30 pm** Examining the internal structure and the eruption dynamics of Parícutin monogenetic volcano (1943 – 1952, Mexico) inferred from ERT 3D model combined with historical and geological evidences. Xavier Bolós
- 12.45 pm** Discussion
- 1 pm** Lunch - Sala Carbonera
- 3 pm** **Keynote:** A Tale of Two Fluids: Water and Magma in the Shallow Subsurface. Michael Ort
- 3.15 pm** Garrotxa Volcanic Field as a Link to Young Martian Volcanism. Kei Kurita
- 3.30 pm** Field and experimental analysis of sediment-magma mingling at the 71 Gulch Volcano in the western Snake River Plain, Idaho, USA. Kadie Bennis
- 3.45 pm** How the early syn-eruptive crater infill progressively becomes the lower diatreme: Round Butte, Hopi Buttes volcanic field, Navajo Nation, Arizona. Benjamin Latutrie
- 4 pm** Kiejo-Mbaka (Rungwe Volcanic Province, Tanzania) monogenetic volcanic field evolution. Claudia Príncipe
- 4.15 - 6.30pm** Posters


May 22nd, 2018

Sala Torín, Olot

Session 1

Monogenetic volcanoes: eruption dynamics, growth, structure and physical modeling

Conveners: Joan Martí, Pierre-Simon Ross, Volker Lorenz, Xavier Bolós.

- 9 am** **Keynote:** Linking experimental cratering models to large maar-diatremes. Károly Németh
- 9.15 am** The Stolpen Volcano in the Lausitz Volcanic Field (Eastern Germany) – Studies at the type locality of ‘basalt’. Olaf Tietz
- 9.30 am** Magma fragmentation: a review of main (possible) physical and thermodynamics mechanisms. Roberto Sulpizio
- 9.45 am** Surtsey revisited: Fragmentation and heat transfer studies in the framework of the ICDP project SUSTAIN. Bernd Zimanowski
- 10 am** The Mysterious Grooves of Bárcena. Susan W. Kieffer
- 10.15 am** Shallow magma diversions during explosive diatreme-forming eruptions. Nicolas Le Corvec
- 10.30 am** On the interaction of magma, groundwater and country rocks: two contrasting phreato-magmatic maar-diatreme emplacement models. Volker Lorenz
- 10.45 am** Exploration of miniature volcanology using rootless cones as natural analogues of huge volcanoes across Earth and Mars. Rina Noguchi
- 11 am** Coffee Break
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Session 2

Geochemistry and petrology of monogenetic volcanism related magmas

Conveners: Ian Smith, Giovanni Sosa-Ceballos, Claus Siebe.

- 11.30 am** **Invited Talk:** Felsic rocks within the Michoacán-Guanajuato monogenetic volcanic field; mafic magma-crust interaction? Giovanni Sosa-Ceballos
- 12 pm** **Keynote:** Small- scale basaltic systems and the behavior of the mantle. Ian Smith
- 12.15 pm** Tolbachik group of volcanoes (Kamchatka): the areal type of volcanic activity. Anna Volynets
- 12.30 pm** Monogenetic volcanoes in the northernmost volcanic arc of the Colombian Andes. Hugo Murcia
- 12.45 pm** Quaternary monogenetic volcanism in the Chyulu Hills volcanic field, Kenya: compositional variations in time and space. Elisabeth Widom
- 1 pm** Lunch - Sala Carbonera
- 3 pm** Melt compositions relationships between large polygenetic and adjacent monogenetic edifices: results of melt inclusions study in minerals of two large volcanic centers (Kamchatka). Maria Tolstykh
- 3.15 pm** Implication of 2 Myr of volcanism at Kilauea Pt., Kaua'i for the Origin of Hawaiian Rejuvenated Volcanism. Michael O. Garcia
- 3.30 pm** Tephra laminae in the alginite succession of Pula maar recording large explosive eruptions of basaltic volcanoes of the Mio/Pliocene Bakony-Balaton Highland Volcanic Field (Hungary). Ildikó Soós
- 3.45 pm** Optical and geochemical analysis of the tephra layers from the Hinkelsmaar (Eifel region, Western Germany). Martina Vögtli
- 4 - 6.30 pm** Posters
- 7 pm** **Cultural Dinner** - Hospici

May 23rd, 2018

Sala Torín, Olot

- 9 am - 7 pm** **Field Trip:** Natural Park of La Garrotxa volcanic field: magmatic vs phreatomagmatic activity. The role of the basement to control the eruptive dynamics (departure from Bus Spot).

May 24th, 2018

Sala Torín, Olot

Session 2

Geochemistry and petrology of monogenetic volcanism related magmas

Conveners: Ian Smith, Giovanni Sosa-Ceballos, Claus Siebe.

- 9 am** **Keynote:** Crystal forensic studies to unravel the nature of pre-eruptive magmatic processes in basalt volcanic fields. Szabolcs Harangi
- 9.15 am** Application of Response Surface Methodology (RSM) to Instrumental Mass Fractionation (IMF) prediction in stable isotope SIMS analyses. Carles Fàbrega
- 9.30 am** Discussion

Session 3

Lakes in maar volcanoes: the sedimentary record of paleontology, climate change and hydrochemistry

Conveners: Oriol Oms and Dmitri Rowet.

- 9.45 am** **Invited Talk:** Volcanic lakes in Europe: the role of maar lakes in volcanic hazard assessment. Dmitri Rouwet
- 10.15 am** **Keynote:** Geological and paleontological Pliocene record: introducing the Camp dels Nits maar (Catalan Coastal Ranges, Spain). Oriol Oms
- 10.30 am** High resolution pCO₂ variations in Lake Averno (Italy). Nathalie Hasselle
- 10.45 am** Event Sedimentation in Maar Lakes – the Change in Monotony. Peter Suhr
- 11 am** Coffee Break
- 11.30 am** Enhanced contribution of ENSO to the East Asian Winter Monsoon in Northeast China since the Mid-Holocene. Jing Wu
- 11.45 am** Palaeo-environmental impact of last volcanic eruptions in the Iberian Peninsula: preliminary multi-proxy analysis results from Pla de les Preses palaeolake (Vall d'en Bas, La Garrotxa, NE Iberia). Jordi Revelles
- 12 pm** Millennial and centennial-scale climatic variability recorded in the sediments of Laguna Azul (southern Patagonia, Argentina). Bernd Zolitschka

Session 3

Lakes in maar volcanoes: the sedimentary record of paleontology, climate change and hydrochemistry

Conveners: Oriol Oms and Dmitri Rowet.

- 12.15 pm** The Late Quaternary sediment record from Maar Lake Sihailongwan (northeastern China): diatom-based inferences of limnological and climatic changes. Patrick Rioual
- 12.30 pm** Volcanic Closure of the Alf Valley During the Weichselian Pleniglacial – Witnesses of the Last Glaciation in the Quaternary Westeifel Volcanic Field (Germany). Thomas Lange
- 1 pm** Lunch - Sala Carbonera

Session 4

Volcanic hazard and risk assessment in monogenetic volcanic fields

Conveners: Shane Cronin, Stéphanie Barde-Cabusson, Dario Pedrazzi, José Luis Macias.

- 3 pm** **Keynote:** Using VOLCANBOX to conduct hazard assessment in monogenetic volcanic fields. Joan Martí
- 3.15 pm** Deception Island, Antarctica: eruptive dynamics and volcanic hazards in a post-caldera monogenetic volcanic field. Dario Pedrazzi
- 3.30 pm** Significance of Holocene monogenetic clusters within the Michoacán-Guanajuato Volcanic Field (México). Claus Siebe
- 3.45 pm** Cyclic variation in intensity of explosivity during a maar-diatreme eruption on an ocean island volcano: implications for dynamic hazard models. Bob Tarff
- 4 - 6.30 pm** Posters
- 8 pm** **Gala Dinner** - Restaurant Les Cols.
James Luhr Award


May 25th, 2018

Sala Torín, Olot

Session 5

Natural resources and geotourism development in volcanic areas

Conveners: Kárloy Németh, Michael Ort, Adelina Geyer.

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| 9 am | Invited Talk: Epithermal gold in felsic diatremes. Pierre-Simon Ross |
| 9.30 am | Keynote: We want you to “put in value the volcanism” in the “Styrian volcano land” (Austria). Ingomar Fritz |
| 9.45 am | Irazú’s Southern Volcanic Field: A Place for Learning and Leisure. Eliecer Duarte |
| 10 am | Conservation of the macrovertebrates fossils from fossil-Lagerstätten Camp dels Ninots, as a principal element for disseminate heritage. Souhila Roubach. |
| 10.15 am | Coffe Break |
| 10.45 am | Round Table |
| 12 pm | Conclusions |
| 1 pm | Lunch |
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Map of Olot City

 Les Cols
Restaurant
 26 min.  2.1 km.



In case of emergency call

112

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