

### CONVENERS:

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### S01.08 - Multi-method approaches to screen storage, activation, and transport in magmatic systems

Time	ID	Title	Author Name	Affiliations	Presenter Name
8.30 - 8.45	1020	The tip of the dike: crystals record the conduit opening and magma transport to the surface	Helena Albert (1)   Patricia Larrea (2)   Fidel Costa (1)   Elisabeth Widom (3)   Claus Siebe (2)	(1) Earth Observatory of Singapore, Nanyang Technological University   (2) Istituto de Geofisica, UNAM   (3) Geology & Environmental Earth Science, Miami University	Helena Albert (Invited)
8.45 - 9.00	999	The link between magmatic water content and geophysically determined magma storage depth	Daniel Rasmussen (1)   Terry Plank (1)   Diana Roman (2)   Mindy Zimmer (3)	(1) Lamont-Doherty Earth Observatory, Columbia University, New York, NY, USA   (2) Department of Terrestrial Magnetism, Carnegie Institution for Science, Washington, DC, USA   (3) Pacific Northwest National Lab, Richland, WA, USA	Daniel Rasmussen
9.00 - 9.15	550	Pyroxene residence time of two contrasting Plinian eruptions at Popocatepetl volcano (Mexico)	Chiara Maria Petrone (1)   Yee Lap Leung (2)   Martin Mangler (1,2)   Julie Prytulak (2)	(1) Department of Earth Sciences, The Natural History Museum, London, UK   (2) Department of Earth Science and Engineering, Imperial College, London, UK	Chiara Maria Petrone
9.15 - 9.30	605	Pre-eruptive magmatic processes and their timescales at Vulcano island (southern Italy) during the last 1000 years	Eugenio Nicotra (1)   Marisa Giuffrida (2)   Marco Viccaro (2,3)   Paola Donato (1)   Claudia D'Oriano (4)   Antonio Paonita (4)   Rosanna De Rosa (1)	(1) University of Calabria   (2) University of Catania   (3) INGV, Catania   (4) INGV, Palermo	Eugenio Nicotra
9.30 - 9.45	590	Dynamic interaction between shallow reservoir and deep chamber inside Aso volcano, Japan	Jieming Niu (1)   Teh-Ru Alex Song (1)   Kai Deng (1)	(1) University College London	Jieming Niu
9.45 - 10.00	389	Insights into magma storage and fault-magma interactions in an early-stage continental rift from active deformation and kinematic modelling studies	Sarah J. Oliva (1)   Cynthia J. Ebinger (1)   Christelle Wauthier (2)   James D. Muirhead (3)   Steven W. Roecker (4)   Eleonora Rivalta (5)   Sebastian Heimann (5)   Tobias Fischer (6)   Josef Dufek (7)	(1) Tulane University, New Orleans, Louisiana, USA   (2) Pennsylvania State University, State College, Pennsylvania, USA   (3) Syracuse University, Syracuse, New York, USA   (4) Rensselaer Polytechnic Institute, Troy, New York, USA   (5) GFZ German Centre for Geosciences, Potsdam, Germany   (6) University of New Mexico, Albuquerque, New Mexico, USA   (7) Georgia Institute of Technology, Atlanta, Georgia, USA	Sarah J. Oliva
10.00 - 10.15	178	What controls the arrival of magma at the surface? Interplay between buoyancy and crustal stress field.	Virginie Pinel (1)   Francesco Maccaferri (2)   Eleonora Rivalta (2)   Chloé Michaut (3)   Delphine Smittarello (1)   Alexandre Carrara (1)   Valérie Cayol (4)	(1) Univ. Grenoble Alpes, Univ. Savoie Mont Blanc, CNRS, IRD, IFSTTAR, ISTerre, 38000 Grenoble, France   (2) GFZ German Centre for Geosciences, Section 2.1, Telegrafenberg, 14473 Potsdam, Germany   (3) Université de Lyon, Ecole Normale Supérieure de Lyon, UCBL, CNRS, Laboratoire de Géologie de Lyon -Terre, Planètes, Environnement, 69007 Lyon, France   (4) Laboratoire Magmas et Volcans, Univ. Blaise Pascal, CNRS, IRD, OPGC, Aubière, France	Virginie Pinel
10.15 - 10.30	903	Explosive volcanic eruptions: can we anticipate their size and impact?	Paolo Papale (1)   Simone Colucci (1)	(1) INGV Pisa	Paolo Papale

## S01.08 - Multi-method approaches to screen storage, activation, and transport in magmatic systems

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 48.	152	Paricutin volcano mineral assemblage suggests magmatic evolution controlled by fractionation without significant crustal assimilation	Patricia Larrea (1,2)   Helena Albert (3)   Teresa Ubide (4)   Vanessa Colás (5)   Fidel Costa (3)   Elisabeth Widom (2)   Claus Siebe (1)	(1) Instituto de Geofísica, UNAM   (2) Geology & Environmental Earth Science, Miami University   (3) Earth Observatory of Singapore, Nanyang Technological University   (4) School of Earth and Environmental Sciences, The University of Queensland   (5) Instituto de Geología, UNAM	Patricia Larrea
06 - 49.	154	Temporal evolution of magma and mineral storage conditions in the Bárðarbunga-Veiðivötn volcanic system	Alberto Caracciolo (1)   Enikő Bali (1)   Guðmundur H. Guðfinnsson/ (1)   Maren Kahl (1)   Haraldur Gunnarsson (1)	(1) Institute of Earth Sciences, University of Iceland, Sturlugata 7, 101 Reykjavík, Iceland	Alberto Caracciolo
06 - 50.	165	Eruption trigger mechanisms at arc volcanoes with century-long repose periods: A melt inclusion record of the 2015-2016 Momotombo eruption, Nicaragua	Samantha Tramontano (1),(2)   Marc-Antoine Longpré (2)	(1) City University of New York - The Graduate Center   (2) City University of New York - Queens College (2)	Samantha Tramontano
06 - 51.	225	Groundmass microlite textures of 2014-2015 eruptive products at Sinabung volcano, Indonesia	Yuki Suzuki (1)   Satoshi Kubota (1)   Risa Kitsuda (1)   Setsuya Nakada (2)	(1) Waseda Univ.   (2) ERI, Univ. Tokyo	Yuki Suzuki
06 - 52.	269	Stochastic modelling of Krafla's magma bodies	James Catley (1)	(1) Iceland School of Energy	James Catley
06 - 53.	325	Understanding the origin of magmatic necks: insights from Etna and analogue models	Margherita Fittipaldi (1)   Stefano Urbani (1)   Marco Neri (2)   Daniele Trippanera (1,3)   Valerio Acocella (1)	(1) Dipartimento di Scienze, Università Roma Tre, Italy. L.S.L. Murialdo 1. 00146 Roma, Italy   (2) Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Etno, Sezione di Catania. Piazza Roma, 2 - 95123 Catania, Italy   (3) King Abdullah University of Science and Technology, Thuwal, Saudi Arabia	Margherita Fittipaldi
06 - 54.	406	Multi-stage crystallisation and magma mixing at Popocatepetl volcano, Mexico	Martin Mangler (1,2)   Chiara Maria Petrone (1)   Julie Prytulak (3)   Samuel Hill (2)   Hugo Delgado-Granados (4)	(1) Department of Earth Sciences, Natural History Museum, London, UK   (2) Department of Earth Science and Engineering, Imperial College, London, UK   (3) Department of Earth Sciences, Durham University, Durham, UK   (4) Instituto de Geofísica, Universidad Autónoma de México, Mexico City, Mexico	Martin Mangler
06 - 55.	595	Insights from 17 years of geodetic and petrological observations at Mt. Etna volcano (Italy): definition of a long-term pattern of magma transport and storage	Mimmo Palano (1)   Marco Viccaro (2,1)   Stefano Gresta (2)	(1) Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Catania - Osservatorio Etno, Piazza Roma 2, I-95129 Catania, Italy   (2) Università degli Studi di Catania, Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Sezione di Scienze della Terra, Corso Italia 57, I-95129 Catania, Italy	Mimmo Palano
06 - 56.	149	Determining pre-eruptive volatile behaviour at Campi Flegrei (Italy): an integrated apatite and melt inclusion approach	Michael J Stock (1)   Madeleine CS Humphreys (2)   Victoria C Smith (3)   Roberto Isaia (4)   Richard A Brooker (5)	(1) Department of Earth Sciences, University of Cambridge, UK   (2) Department of Earth Sciences, Durham University, UK   (3) Research Laboratory for Archaeology and the History of Art, University of Oxford, UK   (4) INGV, Osservatorio Vesuviano, Italy   (5) School of Earth Sciences, University of Bristol, UK	Michael J Stock
06 - 57.	691	Diffusion of trace elements during mixing of mafic and silicic magmas: implications for timescales of magma mixing	Diego González-García (1)   Maurizio Petrelli (1)   Harald Behrens (2)   Francesco Vetere (1)   Daniele Morgavi (1)   Diego Perugini (1)	(1) Dipartimento di Fisica e Geologia, Università degli Studi di Perugia, Italy   (2) Institut für Mineralogie, Leibniz Universität Hannover, Germany	Diego González-García
06 - 58.	709	Constraining the P-T-X-t paths of magma storage and migration in the Snæfellsnes Volcanic Belt, W-Iceland	Maren Kahl (1)   Enikő Bali (1) (2)   Guðmundur H. Guðfinnsson (1)   Þorvaldur Þórðarson (1) (2)	(1) Institute of Earth Sciences, University of Iceland   (2) Faculty of Earth Sciences, University of Iceland	Maren Kahl
06 - 59.	727	Using volatile contents to infer the emplacement mechanism of silicic lava flows: An FTIR study of Obsidian Dome, CA.	Stuart M. Kenderes (1)   Kenneth S. Befus (2)   Graham D. M. Andrews (3)   Alan G. Whittington (1)	(1) University of Missouri, Department of Geological Sciences   (2) Baylor University, Department of Geosciences   (3) West Virginia University, Department of Geosciences	Stuart M. Kenderes
06 - 60.	788	Toward a new concept for magma ascent dynamics at monogenic volcanic fields: the archetype of the northern Main Ethiopian Rift	Eugenio Nicotra (1)   Paola Donato (1)   Marco Viccaro (2,3)   Rosanna De Rosa (1)	(1) University of Calabria   (2) University of Catania   (3) INGV, Catania	Eugenio Nicotra
06 - 61.	816	Triggering Mount Etna's most destructive historic eruption. Cryptic magma mixing recorded in clinopyroxene megacrysts.	Ruadhan Magee   Teresa Ubide   Maren Kahl	The University of Queensland   University of Iceland	Ruadhan Magee
06 - 62.	896	Self-feeding rejuvenation of a volcano plumbing system following major explosive eruptions: evidence from the February-April 2017 eruptive activity at Etna	Marco Viccaro (1,2)   Mimmo Palano (2)   Marisa Giuffrida (1)   Francesco Zuccarello (1)   Benedetta Scandura (1)   Stefano Gresta (1)	1) Università di Catania - DSBGA   2) Istituto Nazionale di Geofisica e Vulcanologia - Sezione di Catania	Marco Viccaro
06 - 63.	904	Defining rates of magma ascent and degassing at open-conduit volcanoes: clues to re-evaluating the hazard associated to violent paroxysmal eruptions	Marisa Giuffrida (1)   Marco Viccaro (1,2)   Francesco Zuccarello (1)	1) Università di Catania - DSBGA   2) Istituto Nazionale di Geofisica e Vulcanologia - Sezione di Catania	Marco Viccaro
06 - 64.	966	Pre-eruptive dynamics and geometry of the feeding system during the initial stages of Monte dei Porri volcano (Salina, Aeolian Islands)	Paola Donato (1)   Eugenio Nicotra (1)   Rosanna De Rosa (1)	(1) University of Calabria	Paola Donato
06 - 65.	1095	Combining petrologic and seismic studies to constrain magma storage conditions beneath Marapi volcano, West Sumatra, Indonesia	Dini Nurfiani (2), Wang Xin (1), Kristianto (3), Hetty Triastuty (3), Dannie Hidayat (1), Wei Shengji (1,2), Benoit Taisne (1,2), Caroline Bouvet de Maisonneuve (1,2)	(1) Earth Observatory of Singapore (EOS), Nanyang Technological University; (2) Asian School of the Environment (ASE), Nanyang Technological University; (3) Center for Volcanology and Geological Hazard Mitigation (CVGHM)	Dini Nurfiani
06 - 66.	1121	Zircon and apatite in host andesites and mafic enclaves: unravelling mixed magmatism at Soufrière Hills Volcano, Montserrat, Caribbean	Jane H. Scarrow (1, 2)   Jenni Barclay (1)   Matthew S.A. Horstwood (3)   Jeremy Rushton (3)   Andrew Bloore (1)	(1) School of Environmental Sciences, University of East Anglia, Norwich, NR4 7TJ, UK   (2) Department of Mineralogy and Petrology, University of Granada, 18071, Granada, Spain   (3) British Geological Survey, Keyworth, Nottingham NG12 5GG, UK	Jane H. Scarrow