

MT41A: I.4 Arc evolution: space, time, morphology, and longevity of volcanic arcs II			
Thursday August 17, 2017. 10:30 AM - 12:30 PM Room A106			
Abstract Number	Time	Authors	Title
MT41A-1 (invited)	10:30 AM - 10:45 AM	Christy Till, Adam Kent, Geoffrey Abers	An interdisciplinary synthesis of mantle conditions, crustal storage and seismic velocities in the Southern-Central Cascades Arc
MT41A-2	10:45 AM - 11:00 AM	Tom Sheldrake, Luca Caricchi	Tectonic and thermal controls on the magnitude and rate of eruptive activity at convergent margins
MT41A-3	11:00 AM - 11:15 AM	Angelo Castruccio, Mikel Diez	The influence of magmatic system properties on volcano morphology and evolution: A comparison between the Central and Southern Volcanic Zones of Chile
MT41A-4	11:15 AM - 11:30 AM	Darren Gravley, Guilherme Gualda, Chad Deering	High-resolution mantle-crust feedback demonstrated in a 'quick' ignimbrite flare-up, Taupo Volcanic Zone, New Zealand
MT41A-5	11:30 AM - 11:45 AM	Richard Carlson, Timothy Grove, Julie Donnelly-Nolan	The Origin of Calc-Alkaline and Tholeiitic Primary Magmas: The Example from Primitive Basalts of Newberry Volcano, Oregon
MT41A-6	11:45 AM - 12:00 PM	Simon Barker, Michael Rowe, Joel Baker, Colin Wilson, Shane Rooyakkers, Chris Conway	MELT INCLUSIONS IN OLIVINE XENOCRYSTS PROVIDE A 'WINDOW' THROUGH LARGE SILICIC MAGMA SYSTEMS
MT41A-7	12:00 PM - 12:15 PM	Michael Mann, Geoffrey Abers, Kayla Crosbie, Kenneth Creager, Carl Ulberg	Geometry of the crust and subducting Juan de Fuca plate beneath the Mount St. Helens region using array-based receiver functions
MT41A-8	12:15 PM - 12:30 PM	Kayla Crosbie, Geoffrey Abers, Kenneth Creager, Helen Janiszewski, Eric Kiser, Carl Ulberg, Roger Denlinger, Seth Moran	Velocity structure of Mount St. Helens, WA region from the joint inversion of ambient noise and earthquake surface waves

ME41A: II.2 Basaltic eruption styles and transitions in intensity: from driving processes to impacts II			
Thursday August 17, 2017. 10:30 AM - 12:30 PM Room B113			
Abstract Number	Time	Authors	Title
ME41A-1 (invited)	10:30 AM - 10:45 AM	Sylvie Vergnolle, Christelle Zielinski, Viviane Souty, Philipson Bani, Alexis Le Pichon, Michel Lardy, Philippe Millier, Pascal Herry, Sylvain Todman	Insights into eruptive dynamics at open-vents volcanoes from quasi-continuous infrasonic records (2003-2014) at Yasur (Vanuatu)
ME41A-2	10:45 AM - 11:00 AM	Jenny Suckale, Tobias Keller	Huffing and puffing: Modeling the physics of passive degassing, puffing, and Strombolian eruptions in basaltic volcanoes
ME41A-3	11:00 AM - 11:15 AM	Ryohei Kawaguchi, Tetsuya Yamamoto, Shin'ya Onizawa	Modeling of gas bubbles rise in a magma chamber and its application to periodic ground deformation at Izu-Oshima volcano
ME41A-4 (invited)	11:15 AM - 11:30 AM	Bruce Houghton, Tim Orr, Bianca Mintz, Jacopo Taddeucci, Elisabetta Del Bello, Damien Gaudin, Ullrich Kueppers, Rebecca Carey, Marie Edmonds	Transitions in style and intensity during Strombolian and Hawaiian eruptions: examples from Kilauea in 2011-2017
ME41A-5	11:30 AM - 11:45 AM	Margherita Polacci, Fabio Arzilli, Nolwenn Burton, Giuseppe La Spina, Biao Cai, Margaret Hartley, Danilo Di Genova, Nghia Vo, Sara Nonni, Ed Llewellyn, Robert Atwood, Peter Lee, Mike Burton	4D crystallisation in basaltic magmas
ME41A-6	11:45 AM - 12:00 PM	James Muller, Marc-Antoine Longpré	Tephra dispersal and composition reveal the explosive onset of the CE 1730–1736 Timanfaya eruption, Lanzarote, Canary Islands
ME41A-7	12:00 PM - 12:15 PM	Hans-Ulrich Schmincke, Mari Sumita, Deniz Cukur	A large-volume explosive basaltic eruption: The 80 ka Incekaya system in eastern Turkey
ME41A-8	12:15 PM - 12:30 PM	Sébastien Biass, Don Swanson, Bruce Houghton	A new perspective on the 19th century golden pumice deposit of Kilauea

ME41B: II.7 Architecture of magmatic plumbing systems VI			
Thursday August 17, 2017. 10:30 AM - 12:30 PM Ballroom 201-203			
Abstract Number	Time	Authors	Title
ME41B-1 (invited)	10:30 AM - 10:45 AM	Philipp Ruprecht, Heather Winslow, Matthew Pritchard, Daniel Basualto, Francisco Garcia	Recharge of silicic magmatic systems - Mafic magmas driving the 2011 Puyehue-Cordón Caulle eruption?
ME41B-2	10:45 AM - 11:00 AM	LiLu Cheng, Fidel Costa	Quantification of multiple plagioclase crystal populations using fractal analysis of mineral and glass inclusions
ME41B-3	11:00 AM - 11:15 AM	Guilherme Gualda, Darren Gravley, Chad Deering, Mark Ghorso	Magma extraction and storage pressures over time in the Taupo Volcanic Zone flare-up: The changing architecture of magmatic systems retrieved using rhyolite-MELTS geobarometry

ME41B-4	11:15 AM - 11:30 AM	Juliet Ryan-Davis, Judy Fierstein	Evidence for mafic magma injection associated with the high-silica rhyolite, postglacial plinian eruption at the Laguna del Maule volcanic field, Chile
ME41B-5	11:30 AM - 11:45 AM	Marc-Antoine Longpre, Kelly Yong	Zoning patterns in olivine macrocrysts from Lanzarote, Canary Islands: Insights into magma ascent rate from the mantle during large basaltic fissure eruptions?
ME41B-6	11:45 AM - 12:00 PM	Valbone Memeti, Cal Barnes, Kevin Werts, Dustin Williams, Louis Oppenheim, Melanie Barnes, Scott Paterson	Using mineral geochemistry to unravel waxing and waning magmatism in the Tuolumne Intrusive Complex plumbing system, central Sierra Nevada, California
ME41B-7	12:00 PM - 12:15 PM	Scott Paterson, Katie Ardill, Vali Memeti	Regional scale magma focusing in the central Sierra Nevada, California: Evolving magma chamber and final intrusive sizes, shapes and volumes in the plutonic plumbing beneath volcanic center
ME41B-8	12:15 PM - 12:30 PM	Leif Karlstrom, Scott Paterson, Mark Jellinek	A reverse energy cascade for crustal magma transport

ME41C: II.8 Investigating conduit processes and eruption dynamics by integrating experiments, numerical modelling, observations, and sample analysis I

Thursday August 17, 2017. 10:30 AM - 12:30 PM Room A107-109

Abstract Number	Time	Authors	Title
ME41C-1	10:30 AM - 10:45 AM	Carolyn Parcheta, Aaron Parness, Jeremy Nash, Karl Mitchell	VolcanoBot: Imaging volcanic fissure conduits from the inside out, with implications for lava fountain dynamics
ME41C-2	10:45 AM - 11:00 AM	Janine Kavanagh, Simon Martin, Suraya Hilmi Hazim, Elliot Wood, David Dennis, Alec Burns, Andrew Biggin, Megan Phillips	Interpreting magma flow and host-rock deformation during magma ascent: A multidisciplinary study
ME41C-3	11:00 AM - 11:15 AM	Akihiko Yokoo, Kyoka Ishii, Takahiro Ohkura, Takahito Kazama	Monotonic infrasound waves at the 2014–2015 eruption of Aso Volcano, Japan
ME41C-4	11:15 AM - 11:30 AM	Amelia Bain, Eliza Calder, Joaquín Cortés, Gloria Patricia Cortés, Diego Mauricio Gómez, Roberto Torres, Susan Loughlin	Repeated emplacement and destruction of stratified andesitic magma plugs in the shallow conduit of Galeras volcano between 2004-2012
ME41C-5	11:30 AM - 11:45 AM	Megan Newcombe, Alexander Lloyd, David Ferguson, Anna Barth, Erik Hauri, Terry Plank	Syneruptive cooling rates and decompression rates of magmas from volcanoes with contrasting eruptive styles
ME41C-6	11:45 AM - 12:00 PM	Katherine J. Dobson	Taking the strain: Quantifying 3-phase microstructural evolution during flow using ultra fast X-ray tomography
ME41C-7	12:00 PM - 12:15 PM	Sarah H. De Angelis, Paul A. Wallace, Jackie E. Kendrick, Adrian J. Hornby, Felix W. Von Aulock, Stephen Clesham, Takehiro Hirose, Donald B. Dingwell	Impact of mineralogy on frictional melting in the conduit: An experimental study of Soufrière Hills Volcano and Volcán de Colima
ME41C-8	12:15 PM - 12:30 PM	Fabio Arzilli, Margherita Polacci, Daniele Morgavi, Maurizio Petrelli, Mike Burton, Giuseppe La Spina, Margaret Hartley, Jorge Romero Moyano	Conduit dynamics and triggering mechanism of the April 2015 sub-Plinian eruption of Calbuco volcano, southern Chile

PE41A: III.1 Forecasting volcanic eruptions I

Thursday August 17, 2017. 10:30 AM - 12:30 PM Room B110-112

Abstract Number	Time	Authors	Title
PE41A-1 (invited)	10:30 AM - 10:45 AM	Stephanie Prejean, Jay Wellik, Jeremy Pesicek, Cheryl Cameron, John Ewert, John Lyons, Wendy McCausland, Randall White	Monitored volcanoes with unforecast eruptions: What are we missing?
PE41A-2	10:45 AM - 11:00 AM	Corentin Caudron, Tártilo Girona	Towards forecasting phreatic eruptions using volcano-seismic tremor
PE41A-3	11:00 AM - 11:15 AM	Wendy McCausland, Randall White	A Process-based Model of Pre-eruption Seismicity Patterns and its use for eruption forecasting at dormant stratovolcanoes
PE41A-4	11:15 AM - 11:30 AM	Christopher Kilburn, Richard Wall, Robert Robertson	Forecasting eruptions after long repose intervals
PE41A-5	11:30 AM - 11:45 AM	Stephen McNutt, Glenn Thompson, Jochen Braumiller, Stephen Holtkamp	Peak Rates and Largest Magnitude Events in Volcanic Earthquake Swarms and Mid-Ocean Ridge Swarms
PE41A-6	11:45 AM - 12:00 PM	Jeremy Pesicek, Sarah Ogburn, J. Jay Wellik	Toward a global assessment of patterns in precursory and eruptive seismicity for improved eruption forecasting
PE41A-7	12:00 PM - 12:15 PM	Ima Itikarai	Application of high frequency volcano-tectonic earthquakes for forecasting volcanic eruptions
PE41A-8	12:15 PM - 12:30 PM	Lauriane Chardot, Benoit Taisne	Testing an alternative model to explain results from the Material Failure Forecast Method

PE41B: III.2 Geophysical multi-parameters techniques for monitoring active volcanoes II			
Thursday August 17, 2017. 10:30 AM - 12:30 PM Room B117-119			
Abstract Number	Time	Authors	Title
PE41B-1 (invited)	10:30 AM - 10:45 AM	Jeffrey Bruce Johnson, Leighton Miles Watson, Eric Dunham, Jose Luis Palma, Luis Franco Marin, Carlos Cardona, Alexander Miller	Forecasting Paroxysmal Eruptions at Volcán Villarrica (Chile) Using Infrasond
PE41B-2	10:45 AM - 11:00 AM	Kathleen McKee, David Fee, Matthew Haney, John Lyons, Robin Matoza	Infrasond signal detection and characterization using ground-coupled airwaves on a single seismo-acoustic sensor pair
PE41B-3	11:00 AM - 11:15 AM	Yunjun Zhang, Falk Amelung, Yosuke Aoki	Diverse volcanic deformation in Kyushu, SW Japan from a decade of L-Band InSAR time series analysis
PE41B-4	11:15 AM - 11:30 AM	Michael Lisowski, Rob McCaffrey	Time-dependent modeling of contemporary tectonic and volcanic deformation in the Cascade volcanic arc, USA
PE41B-5	11:30 AM - 11:45 AM	Scott Henderson, Matthew Pritchard, Francisco Zoffoli, Michael Poland, Juliet Biggs, David Arnold, Susanna Ebmeier, Christelle Wauthier, Kirsten Stephens, Kendall Wnuk, Falk Amelung, Eugenio Sansosti, Simona Zoffoli, Patricia Mothes, Orlando Macedo, Luis Lara, Paul Lundgren, Sergey Samsonov, Cristian Lopez	Lessons learned from coordinated regional multi-satellite volcano observations 2013-2017: The CEOS Latin America pilot project
PE41B-6	11:45 AM - 12:00 PM	Vincent Drouin, Freysteinn Sigmundsson, Sigrun Hreinsdottir	Inflation events and quiescent periods since 1993 at Theistareykir central volcano, Iceland: role of magma intrusions for geothermal utilization
PE41B-7	12:00 PM - 12:15 PM	Maria Furtney, Matt Pritchard, Simon Carn, Susi Ebmeier, Jennifer Jay Hsu, Brendan McCormick	Assessing volcanic unrest from space: a global integration of multi-sensor satellite data
PE41B-8	12:15 PM - 12:30 PM	Hideyuki Itoh, Hidekazu Kakuno, Morio Tsuji, Seima Ichikawa, Shinya Narita, Fumihiko Takasaki	Radiographic measurements of the internal structure of the Iwate Volcano using cosmic-ray muons and groundwater chemical composition

PE41C: III.8 Progress in understanding submarine volcanism II			
Thursday August 17, 2017. 10:30 AM - 12:30 PM Room B116			
Abstract Number	Time	Authors	Title
PE41C-1 (invited)	10:30 AM - 10:45 AM	Rebecca Carey, Adam Soule	The role of the ocean in submarine silicic volcanism: morphologic and quantitative data from the Havre 2012 submarine eruption compared to subaerial analogues
PE41C-2	10:45 AM - 11:00 AM	Arran Murch, James White, Rebecca Carey, Bernd Zimanowski, Ralf Büttner	Generation and deposition of fine ash produced in a deep subaqueous eruption at Havre Volcano
PE41C-3	11:00 AM - 11:15 AM	Ken Rubin, Robert Embley, David Clague, William Chadwick	Eruption styles at 1.2 km deep West Mata Submarine Volcano summit revealed by video observations and deposit mapping
PE41C-4	11:15 AM - 11:30 AM	Scott Noonan, William Chadwick, David Caress, Jennifer Paduan, David Clague	Using high-resolution repeat AUV bathymetry to constrain magma dynamics at Axial Seamount
PE41C-5	11:30 AM - 11:45 AM	Kazuhiko Kano	Internal structures and growth of an early Miocene deep submarine tephra cone at Morokui, Shimane Peninsula, SW Japan
PE41C-6	11:45 AM - 12:00 PM	Manuela Tost, Shane Cronin, Marco Brenna, Ian Smith, Simon Barker, Mathieu Colombier, Brendan Hall	The formation of the youngest volcanic cone in the world: Hunga Tonga-Hunga Ha'apai
PE41C-7	12:00 PM - 12:15 PM	Martin Jutzeler, Michael Manga, James White, Peter Talling	Pyroclastic flows traveling over the sea and their seafloor deposits, IODP 340
PE41C-8 (invited)	12:15 PM - 12:30 PM	Michael Perfit	Geochemical Diversity of Near-ridge Seamount Chains: What they tell us about mantle sources and melting in the off-axis environment

VO41A: IV.3 The role of volatiles and degassing in magmatic and eruptive processes III			
Thursday August 17, 2017. 10:30 AM - 12:30 PM Room B114-115			
Abstract Number	Time	Authors	Title
VO41A-1	10:30 AM - 10:45 AM	Luca Caricchi, Tom Sheldrake, Jon Blundy	CO ₂ -triggered destabilisation of magmatic systems
VO41A-2	10:45 AM - 11:00 AM	Alessandro Aiuppa, Marcello Bitetto, Maarten Moretti, Gaetano Giudice, Marco Liuzzo, Giancarlo Tamburello, Gabriela Velasquez, Angelo Battaglia, Claudia Bucarey Parra, Vincenzo Francofonte, Andrea Mastroli, Elvis Mendoza, Roberto Moretti, Armando Saballos	A volatile (CO ₂) trigger for eruptions of mafic arc volcanoes: Insights from instrumental gas observations (2014-2017) at Villarrica and Masaya volcanoes

VO41A-3	11:00 AM - 11:15 AM	Tobias Fischer, Patrick Allard, Alessandro Taran, Bo Galle, J. Maarten de Moor, Taryn Lopez, Giovanni Chiodini, Brendan McCormick, Hiroshi Shinohara, Nicole Bobrowski, Erik Hauri, Marie Edmonds, Yuri Taran, Elizabeth Cottrell, Kerstin Lehnert	Deep Earth Carbon Degasing: Results from the Deep Carbon Observatory DECADE initiative
VO41A-4 (invited)	11:15 AM - 11:30 AM	Yves Moussallam, Nial Peters, Philipson Oppenheimer, C. Ian Schipper, Talfan Barnie, Aaron Curtis, Alessandro Aiuppa, Giancarlo Tamburello, Joao Lages, Pablo Masias, Fredy Apaza, Silvana Hidalgo, FReddy Vasconez, Marco Almeida, Diego Narvaez, Alvaro Amigo, Gabriela Velasquez, Carlos Cardona, Gaetano Giudice, Marie Boichu, David Pieri, Ashley Davies, Clive Oppenheimer	A snapshot of volatile degassing at the scale of an entire subduction zone; the "Trail by Fire" expedition
VO41A-5	11:30 AM - 11:45 AM	Joao Lages, Alessandro Aiuppa, Andrea Luca Bernard, Tobias Fischer, Diego Narvaez, Philipson Bani, Yves Moussallam, C. Ian Schipper, Viviana Burbano, Silvana Hidalgo, Pablo Samaniego, Jean-Luc Le Pennec, Benjamin Bernard, Gustavo Garzón	Subduction dynamics, mantle and crustal processes at arc volcanoes, investigated by relative CO ₂ /ST abundances and 3He/4He isotope signatures
VO41A-6	11:45 AM - 12:00 PM	Patrick Allard, Alessandro AIUPPA, Philipson BANI, Nicole METRICH, Antonella Bertagnini, Michael Burton, Pierre-Jean GAUTHIER, Francesco PARELLO, Hiroshi SHINOHARA, Georgina SAWYER, Emanuela BAGNATO, Eslina GARAEBITI	Volatile budget, magma dynamics and plumbing system of a top-ranking basaltic gas emitter: Ambrym volcano, Vanuatu Arc
VO41A-7	12:00 PM - 12:15 PM	Swetha Venugopal, Séverine Moune, Glyn Williams-Jones, Alexander Wilson, Kelly Russell	Gas emissions and magma source of the Mount Meager Volcanic Complex, Garibaldi Volcanic Belt, BC
VO41A-8	12:15 PM - 12:30 PM	Pedro A. Hernández, Gladys Melián, Nemesio García, Luca D'Auria, María Asensio-Ramos, Eleazar Padrón, Mar Alonso, Fátima Rodríguez, Marta García-Merino, Germán Padilla, Cecilia Amonte, Aarón Pérez, Rubén García, David Calvo	Observed anomalous changes of diffuse CO ₂ emission at the summit crater of Teide volcano (Tenerife, Canary Islands): evidence of volcanic unrest or increase gas release from a stationary magma body?

VH41A: V.2 Volcano geomorphology and sedimentology: topography, processes, and deposits II

Thursday August 17, 2017. 10:30 AM - 12:30 PM Room A105

Abstract Number	Time	Authors	Title
VH41A-1 (invited)	10:30 AM - 10:45 AM	Sylvain Charbonnier, Elodie Macorps, Fenghui Deng, Jean-Claude Thouret, Eliza Calder	Integrating high-resolution digital mapping and field-derived data to investigate the dynamics and hazards of volcanic mass flows
VH41A-2	10:45 AM - 11:00 AM	Anke Verena Zernack, Jonathan Procter, Shane Cronin, Emma Singh	A complex interplay of sediment erosion and deposition during the 18 March 2007 crater-lake breakout lahar at Mt. Ruapehu, New Zealand
VH41A-3	11:00 AM - 11:15 AM	Amelia Winner, Ken Ferrier, Josef Dufek, William Guinn	Experimental and Numerical Determination of Bed Force Distributions in Concentrated Pyroclastic Density Currents
VH41A-4	11:15 AM - 11:30 AM	Richard B. Waitt, Richard P. Hoblitt	The 18 May 1980 Pyroclastic Surge at Mount St. Helens as Two Separate Events
VH41A-5 (invited)	11:30 AM - 11:45 AM	Patrick Whelley, W. Brent Garry, Christopher W. Hamilton, Jacob Richardson, Jacob Bleacher	Using roughness patterns to study volcanic deposit textures in remotely sensed topographic data
VH41A-6	11:45 AM - 12:00 PM	Angela Diefenbach, Steve Schilling	Thirty six years of topographic change at Mount St. Helens viewed through consistent high-resolution terrain modeling
VH41A-7	12:00 PM - 12:15 PM	Nicole Richter, Jacqueline T. Salzer, Elske de Zeeuw-van Dalfsen, Daniele Perissin, Mehdi Nikkhoo, Thomas R. Walter	Morphology, dynamics and evolution of a nested volcanic crater system: insights from integrated ground- and spaceborne techniques at Láscar Volcano, Chile
VH41A-8	12:15 PM - 12:30 PM	Daniel O'Hara, Leif Karlstrom, Paul Richardson	How Does Intrusive Magmatism Influence Landscape Evolution?

MT42A: I.4 Arc evolution: space, time, morphology, and longevity of volcanic arcs III

Thursday August 17, 2017. 2:00 PM - 4:00 PM Room A105

Abstract Number	Time	Authors	Title
MT42A-1	2:00 PM - 2:15 PM	Peter Lipman, Matthew Zimmerman	Magmato-Tectonic Links: Ignimbrite Calderas, Regional Dike Swarms, and the Transition from Arc to Rift in the Southern Rocky Mountains
MT42A-2	2:15 PM - 2:30 PM	Gary Michelfelder, Alicia Wilder, Emily Salings	Geochemical and Isotopic Data from Micron to Across-Arc Scale in the Andean Central Volcanic Zone: Resolving Crustal Magmatic Differentiation and Modification Processes
MT42A-3	2:30 PM - 2:45 PM	Richard Conrey, David Sherrrod, William Leeman	Relation between extension, volcanic production rates, and arc rock geochemistry, Cascades volcanic arc, USA

MT42A-4	2:45 PM - 3:00 PM	Bradley Pitcher	Geochemical Variability and a Statistically Robust Segmentation of the Cascade Arc
MT42A-5	3:00 PM - 3:15 PM	William Leeman, Rick Conrey	Along-strike Variations in Compositions of Cascades Primitive Mafic Magmas: Implications for Compositional and Thermal Structure of the Mantle Wedge
MT42A-6	3:15 PM - 3:30 PM	Elena Melekhova, David Schlaphorst, Jon Blundy, Michael Kendall	Geophysical and petrological constraints on crustal structure variation along the Lesser Antilles arc
MT42A-7	3:30 PM - 3:45 PM	Terry Plank, Daniel Rasmussen, Lindsay Buff, Einat Lev, Diana Roman, Erik Hauri, Kirsten Nicolaysen, Pavel Izbekov	THE ROLE OF SLAB DEPTH IN THE MAGMA INPUT TO VOLCANIC ARCS
MT42A-8 (invited)	3:45 PM - 4:00 PM	Steffen Kutterolf, Julie Christin Schindlbeck, Marion Jegen, Armin Freundt, Susanne Straub	Milankovitch frequencies in tephra records at volcanic arcs: Does climate control volcanism?

ME42A: II.5 Using geochronology and quantitative petrology to understand the P-T-X evolution of magmatic systems leading up to volcanic eruptions I

Thursday August 17, 2017. 2:00 PM - 4:00 PM Room A107-109

Abstract Number	Time	Authors	Title
ME42A-1	2:00 PM - 2:15 PM	Adam Curry, Luca Caricchi, Peter Lipman	Determining the physical and chemical processes behind four caldera-forming eruptions in rapid succession in the San Juan caldera cluster, Colorado, USA
ME42A-2	2:15 PM - 2:30 PM	Xavier Quidelleur, Julia Ricci, Pierre Lahitte, Carlos Pallares	The K-Ar Cassinot-Gillot technique as a tool to reveal evolution of volcanic systems: Example of Basse-Terre Island (Lesser Antilles)
ME42A-3	2:30 PM - 2:45 PM	Kata Molnar, Szabolcs Harangi, Reka Lukacs, Istvan Dunkl, Axel K. Schmitt, Mihaly Molnar, Agnes Novothny, Balazs Kiss	A detailed eruption chronology of the Ciomadul lava dome field (Eastern Carpathians, Romania) based on (U-Th)/He zircon dating
ME42A-4	2:45 PM - 3:00 PM	Adonara Mucek, Shanaka de Silva, Daniel Miggins, Martin Danišik, Axel Schmitt, Indyo Pratomo	Post-74 ka supereruption magma dynamics at Toba Caldera, Indonesia: Constraints from phase equilibria, 40Ar/39Ar and (U-Th)/He age determination
ME42A-5	3:00 PM - 3:15 PM	Matthew Coble, Seth Burgess	New zircon U/Pb and (U-Th)/He eruption age for the Rockland tephra from Lassen Volcanic Center in the southern Cascade arc
ME42A-6	3:15 PM - 3:30 PM	Bo Pan, Shanaka de Silva, Jiandong Xu	Magmatic and eruption processes of the Millennium eruption at Changbiashan Tianchi volcano, China/North Korea
ME42A-7	3:30 PM - 3:45 PM	Frank Ramos, Jacob Buettner, John Wolff, Alicia Lopez	Ra-Ba Partitioning in Young Trachytic Sanidine at Changbaishan Volcano, China: Variable Ages and Partition Coefficients Determined Using Mass Balance, Measured Crystals, and Theoretical Calculations
ME42A-8	3:45 PM - 4:00 PM	Nathan Andersen, Brian Jicha, Brad Singer, Wes Hildreth	Recognizing signal through the noise: pre-eruptive incorporation of 40Ar in Bishop Tuff sanidine revealed by single-crystal 40Ar/39Ar incremental heating

ME42B: II.7 Architecture of magmatic plumbing systems VII

Thursday August 17, 2017. 2:00 PM - 4:00 PM Ballroom 201-203

Abstract Number	Time	Authors	Title
ME42B-1	2:00 PM - 2:15 PM	Tobias Mattsson, Steffi Burchardt, Bjarne Almqvist	Insights into cryptodome emplacement from the Sandfell laccolith, eastern Iceland – implications for seismic and geodetic monitoring
ME42B-2	2:15 PM - 2:30 PM	Simon Martin, Janine Kavanagh, Andy Biggin	How are variations in magma flow recorded across the breadth of intrusions? Insights from magnetic anisotropy and petrological studies
ME42B-3	2:30 PM - 2:45 PM	Øystein Thordén Haug, Olivier Galland, Alban Souche, Pauline Souloumiac	Shear failure versus tensile opening at sill tips: insights from limit analysis modeling
ME42B-4	2:45 PM - 3:00 PM	Danielle Koebli, Aurelie Germa, Zachary Atlas, Paul Wetmore, Austin Arias, Charles Connor	A Geochemical and Petrological Investigation of dikes and sills from the San Rafael Volcanic Field, Utah
ME42B-5	3:00 PM - 3:15 PM	Meredith Townsend, David Pollard	Re-examining the “level of neutral buoyancy” and its role in dike stability
ME42B-6	3:15 PM - 3:30 PM	Atsuko Namiki, Timothy Wilely, Heiko Woith, Eleonora Rivalta, Stefano Parolai, Thomas R. Walter	An elevated volcanic region prevents eruptions but its resonance may trigger an eruption
ME42B-7	3:30 PM - 3:45 PM	Sam Poppe, Olivier Galland, Nico Buls, Gert Van Gompel, Eoghan Holohan, Matthias Rosenau, Régis Mourgues, Matthieu Kervyn	An unusual patient: 4D X-ray Computed Tomography of analogue magma intrusion experiments
ME42B-8	3:45 PM - 4:00 PM	Håvard Svanes Bertelsen, Frank Guldstrand, Olivier Galland	Dyke tip processes and large-scale deformation: implications for geodetic modelling

ME42C: II.8 Investigating conduit processes and eruption dynamics by integrating experiments, numerical modelling, observations, and sample analysis II

Thursday August 17, 2017. 2:00 PM - 4:00 PM Room A106

Abstract Number	Time	Authors	Title
ME42C-1	2:00 PM - 2:15 PM	Ying-Qi Wong	Constraining the magmatic system at Mount St. Helens (2004-2008) using Bayesian inversion with physics-based models including gas escape and crystallization
ME42C-2	2:15 PM - 2:30 PM	Yan Lavallee, Jose Godinho, Jackie Kendrick, Biao Cai, Katherine Dobson, Felix von Aulock, Robert Atwood, Marian Holness	Flow, fracture and vesiculation in shearing basaltic magmas revealed by synchrotron imaging
ME42C-3	2:30 PM - 2:45 PM	Samuel Mitchell, Bruce Houghton, Rebecca Carey	Giant Pumice: A window into the physical and geochemical heterogeneity of a deep submarine silicic volcanic conduit
ME42C-4	2:45 PM - 3:00 PM	Amy Ryan, Elizabeth Friedlander, Kelly Russell, Michael Heap, Lori Kennedy	Hot pressing of gouge during the 2004-2008 eruption of Mount St. Helens
ME42C-5	3:00 PM - 3:15 PM	Thomas Jones, Edward Llewellyn, Laura Höltingen	In-conduit magma convection during basaltic fissure eruptions

ME42C-6	3:15 PM - 3:30 PM	Leighton M. Watson, Eric M. Dunham, Jeffrey B. Johnson, Hugo David Ortiz Erazo, Alex J. C. Miller, Mario Ruiz	Infrasonic Resonance of Volcanic Craters
ME42C-7	3:30 PM - 3:45 PM	Mathieu Colombier, Fabian Wadsworth, Katherine Dobson, Jeremie Vasseur, Francisco Cáceres, Bettina Scheu, Manuela Tost, Shane Cronin, Tim I. Yilmaz, Kai-Uwe Hess, Bernhard Ruthensteiner, Donald Bruce Dingwell	The percolation threshold in magma: Insights from laboratory measurements, in situ synchrotron experiments and numerical simulations
ME42C-8	3:45 PM - 4:00 PM	Zhipeng Qin, Jenny Suckale	From the lab to the volcano: Using numerical simulations to generalize bi-directional conduit flow from analogue experiments to magmatic systems

PE42A: III.1 Forecasting volcanic eruptions II**Thursday August 17, 2017. 2:00 PM - 4:00 PM Room B110-112**

Abstract Number	Time	Authors	Title
PE42A-1 (invited)	2:00 PM - 2:15 PM	Hendra Gunawan	Volcano Monitoring System, Data Management, and Data Processing Automation for Crisis Response at Sinabung Volcano, Indonesia
PE42A-2 (invited)	2:15 PM - 2:30 PM	Kyle Anderson	Probabilistic short-term forecasting of eruption rate at Kīlauea Volcano using a physics-based model
PE42A-3	2:30 PM - 2:45 PM	Philippe Lesage, Anaïs Boué, Guillermo Cortés Moreno, Bernard Valette, Raul Arámbula-Mendoza, Agus Budi-Santoso	Massive data processing and evaluation of the success rate of deterministic eruption forecasting
PE42A-4	2:45 PM - 3:00 PM	John Stix	Understanding unrest at ramp-down and ramp-up volcanoes
PE42A-5	3:00 PM - 3:15 PM	Annemarie Christophersen, Lauriane Chardot, Nico Fournier	Bayesian Networks as potential decision support tools in monitoring volcanoes and forecasting eruptions
PE42A-6	3:15 PM - 3:30 PM	Mark Bebbington, Mark Stirling, Shane Cronin, Ting Wang, Gill Jolly	National-level long-term eruption forecasts by expert elicitation
PE42A-7	3:30 PM - 3:45 PM	Stephen Sparks, Jonathan Rougier, Katharine Cashman, Natalia Delinge, Sarah Brown	Analysis of LaMEHT database for large magnitude explosive eruptions: implications for under-recording and magnitude-frequency relationship
PE42A-8	3:45 PM - 4:00 PM	Kevin Reath, Matthew Pritchard, Alison Alcott, Samantha Moruzzi, Dave Pieri, Justin Linick	The ASTER Volcanic Thermal Anomaly Database

PE42B: III.2 Geophysical multi-parameters techniques for monitoring active volcanoes III**Thursday August 17, 2017. 2:00 PM - 4:00 PM Room B117-119**

Abstract Number	Time	Authors	Title
PE42B-1	2:00 PM - 2:15 PM	Clare Donaldson, Corentin Caudron, Robert Green, Bryndis Brandsdóttir, Þorbjörg Ágústsdóttir, Jenny Woods, Robert White	Volcano monitoring with seismic noise-based methods: insights from the Northern Volcanic Zone, Iceland and Kīlauea, Hawai'i
PE42B-2	2:15 PM - 2:30 PM	Taka'aki Taira, Adrian Borsa, Florent Brenguier, John Vidale	Ambient-noise time-lapse monitoring of seismic velocity at Newberry Volcano, Oregon
PE42B-3	2:30 PM - 2:45 PM	Þorbjörg Agustsdottir, Robert S. White, Tim Greenfield, Jennifer Woods, Tom Hudson, Bryndis Brandsdottir	An overview of the 2014-2015 Bárðarbunga-Holuhraun volcano-rifting episode: Intrusive, co- and post-eruptive seismicity in Bárðarbunga caldera, central Iceland
PE42B-4	2:45 PM - 3:00 PM	Andrew Bell, Stephen Hernandez, H. Elizabeth Gaunt, Patricia Mothes, Mario Ruiz, Santiago Aguiza, Daniel Sierra	Drumbeat earthquakes and related quasi-periodic low frequency seismicity at Tungurahua volcano, Ecuador
PE42B-5	3:00 PM - 3:15 PM	Azusa Mori, Hiroyuki Kumagai	High-frequency seismic source amplitude of eruption tremor and its use for estimating eruption plume height
PE42B-6	3:15 PM - 3:30 PM	Yuichi Morita	Detection of rising volatile from multi-parameters of seismicity based on stress response of volcanic earthquakes
PE42B-7	3:30 PM - 3:45 PM	Hiroyuki Kumagai, Yuta Maeda, John Londoño, Cristian López, Lina Castaño, Beatriz Galvis, Lina García	Magma conduit system beneath Nevado del Ruiz volcano, Colombia, inferred from seismic waveform analyses
PE42B-8	3:45 PM - 4:00 PM	Jurgen Neuberg, Amy Collinson, Patricia Mothes, Luke Marsden, Dinko Sindija	Volcano seismicity and tilt in a wide frequency range

PE42C: III.4 Wet volcanoes: aquifers and lakes and their related hazards I**Thursday August 17, 2017. 2:00 PM - 4:00 PM Room B116**

Abstract Number	Time	Authors	Title
PE42C-1 (invited)	2:00 PM - 2:15 PM	Gioachino Roberti, Benjamin van Wyk de Vries, Brent Ward, Pierre Friele, John J. Clague, Luigi Perotti, Marco Giardino	From ice melting to multi-phase debris avalanche: the 2010 Mount Meager volcano collapse
PE42C-2	2:15 PM - 2:30 PM	Karen Strehlow, Joachim Gottsmann, Alison Rust	Hydrological responses to volcanic strain and the arising capabilities for volcano monitoring
PE42C-3	2:30 PM - 2:45 PM	Marina Rosas-Carbajal, Kevin Jourde, Jean Brémond d'Ars, Bruno Carlus, Dominique Gibert, Yves Le Gonidec, Jean-Christophe Ianigro, Jean-Christophe Komorowski	Three-Dimensional structure of the La Soufrière de Guadeloupe shallow hydrothermal system from muon tomography, gravity and electrical resistivity data
PE42C-4	2:45 PM - 3:00 PM	Sam Murphy, Dmitri Rouwet, Rob Wright	Color, chemistry and unrest at volcanic crater lakes

PE42C-5	3:00 PM - 3:15 PM	Johan Varekamp, Hilary Brumberg, Lena Capece, Paula Tartell	Carbon dioxide emissions from East Lake, Newberry Volcano, Oregon
PE42C-6	3:15 PM - 3:30 PM	Peter Kelly, Ugan Saing, Sofyan Primulyana, Suparjan, Bambang Heri Purwanto, Sulus Setiono, Hendra Gunawan, Aaron Rinehart, Allan Lerner, Christoph Kern, John Paskievitch	Continuous Multi-GAS monitoring yields new insights into gas emissions from Kawah Ijen volcano, Indonesia
PE42C-7 (invited)	3:30 PM - 3:45 PM	Bruce Christenson, Agnes Reyes, Ben Kennedy, Richard Henley, Aaron Farquhar	Processes leading to hydrothermal seal formation and failure in "wet" volcanic vents: Insights from some recent NZ phreatic eruption events
PE42C-8	3:45 PM - 4:00 PM	Stefanie Rott, Bettina Scheu, Klaus Mayer, Tim I. Yilmaz, H. Albert Gilg, Erouscilla P. Joseph, Cristian Montanaro, Donald B. Dingwell	Phreatic activity, hydrothermal alteration and related hazards at Boiling Lake and the Valley of Desolation, Dominica

VO42A: IV.3 The role of volatiles and degassing in magmatic and eruptive processes IV
Thursday August 17, 2017. 2:00 PM - 4:00 PM Room B114-115

Abstract Number	Time	Authors	Title
VO42A-1	2:00 PM - 2:15 PM	Alain Bernard, Edgardo Villacorte, Katharine Maussen, Raymond Maximo, Corentin Caudron, Ma. Antonia Bornas	Carbon dioxide in Taal volcanic lake: a simple gasometer open to the atmosphere
VO42A-2	2:15 PM - 2:30 PM	David Butterfield, Marvin Lilley, John Lupton, William Chadwick	Estimates of magmatic CO ₂ flux at Axial Seamount using magmatic and hydrothermal budgets
VO42A-3	2:30 PM - 2:45 PM	Meghan Jones, Samuel Soule, Mark Kurz, Dorsey Wanless, Harry Brodsky, Darin Schwartz, Veronique Le Roux, Frieder Klein, Eric Mittelstaedt, Joshua Curtice, Dan Fornari	Formation and distribution of popping rocks from the Mid-Atlantic Ridge near 14N
VO42A-4	2:45 PM - 3:00 PM	Samantha Isgett, Bruce Houhgtton, Alain Burgisser, Laurent Arbaret, Thomas Shea	Extreme complexity of a shallow conduit: the case study of the 1912 Vulcanian block apron at Novarupta, Alaska
VO42A-5	3:00 PM - 3:15 PM	Rebecca Paisley, Kim Berlo, Bassam Ghaleb, Hugh Tuffen	Isotope and trace element constraints on the role of tuffisite veins as degassing pathways during rhyolitic hybrid activity at Chaitén and Cordón Caulle, Chile
VO42A-6	3:15 PM - 3:30 PM	Cameron Webb, Hugh Tuffen, Jacqueline Owen, Jonathan Castro, Kim Berlo, C. Ian Schipper, Katia Wehbe	Mid-loaf crisis: internal breadcrust surfaces in rhyolitic bombs from Chaitén
VO42A-7	3:30 PM - 3:45 PM	James D. Ashworth, Jackie E. Kendrick, Anthony Lamur, Felix W. von Aulock, Paul A. Wallace, Rebecca Coats, Nick Varley, Yan Lavallée	The effect of strain on the formation and connectivity of bubbly magmas
VO42A-8	3:45 PM - 4:00 PM	Helge Gonnermann, Céline Fliedner, Thomas Giachetti	The effect of hysteretic permeability during open-system degassing of erupting magma

FT42A: VIII.2 Drones and robots in volcanology I
Thursday August 17, 2017. 2:00 PM - 4:00 PM Room B113

Abstract Number	Time	Authors	Title
FT42A-1	2:00 PM - 2:15 PM	David Pieri, Jorge Andres Diaz, Maria Fabrizia Buongiorno	Advances in the Application of Unmanned Aerial Technologies to In Situ Airborne Observations at Active Volcanoes
FT42A-2 (invited)	2:15 PM - 2:30 PM	Julian Rüdiger, J. Maarten de Moor, Lukas Hoffmann, Nicole Bobrowski, Alexandra Gutmann, Marcello Liotta, Marco Liuzzo, Jorge Andres Diaz, Alfred Alan, Ernesto Corrales, Fiona D'Arcy, John Stix, Thorsten Hoffmann	Comprehensive application of Unmanned Aerial Vehicles (UAV) for volcanic gas emission studies
FT42A-3	2:30 PM - 2:45 PM	Emma Liu, Thomas Richardson, Kieran Wood, Colin Greatwood, Ben Schellenberg, Helen Thomas, Matthew Watson, Alessandro Aiuppa, Gaetano Giudice, Marie Edmonds, Gustavo Chigna	In-plume measurements of volcanic emissions from Volcán de Fuego, Guatemala, using Unmanned Aerial Systems
FT42A-4	2:45 PM - 3:00 PM	Jonathan Glen, Calvin Chopra, Pattawong Pansodtee, Mircea Teodorescu, Christoph Kern, Peter Kelly, Laura Clor, Brent Ritzinger	High-precision spatial positioning of rotary wing UAS for volcanic gas measurements
FT42A-5	3:00 PM - 3:15 PM	Felix von Aulock, Yan Lavallée, Silvio De Angelis, Jackie Kendrick, Anthony Lamur, Andreas Rietbrock, Oliver Lamb, Adrian Hornby	Recording syn-eruptive morphological changes of Santiaguito volcano (Guatemala) with an unmanned aerial vehicle (UAV)
FT42A-6	3:15 PM - 3:30 PM	Kei Shirai, Hiroaki Shiraishi, Satoshi Tanaka, Hideki Murakami, Jun Oikawa, Yoshiaki Ishihara, Masahiko Hayakawa, Takahide Mizuno, Ken Goto, Masanobu Ozaki, Kazuhiko Yamada, Ryuhei Yamada	Development of penetrator probe for volcano monitoring deployed from unmanned aerial vehicle
FT42A-7	3:30 PM - 3:45 PM	Aaron Parness, Aaron Curtis	Rock and ice climbing robots for volcanology
FT42A-8	3:45 PM - 4:00 PM	Adam Soule, Dana Yoerger, Meghan Jones, Rebecca Carey, Mark Kurz, Dorsey Wanless	Autonomous Underwater Vehicles in Submarine Volcanic Studies

ME43A: II.3 Active lava lakes: A window into the deep? | Posters
Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
ME43A-001	4:00 PM - 6:00 PM	Sebastien Valade, Maurizio Ripepe, Dario Tedesco, Giovanni Giuffrida, Francesco Pandolfo, Gabriele Erba, Celestin Kasereka Mahinda, Katcho Karume	Mount Nyiragongo lava lake dynamics inferred from geophysical observations
ME43A-002	4:00 PM - 6:00 PM	Kenneth WW Sims	The "zero-age sample": Using lava lake samples from Mt Erebus, Antarctica and Nyiragongo, DR Congo to determine the time scales of magmatic processes in alkaline volcanic systems
ME43A-003	4:00 PM - 6:00 PM	Nicolas d'Oreye, Dominique Derauw, Halldor Geirsson, Benoît Smets, Sergey Samsonov, Julien Barrière, Adrien Oth, Nicolas Theys, Celestin Kassereka, Ludibvine Libert, Adriano Nobile, François Kervyn	Recent activity in Nyiragongo active crater, Democratic Republic of Congo – remote sensing and in-situ measurements
ME43A-004	4:00 PM - 6:00 PM	Nial Peters, Clive Oppenheimer, Paul Brennan	Novel Radar for Monitoring Lava Lake Level
ME43A-005	4:00 PM - 6:00 PM	Kirsten Stephens, Susanna Ebmeier, Nicola Young, Christelle Wauthier, Juliet Biggs	Uncovering the mysteries behind lava lake deformation source mechanisms: a case study of the ephemeral lava lake at Masaya volcano, Nicaragua
ME43A-006	4:00 PM - 6:00 PM	Yves Moussallam, Philipson Bani, Aaron Curtis, Talfan Barnie, Manuel Moussallam, Nial Peters, C. Ian Schipper, Alessandro Aiuppa, Gaetano Giudice, Alvaro Amigo, Gabriela Velasquez, Carlos Cardona	Sustaining persistent lava lakes: high-resolution gas measurements at Villarrica volcano, Chile
ME43A-007	4:00 PM - 6:00 PM	Donald Swanson, Matt Patrick, Tim Orr	Slowly pulsing magma supply inferred from changes in level of the lava lake in Overlook crater, Kilauea
ME43A-008	4:00 PM - 6:00 PM	Julia Woitischek, Marie Edmonds, Andrew W Woods, Clive Oppenheimer	Experimental insights into degassing of open-vent basaltic volcanoes

ME43B: II.4 Experimental volcanology: from magma generation to the transport and emplacement of pyroclastic materials I Posters

Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
ME43B-009	4:00 PM - 6:00 PM	Daniele Morgavi, Donald Swanson, Lucia Mancini, Marco Voltolini, Fabio Arzilli, Diego Perugini	3D Microtomography on accretionary lapilli from the 1790 CE Kilauea volcano eruption
ME43B-010	4:00 PM - 6:00 PM	Pier Paolo Comida, Pierre-Simon Ross, Bernd Zimanowski, Ralf Büttner	Artificial juvenile pyroclasts from wet and dry "eruptions": impact of magma composition on grain sizes and particle shapes
ME43B-011	4:00 PM - 6:00 PM	Richard Freeman, Chris Gregg, Matt Patrick, Tim Orr	Continuous Tracking of Lava Effusion Rates with Single Receiver Differential Very Low Frequency (VLF) Monitoring
ME43B-012	4:00 PM - 6:00 PM	Laura Spina, Daniele Morgavi, Antonio Costa, Bettina Scheu, Donald Dingwell, Diego Perugini	Degassing in Stratified Magmas: Experimental Investigation on the Effects of Physical Properties and Decompression Rate
ME43B-013	4:00 PM - 6:00 PM	Nick Deardorff, Cyrielle Humbert, Daniel Golus, Alexander Patch	Determining the effect of composition on timescales and extent of crystallization in recycled tephra through heating experiments
ME43B-014	4:00 PM - 6:00 PM	Sean O'Donnell, Benjamin Andrews, James E Gardner	Effects on air entrainment and lift-off through interaction of two pyroclastic density currents
ME43B-015	4:00 PM - 6:00 PM	Shizuka Otsuki, Nobuo Geshi, Satoshi Okumura, Michihiko Nakamura, Osamu Sasaki	Microstructural relaxation of andesitic magma foam
ME43B-016	4:00 PM - 6:00 PM	Kana Hashimoto, Ikuro Sumita	Model experiments of degassing process in a crystal-bearing magma
ME43B-017	4:00 PM - 6:00 PM	Mary Benage, Benjamin Andrews	Near-vent dynamics of volcanic jets: insights from analog experiments
ME43B-018	4:00 PM - 6:00 PM	Ezequiel Medici, Gregory Waite	Scaling analog shock tube experimental observations to model explosive volcanic eruptions
ME43B-019	4:00 PM - 6:00 PM	Jenny Schauthroth, Fabian Ben Wadsworth, Bettina Scheu, Jeremie Vasseur, Katherine J Dobson, Donald Bruce Dingwell, Yan Lavallee	Sealing off outgassing pathways: Fracture healing timescales resolved by sintering obsidian under surface tension
ME43B-020	4:00 PM - 6:00 PM	Amy Hughes, Jackie Kendrick, Yan Lavallee, Adrian Hornby, Giulio Di Toro	The role of porosity and glass content on the frictional properties of volcanic rocks
ME43B-021	4:00 PM - 6:00 PM	Nolwenn Le Gall, Fabio Arzilli, Biao Cai, Robert C. Atwood, Peter Rockett, Sara Nonni, Richard Brooker, Margherita Polacci, Mike Burton	Time-resolved synchrotron tomography of basaltic magmas: successes and challenges
ME43B-022	4:00 PM - 6:00 PM	Joshua Méndez Harper, Josef Dufek, Corrado Cimarelli	What volcanic lightning tells us about the near-vent dynamics
ME43B-023	4:00 PM - 6:00 PM	Masashi Ushioda, Isoji Miyagi, Toshihiro Suzuki, Eiichi Takahashi	Pre-eruptive P-T conditions and H ₂ O concentration of Aso-4 silicic magma based on high pressure experiments
ME43B-024	4:00 PM - 6:00 PM	Erika Rader, Jennifer Heldmann, Robert Wysocki	Comparison of natural, experimental, and numerical spatter clasts: Relating morphology to thermal history

ME43C: II.5 Using geochronology and quantitative petrology to understand the P-T-t-X evolution of magmatic systems leading up to volcanic eruptions II Posters

Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
ME43C-025	4:00 PM - 6:00 PM	Hisatoshi Ito	Entire magmatic history of the Kikai Caldera as revealed by zircon U-Pb method

ME43C-026	4:00 PM - 6:00 PM	Gregor Weber, Luca Caricchi, José Luis Arce	Temporal evolution and pre-eruptive processes at Nevado de Toluca volcano, Mexico
ME43C-027	4:00 PM - 6:00 PM	Martin Danišik, Shan de Silva, Adonara Mucek, Axel Schmitt, Indyo Pratomo	Eruptive history of the Toba Volcanic Complex (Indonesia) revisited: new constraints from (U-Th)/He ages and comparison to Ar/Ar and fission track dating results
ME43C-028	4:00 PM - 6:00 PM	Andrew Calvert, Judy Fierstein, Wes Hildreth	Middle and South Sister volcanoes—products of an unusual 35 kyr eruptive episode
ME43C-029	4:00 PM - 6:00 PM	Brian P. Hausback, Drew T. Downs, Andrew T. Calvert	Improved ⁴⁰ Ar/ ³⁹ Ar Dating Analyses of Intermediate Intrusions and Domes from the Sutter Buttes Volcano, California
ME43C-030	4:00 PM - 6:00 PM	Aurelie Germa, Christopher Perry, Xavier Quidelleur, Andrew Calvert, Michael A. Clynne, Charles Connor, Laura Connor, Rocco Malservisi	New geochronological constraints of the Lassen segment's regional volcanism
ME43C-031	4:00 PM - 6:00 PM	Ya-Min Yang, Sheng-Rong Song, Kenneth Rubin	U-Th-Ra Isotope Dating to Constrain the Youngest Eruption of Tatun Volcanic Group
ME43C-032	4:00 PM - 6:00 PM	Rosa Didonna, Fidel Costa, Heather Katherine Handley, Simon Turner, Jenni Barclay	A new view of mafic-silicic magma interactions at Soufrière Hills Volcano, Montserrat
ME43C-033	4:00 PM - 6:00 PM	Dawn Sweeney Ruth, Fidel Costa	Unraveling processes and time scales recorded by multiply zoned plagioclase crystals
ME43C-034	4:00 PM - 6:00 PM	Charline Lormand, Georg Zellmer, Naoya Sakamoto, Karoly Németh, Alan Palmer, Hisayoshi Yurimoto	Pre- and syn-eruptive processes visualized through semi-automatic Crystal Size Distribution analysis of microlites from Tongariro Volcanic Centre tephra, New Zealand
ME43C-035	4:00 PM - 6:00 PM	Euan Mutch, John MacLennan, Marie Edmonds	Timing magma migration through the Icelandic Crust: from the Moho to the surface
ME43C-036	4:00 PM - 6:00 PM	Patricia Larrea, HELENA ALBERT, FIDEL COSTA, ELISABETH WIDOM, CLAUS SIEBE	Magmatic processes of Paricutin volcano: rapid fractionation with no crustal assimilation?
ME43C-037	4:00 PM - 6:00 PM	May Sas, Noriyuki Kawasaki, Phil Shane, Naoya Sakamoto, Hisayoshi Yurimoto, Georg Zellmer	Developing high resolution analysis of ⁸⁷ Sr/ ⁸⁶ Sr in plagioclase using SIMS, and application to deposits from Okataina volcano, New Zealand
ME43C-038	4:00 PM - 6:00 PM	Alisha Coote, Phil Shane, Claudine Stirling, Malcolm Reid, Michael Palin	Origin of plagioclase phenocrysts and crystal cargos in small volume intraplate basalt magmas: Kaikohe-Bay of Islands Volcanic Field, New Zealand
ME43C-039	4:00 PM - 6:00 PM	Sri Budhi Utami, Fidel Costa, Christina Widiwijayanti, Hanik Humaida	Petrologic data and timescales of magmatic processes leading up to the 1990 Kelud eruptions and its relation to volcanic unrest
ME43C-040	4:00 PM - 6:00 PM	Rodrigo Iriarte, Shanaka de Silva, Néstor Jiménez, Axel Schmitt	The Cerro Guacha Caldera Complex: A long-lived, multicyclic resurgent caldera complex in the Altiplano-Puna Volcanic Complex of the Central Andes
ME43C-041	4:00 PM - 6:00 PM	Maren Kahl, Þorvaldur Þórðarson, Enikő Bali, Guðmundur Heiðar Guðfinnsson	Constraining P-T-X-t paths for magma and volatile evolution within distinct volcano-tectonic environments in Iceland
ME43C-042	4:00 PM - 6:00 PM	Natalia Gorbach, Maxim Portnyagin, Tatiana Filosofova	Amphibole record of the ongoing dome-forming eruption of Young Shiveluch volcano (Kamchatka)
ME43C-043	4:00 PM - 6:00 PM	Vesta Davydova, Vasily Shcherbakov, Pavel Plechov	Magma storage and mingling conditions for the 2006–2010 eruptions of Bezymianny Volcano (Kamchatka): insights from mafic enclaves
ME43C-044	4:00 PM - 6:00 PM	Karalee Brugman, Christy Till	Investigation of the Applicability of Clinopyroxene Geothermometers to Silicic Igneous Systems
ME43C-045	4:00 PM - 6:00 PM	Sarah Brehm, Rebecca Lange	Temperature at the onset of phenocryst growth in basalts from the Big Pine Volcanic Field, CA: application of an olivine-melt thermometer based on DNi
ME43C-046	4:00 PM - 6:00 PM	Rebecca Lange, Jameson Jolles	The origin of two distinct geochemical gradients with temperature in the Bishop Tuff: resolution of unanswered questions
ME43C-047	4:00 PM - 6:00 PM	Camila Pineda, Julia Hammer, Diego Morata	Storage conditions of Pudahuel rhyolitic ignimbrite in central Chile
ME43C-048	4:00 PM - 6:00 PM	Diane Smith, William Leeman	Basaltic lavas of Mount St. Helens: evidence for diverse mantle sources and mixing with evolved magmas at shallow depth

ME43D: II.8 Investigating conduit processes and eruption dynamics by integrating experiments, numerical modelling, observations, and sample analysis III Posters

Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
ME43D-049	4:00 PM - 6:00 PM	Giuseppe La Spina, Amanda Clarke, Mattia de' Michieli Vitturi, Chelsea M. Allison, Kurt Roggensack, Fabrizio Alfano, Mike Burton	1085 AD sub-Plinian eruptions at Sunset Crater: a numerical study through a 1D transient conduit model of magma ascent
ME43D-050	4:00 PM - 6:00 PM	Owen Nelson, Tushar Mittal, Brent Delbridge, Noah Randolph-Flagg, Michael Manga	3D flow inside dikes using analog experiments and its control on conduit formation
ME43D-051	4:00 PM - 6:00 PM	Madison Myers, Paul Wallace, Colin Wilson, James Watkins, Yang Liu	Ascent rates of rhyolitic magma in the opening stages of three caldera-forming eruptions
ME43D-052	4:00 PM - 6:00 PM	Yo Kanno, Mie Ichihara	Chamber-pipe flow experiment as a mathematical analogue for flow-induced volcanic oscillation systems
ME43D-053	4:00 PM - 6:00 PM	Ben Mullet, Paul Segall	Conduit Collapse in Explosive Volcanic Eruptions: A Simple Model to Explain Cessation
ME43D-054	4:00 PM - 6:00 PM	Takehiro Koyaguchi, Kyle Anderson, Tomofumi Kozono	Determination of conduit-flow model parameters based on inverse analysis of ground deformation and mass eruption rate data: the effects of mathematical structure of the conduit flow model
ME43D-055	4:00 PM - 6:00 PM	Brett Carr, Amanda Clarke, Mattia de' Michieli Vitturi	Earthquake induced variations in extrusion rate: a numerical modeling approach to the 2006 eruption of Merapi Volcano (Indonesia)
ME43D-056	4:00 PM - 6:00 PM	Joali Paredes, Bettina Scheu, Cristian Montanaro, Alejandra Arciniega, Donald B. Dingwell, Diego Perugini	Effects of particles size, componentry and conduit geometry on fragmentation processes
ME43D-057	4:00 PM - 6:00 PM	Alejandra Arciniega-Ceballos, Francisco Sanchez-Sesma, Laura Spina, Ursula Iturraran-Viveros, Bettina Scheu, Donald Dingwell	Elasto-Acoustic Signatures within Viscous Flows
ME43D-058	4:00 PM - 6:00 PM	Marc Bernstein, Eliza Calder	Empirical Method for Determining the Solar Heating Correction for Handheld Thermal Imagery: An Example from Soufrière Hills, Montserrat

ME43D-059	4:00 PM - 6:00 PM	Anthony Lamur, Jackie Kendrick, Gudjon Eggertsson, Fabian Wadsworth, James Ashworth, Richard Wall, Felix Von Aulock, Yan Lavallée	Fracture, heal, repeat: timescales and implications for silicic systems eruptive behavior
ME43D-060	4:00 PM - 6:00 PM	Jenny Riker, Katharine Cashman	Interpreting crystal size distributions in complex magmatic systems: a case for compositional CSDs
ME43D-061	4:00 PM - 6:00 PM	Nicole Thomas, Tobias Fischer, Adrian Brearley	Magma Injection Triggers Earthquake Swarm and Eruption: Mineralogical Indications of Magma Mixing, 2007-8 Eruption at Oldoinyo Lengai, Tanzania, Africa
ME43D-062	4:00 PM - 6:00 PM	Gilles Seropian, John Stix	Monitoring and forecasting fault development at actively forming calderas: an experimental study
ME43D-063	4:00 PM - 6:00 PM	C Ian Schipper, Jonathan M Castro, Ben Kennedy, Jack Whattam, Hugh Tuffen	Multiple obsidians, multiple fates: Textural variability in co-erupted effusive and explosive products at Cordón Caulle (2011-12, Chile)
ME43D-064	4:00 PM - 6:00 PM	Claudio Contreras, Alison Rust, Katharine Cashman	Quantification of bubble heterogeneities in pumice: Application to Los Espejos Pumice Fall, Laguna del Maule Volcanic Complex
ME43D-065	4:00 PM - 6:00 PM	Robert Goldman, Darren Gravley, Eric Grosfils, Patricia Gregg	Reconstructing the paleo-stress field of New Zealand's Akaroa Volcano: Insights from field, petrographic, seismic and numerical methods
ME43D-066	4:00 PM - 6:00 PM	Chao Liang, Eric Dunham, Leif Karlstrom	Resonant waves in a coupled conduit-crack system: Application to very long period (VLP) seismicity at Kilauea volcano
ME43D-067	4:00 PM - 6:00 PM	Masatoshi Ohashi, Mie Ichihara, Shiori Takeda, Osamu Kuwano, Atsushi Toramaru	Shape evolution of bubble during solidification -exploring the history of tube pumice-
ME43D-068	4:00 PM - 6:00 PM	Jackie Kendrick, Yan Lavallée, Paul Wallace, Rebecca Coats, James Ashworth, Adrian Hornby, Amy Hughes, Oliver Lamb, Felix von Aulock, Sarah Henton De Angelis, Silvio De Angelis	Shear zone development during the ascent of highly viscous magma
ME43D-069	4:00 PM - 6:00 PM	Ulrich Kueppers, Valeria Cigala, Julia Holzmueller, Juan Jose Pena Fernandez	Size matters, shape too: The significance of pyroclast characteristics
ME43D-071	4:00 PM - 6:00 PM	Jacopo Taddeucci, Miguel Angel Alatorre Iburguengoitia, Omar Vásquez, Elisabetta Del Bello, Piergiorgio Scarlato, Tullio Ricci	The in-flight dynamics of Volcanic Ballistic Projectiles: An high-speed imaging perspective
ME43D-072	4:00 PM - 6:00 PM	Elliot Swallow, Colin Wilson, Madison Myers, Paul Wallace, Katie Collins, Euan Smith	The onset of caldera-collapse in a supereruption captured in glass and mineral chemistries
ME43D-073	4:00 PM - 6:00 PM	Alain Burgisser, Laure Chevalier, Marielle Collombet	Upgrading conduit flow models with coalescence, percolation, and permeability laws

PE43A: III.1 Forecasting volcanic eruptions III Posters**Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A**

Abstract Number	Time	Authors	Title
PE43A-074	4:00 PM - 6:00 PM	Dulce Vargas-Bracamontes, Mauricio Mora, Alejandro Nava, Gabriel Reyes-Dávila, Raúl Arámbula, Carlos Navarro, Alejandro Martínez, Miguel González	Detection of significant changes in the 2015-2017 seismicity of Volcán de Colima, Mexico
PE43A-075	4:00 PM - 6:00 PM	Cristian Mauricio López Vélez, Lina Marcela Castaño, Lina Constanza Garcia Cano, Beatriz Elena Galvis Arenas, Oscar Sanabria, Alvaro Pablo Acevedo, Milton Ivan Ordoñez Villota, Carlos Andres Laverde, Zoraida Chacon, Claudia Patricia Durán, Gloria Patricia Cortes Jimenez, Stephanie Prejean	SEISMIC ACTIVITY OF THE NEVADO DEL RUIZ VOLCANO DURING THE DOME EXTRUSION PROCESS (2015 - 2017)
PE43A-076	4:00 PM - 6:00 PM	Virginia Tenorio, Wendy McCausland, Randall White	Seismic precursors to the 2015-2016 eruption of Momotombo volcano, Nicaragua
PE43A-077	4:00 PM - 6:00 PM	Thomas Lecocq, Valérie Ferrazzini, Patrice Boissier	Short term real time relative velocity variations prior to the Piton de la Fournaise eruptions since June 2014
PE43A-078	4:00 PM - 6:00 PM	Haruhisa Nakamichi, Masato Iguchi, Takeshi Tameguri	Hypocenter distribution of an earthquake swarm associated with rapid magma intrusion into the Sakurajima Volcano on August 2015 using seismic amplitudes
PE43A-079	4:00 PM - 6:00 PM	Hideki Ueda, Masashi Nagai, Toshikazu Tanada	Research for eruption forecast of volcanic eruption in Iwojima volcano, Japan
PE43A-080	4:00 PM - 6:00 PM	Matthew R Von Lintig, Jeffrey Bruce Johnson, Alex J C Miller	Quiescence at Sakurajima quantified through infrasound detection: the relationship between sealed vents and explosions
PE43A-081	4:00 PM - 6:00 PM	Jay Wellik, Sarah Ogburn, Jeremy Pesicek, Stephanie Prejean, Weston Thelen	Analyzing the temporal relationship between changes in seismic rate, seismic energy release, and eruptive behavior at U.S. volcanoes
PE43A-082	4:00 PM - 6:00 PM	Raphael De Plaen, Corentin Caudron, Thomas Lecocq, Andrea Cannata, Valérie Ferrazzini, Flavio Cannavo	Single-station monitoring of volcanoes using seismic ambient noise: Application to different types of volcanoes
PE43A-083	4:00 PM - 6:00 PM	Guillermo Cortés, Philippe Lesage, Roberto Carniel, Carmen Benítez, Javier Almendros, Raúl Arámbula-Mendoza	Unsupervised volcano-seismic event recognition as a tool for real-time monitoring and eruption forecasting: the VULCAN.ears project
PE43A-084	4:00 PM - 6:00 PM	Justin Parra, Olac Fuentes, Vladik Kreinovich, Elizabeth Anthony, Vanessa Espejel-Garcia, Octavio Hinojosa de la Garza	Eruption Forecasting from Seismic Activity using Neural Networks
PE43A-085	4:00 PM - 6:00 PM	Flavio Cannavo, Andrea Cannata, Carmelo Cassisi, Placido Montalto, Danila Scandura	Towards an Automatic Volcano Instrumental Early Warning System (a-VIEWS) for Mt. Etna
PE43A-086	4:00 PM - 6:00 PM	Yan Zhan, Patricia M. Gregg, Estelle Chaussard, Yosuke Aoki	Investigation of volcanic unrest in Indonesia using statistical data assimilation with a two-source magma chamber model

PE43A-087	4:00 PM - 6:00 PM	Erickson Fajiculay, Nang Thin Zar Win, Christina Widiwijayanti, Fidel Costa, Christopher Newhall, Antonius Ratdomopurbo	Improving WOVODat Online Tools For Eruption Forecasts
PE43A-088	4:00 PM - 6:00 PM	Susanna Jenkins, Harvey Goldstein, Steve Sparks, Takehiro Koyaguchi	Forecasting explosion repose intervals with a Bayesian survival model: Application to Sakura-jima volcano, Japan
PE43A-089	4:00 PM - 6:00 PM	Kevin G. Pedroza-Aldana, Julie Roberge, Teresa Pi-Puig, José A. Andraca-Adame, Nick Varley, Fernanda Flores-Rios	Petrological monitoring during volcanic eruption using X-Ray diffraction to identify the different ash components (glass vs crystals)
PE43A-090	4:00 PM - 6:00 PM	Kyriaki Drymoni, Alison Rust, Katharine Cashman, John Browning, Agust Gudmundsson	Dyke propagation through heterogeneous successions
PE43A-091	4:00 PM - 6:00 PM	Jeremie Vasseur, Fabian Wadsworth, Michael Heap, Ian Main, Yan Lavallée, Donald Dingwell	Forecasting the brittle failure of heterogeneous magma
PE43A-092	4:00 PM - 6:00 PM	Elske de Zeeuw-van Dalfsen, Reinoud Sleeman, Láslo Evers	Combining monitoring techniques at the volcanoes of Saba and St. Eustatius, the Caribbean Netherlands
PE43A-093	4:00 PM - 6:00 PM	Roberto Torres, Diego Gomez	Characterization of volcanic activity at Galeras Volcano, Colombia
PE43A-094	4:00 PM - 6:00 PM	sofyan primulyana	Gas and ash emissions associated with the 2010-present activity of Sinabung Volcano, Indonesia
PE43A-095	4:00 PM - 6:00 PM	Angelo Battaglia, J. Maarten De Moor, Alessandro Aiuppa, Geffroy Avarad, Marcello Bitetto, Gaetano Giudice, Hindeleh Henriette Bakkar, Hairo VILLALOBOS VILLALOBOS	First Multi-Gas time series of Rincon de la Vieja volcano, Costa Rica

PE43B: III.3 Multidisciplinary constraints on volcanic eruption triggers I Posters

Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
PE43B-096	4:00 PM - 6:00 PM	Toshiaki Hasenaka, Kosuke Shiihara, Yasushi Mori, Natsumi Hokanishi, Atsushi Yasuda	Petrological constraints on the precursory event of Aso-4 caldera-forming eruption
PE43B-097	4:00 PM - 6:00 PM	Hannah Shamloo, Christy Till	Petrologic Insights into the Timing and Triggering Mechanism of the Lava Creek Tuff Supereruption, Yellowstone Caldera, WY, USA
PE43B-098	4:00 PM - 6:00 PM	Daniel Rasmussen, Terry Plank, Diana Roman, Pavel Izbekov	MULTIDISCIPLINARY INSIGHT INTO PETROLOGIC INDICATORS OF ERUPTION RUN-UP
PE43B-099	4:00 PM - 6:00 PM	Samantha Tramontano, Marc-Antoine Longpré, Eveling Espinoza, Armando Saballos	The timing and longevity of a mafic magma recharge event prior to the 2015-2016 eruption at Momotombo volcano, Nicaragua
PE43B-100	4:00 PM - 6:00 PM	Teresa Ubide, Balz S. Kamber	Clinopyroxene trace element zoning records eruption triggers at Mount Etna, Sicily
PE43B-101	4:00 PM - 6:00 PM	Yuki Suzuki	Magma plumbing system of Fuji volcano inferred from product of latest summit eruption (Yufune-2 scoria)
PE43B-102	4:00 PM - 6:00 PM	Lucia Pappalardo, Gianmarco Buono, Paola Petrosino	X-ray microtomographic investigation to explore trigger mechanisms of plinian eruptions: a Somma-Vesuvius volcano case study
PE43B-103	4:00 PM - 6:00 PM	D. Sarah Stamps, Elifuraha Saria, J. Robert Jones, Kang-Hyeun Ji, Mike Daniels, Dave Mencin, Daud Ntambila	Potential volcanic deformation signals at Ol Doinyo Lengai in 2017: detection and response
PE43B-104	4:00 PM - 6:00 PM	Dulcinea Avouris, Simon Carn, Gregory Waite	Triggering of volcanic degassing by large earthquakes
PE43B-105	4:00 PM - 6:00 PM	Theresa Sawi, Michael Manga	Revisiting Earthquake-Triggered Volcanic Eruptions

PE43C: III.4 Wet volcanoes: aquifers and lakes and their related hazards II Posters

Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
PE43C-106	4:00 PM - 6:00 PM	Emily S. Anderson, Curtis M. Oldenburg, Michael H. Ort	An investigation of the role of thermal conditions, hydrologic processes, and country rock permeability in phreatomagmatic maar eruptions
PE43C-107	4:00 PM - 6:00 PM	Fabien Albino, Falk Amelung	Can rainfall trigger volcanic eruptions? The example of Cerro Azul volcano
PE43C-108	4:00 PM - 6:00 PM	Shohei Narita, Makoto Murakami	Ongoing post-eruptive deformation of 2014 phreatic eruption of Ontake volcano, central Japan
PE43C-109	4:00 PM - 6:00 PM	Jacques Marteau, Marina Rosas-Carbajal, Kevin Jourde, Jean de Bremond d'Ars, Bruno Carlus, Dominique Gibert, Yves Le Gonidec, Jean-Christophe Ianigro	Monitoring the La Soufrière de Guadeloupe hydrothermal system with a regularly-spaced muon telescope network
PE43C-110	4:00 PM - 6:00 PM	Deborah Robertson, Erouscilla Joseph, Nicolas Fournier	From above or below? What triggered the 2016 Boiling Lake instabilities in Dominica?
PE43C-111	4:00 PM - 6:00 PM	Ellen Thomas, Paula Tartell, Hilary Brumberg, Robert Reynolds, Gregory Mulder, Johan Varekamp	The twin crater lakes of Newberry Volcano, OR: analogs of ancient environments?
PE43C-112	4:00 PM - 6:00 PM	Agnes Mazot, Bruce Christenson, Tony Hurst	Using a Tunable Diode Laser method for a better understanding of CO ₂ degassing from New Zealand volcanic lakes
PE43C-113	4:00 PM - 6:00 PM	Ellen Alexander, Johan Varekamp, Alejandro Rodriguez	The chemical heartbeat of a volcanic hydrothermal system at Copahue volcano, Argentina
PE43C-114	4:00 PM - 6:00 PM	Tsukasa Ohba, Takumi Imura, Yusuke Minami, Keita Itou, Kenta Horikoshi	Interaction between volcanic fluid and magma inferred from altered volcanic ash particles: examples from arc composite cones in Japan

PE43C-115	4:00 PM - 6:00 PM	Nicola Young, Joachim Gottsmann	Inversion of Bouguer data at Campi Flegrei: Imaging the Hydrothermal Plume
PE43C-116	4:00 PM - 6:00 PM	Kaori Seki, Takeshi Ohba, Shinnosuke Aoyama, Yuichiro Ueno, Hirochika Sumino, Wataru Kanda, Muga Yaguchi, Toshiya Tanbo	The isotopic values and chemical compositions from the the hydrothermal system beneath the Jigokudani Valley, Tateyama Volcano, Japan

PE43D: III.9 Understanding pyroclastic density currents through analysis of their deposits I Posters
Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
PE43D-117	4:00 PM - 6:00 PM	Fabio Dioguardi, Pierfrancesco Dellino, Daniela Mele	A new model for quantifying the flow and depositional characteristics of dilute pyroclastic density currents based on deposit data
PE43D-118	4:00 PM - 6:00 PM	Dominique Richard, Kai-Uwe Hess, Fabian Wadsworth, Benoît Cordonnier, Joan Marti, Donald Dingwell	A pyroclastic deposit with unusual devitrification features within the Guajara Formation along the Las Cañadas caldera, Tenerife, Canary Islands
PE43D-120	4:00 PM - 6:00 PM	Matteo Trolese, Matteo Cerminara, Tomaso Esposti Ongaro, Guido Giordano	Controls of column collapse regime on initial temperature of pyroclastic density currents
PE43D-121	4:00 PM - 6:00 PM	Marco Pistoiesi, Federico Di Traglia, Mauro Rosi, Costanza Bonadonna	Dynamics of blast eruptions: insights from the deposits of the 13th century AD Breccia di Commenda phreatic explosion (Island of Vulcano, Italy)
PE43D-122	4:00 PM - 6:00 PM	Takeshi Hasegawa, Hiroki Hasegawa, Tetsuo Kobayashi, Darren Gravley	Emplacement of highly mobile and 'cool' block-rich PDCs from the Mashu caldera-forming eruption, eastern Hokkaido, Japan
PE43D-124	4:00 PM - 6:00 PM	David Buesch, Olivier Roche, Greg Valentine	Locally derived clasts, topography, and clasts high in stratigraphic sections of the ~18.8 Ma Peach Spring Tuff, southwestern USA
PE43D-125	4:00 PM - 6:00 PM	Gueugneau Valentin, Kelfoun Karim, Druitt Tim	Numerical modelling of the surge-derived pyroclastic flow of 25 June 1997 at Soufriere Hills Volcano, Montserrat
PE43D-126	4:00 PM - 6:00 PM	Elham Yousefzadeh, Adrian Pittari, David J. Lowe, Beth R.S. Fox	Physical characteristics of the matrix of the 1.2 Ma Ongatiti Ignimbrite: implications for fine-scale eruption and emplacement processes in voluminous pyroclastic flows
PE43D-127	4:00 PM - 6:00 PM	Daniele Andronico, Boris Behncke, Antonella Bertagnini, Emanuela De Beni, Paola Del Carlo, Alessio Di Roberto, Massimo Pompilio	Pyroclastic density currents at Mt. Etna: the 11 February 2014 case study
PE43D-128	4:00 PM - 6:00 PM	Gregory Smith, Rebecca Williams, Peter Rowley, Daniel Parsons	Pyroclastic Density Currents: The Influence of Variable Fluidisation
PE43D-129	4:00 PM - 6:00 PM	Ermanno Brosch, Gert Lube, Eric Breard, Kevin Kreutz, Jim Jones, Tomaso Esposti Ongaro	Synthesizing hot pyroclastic surges to link flow dynamics and deposit characteristics
PE43D-130	4:00 PM - 6:00 PM	Robert Gooday, Andrew Kerr, David Brown, Kathryn Goodenough	The Central Arran Igneous Complex: structure and evolution of a Scottish Palaeogene caldera system
PE43D-131	4:00 PM - 6:00 PM	Brittany Brand, Nicholas Pollock, Andrew Gase, Damiano Sarocchi, Olivier Roche	The erosive nature of pyroclastic density currents – A summary of findings from the 18 May 1980 Mt St Helens (USA) deposits
PE43D-132	4:00 PM - 6:00 PM	Michael H. Ort, Guido Giordano, Elena Zanella, Roberto Isaia, Kayla Iacovino	The Role of Atmospheric Incorporation in Dilute Pyroclastic Density Currents

VO43A: IV.4 Volcanic plumes and clouds: from injection to dispersion I Posters
Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
VO43A-133	4:00 PM - 6:00 PM	Ben Black, Michael Manga, Benjamin Andrews	Ash production and dispersal from sustained low-intensity eruptions: An example from Mono-Inyo craters
VO43A-134	4:00 PM - 6:00 PM	Yujiro Suzuki, Masato Iguchi	Determination of the mass eruption rate for the 2014 Mount Kelud eruption using three-dimensional numerical simulations of volcanic plumes
VO43A-135	4:00 PM - 6:00 PM	Taylor Woods, Kimberly Genareau, Shelby Cloer	Effects of Grain Size and Shape on Volcanic Ash Electrical Conductivity
VO43A-136	4:00 PM - 6:00 PM	Thomas Aubry, A. Mark Jellinek	Evaluation of entrainment and condensation parameterizations in integral models of volcanic plumes using a new database of eruptive parameters
VO43A-137	4:00 PM - 6:00 PM	Franziska Keller, Sebastian Mueller, Christoph Helo, Jonathan Castro	Experimental evidence for geochemical and morphological alteration of ash particles by volcanic lightning
VO43A-138	4:00 PM - 6:00 PM	James McNeal, Graham Freedland, Larry Mastin, Raul Cal, Stephen Solovitz	Experimental insights into the role of turbulence in the entrainment and height of weak volcanic plumes
VO43A-139	4:00 PM - 6:00 PM	Franck Donnadiu, Valentin Freret-Lorgeril, Mauro Coltelli, Simona Scollo, Mathieu Gouhier, Patrick Freville, Claude Hervier, Michele Prestifilippo	Lava fountaining paroxysms generating tephra plumes at Mt. Etna: Remote sensing retrievals
VO43A-141	4:00 PM - 6:00 PM	Valentin Freret-Lorgeril, Franck Donnadiu, Julia Eychenne, Thierry Latchimy	Physical characterization of ash at Stromboli volcano: Implications on terminal settling velocity
VO43A-142	4:00 PM - 6:00 PM	Valentin Freret-Lorgeril, Franck Donnadiu, Julien Delanoë, Thierry Latchimy, Jean-Paul Vinson, Christophe Caudoux, Frédéric Peyrin, Claude Hervier, Sébastien Valade	Sedimentation waves from weak ash plumes recorded by optical disdrometer and millimeter-wave radar at Stromboli, Italy
VO43A-143	4:00 PM - 6:00 PM	Sebastian P. Mueller, Christoph Helo, Franziska Keller, Jacopo Taddeucci, Jonathan Castro	The Atmosphere Strikes Back: Rapid Remelting of Ash by Volcanic Lightning in the Laboratory
VO43A-144	4:00 PM - 6:00 PM	Dayana Andrea Schonwalder Angel, Fidel Costa Rodriguez, Rusell Blong	The atmospheric SO ₂ budget emitted by the 'Tibito Tephra' eruption (middle 17th Century). Long Island volcano, Papua New Guinea
VO43A-145	4:00 PM - 6:00 PM	Roger Denlinger, Alexa van Eaton, Þórður Arason	The significance of segregation and clustering of ash particles for ash aggregation in volcanic plumes and clouds

VO43A-146	4:00 PM - 6:00 PM	Cassandra Smith, Stephen McNutt, Sonja Behnke, Alexa Van Eaton, Ronald Thomas, Harald Edens	Volcanic lightning as an indicator of ash parameters: A case study of Sakurajima Volcano, Japan, May-June 2015
VO43A-147	4:00 PM - 6:00 PM	Larry Mastin	When do umbrella clouds matter? The effect of radial expansion on the distribution of ash clouds and tephra deposits

VH43A: V.1 Lava flow dynamics and hazard assessment I Posters			
Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A			
Abstract Number	Time	Authors	Title
VH43A-148	4:00 PM - 6:00 PM	R. Greg Vaughan, Laszlo Keszthelyi, Ashley Davies	A calibrated, high-speed, multispectral VNIR camera for remotely retrieving lava eruption temperature at Kilauea
VH43A-149	4:00 PM - 6:00 PM	Rachel Lee, James Thompson, Michael Ramsey, Penelope King	Does the Emissivity of Basaltic Lava Surfaces Change with Temperature and Why Do We Care?
VH43A-150	4:00 PM - 6:00 PM	Andrew Harris, Stefano Mannini, Simon Thivet, Lucia Gurioli, Nicolas Villeneuve	Unexpected rheological regime measured down an active lava channel
VH43A-151	4:00 PM - 6:00 PM	Alan Whittington, Arianna Soldati, Jordon Beem, Tim Robertson, Francisco Gomez	Reconstructing a Monogenetic Eruption: Rheology and Morphology of a ~7ka Flow from the Cima Volcanic Field (CA)
VH43A-152	4:00 PM - 6:00 PM	Eva P. S. Eibl, Christopher J. Bean, Ingibjörg Jónsdóttir, Ármann Höskuldsson, Thorvaldur Thórdarson, Diego Coppola, Tanja Witt, Thomas R. Walter	Multiple Eruptive Seismic Tremor Sources During an Effusive Eruption: Implications for Monitoring of Lava Flows
VH43A-153	4:00 PM - 6:00 PM	Elise Rumpf, Einat Lev	Experimental Investigation of the Influence of Small-Scale Topography on Lava Flow Advance
VH43A-154	4:00 PM - 6:00 PM	Christopher W. Hamilton, Stephen P. Scheidt, Andrew P. Keske, Alexandra E. Huff, William H. Speiser, Debra H. Needham, Ethan I. Schaefer, Sarah S. Sutton, Jeffrey E. Moersch, Corbin L. Kling, Erika Rader, Andrew J. Ryan, Amber L. Keske, Danielle K. Moyer, John W. Taggart, Colin M. Dundas, Christian Klimczak, David A. Williams	Sinuuous Channel Formation within the Laki Lava Flow: A Consequence of "Fill and Spill" Emplacement
VH43A-155	4:00 PM - 6:00 PM	Steven Rizo, Aurelie Germa, Sylvain Charbonnier, Charles Connor	How to improve volume calculation of lava flows to enhance eruption rate estimates and hazard assessment
VH43A-156	4:00 PM - 6:00 PM	Thor Thordarson, Ármann Höskuldsson, Ingibjörg Jónsdóttir and the FES and IES Volcano and Hazard Group	The magma discharge and the volume of lava erupted during the 2014-15 eruption on Dyngjúsandur, North Iceland as determined by geometric measurements
VH43A-157	4:00 PM - 6:00 PM	Virginie Pinel, Alexandre Carrara, Servando De la Cruz-Reyna	Remote sensing analysis of the 2014-2015 major lava flows at Colima volcano, Mexico, using Sentinel-1 SAR data and Pleiades DEM
VH43A-158	4:00 PM - 6:00 PM	J. Belart, Gro Pedersen, F. Kizel, E. Magnusson, O. Vilmundardóttir, N. Falco, F. Sigurmundsson, G. Gísladóttir, S. Tarquini, M. Vitturi, J. Benediktsson	The evolution of Hekla volcano in the 20th century: Integrating remote sensing data from the past 70 years
VH43A-159	4:00 PM - 6:00 PM	Oryaëlle Chevreil, Jérémie Labriquère, Andrew Harris, Scott Rowland	PyFLOWGO: an open-source platform for simulation of channelized lava thermo-rheological properties
VH43A-160	4:00 PM - 6:00 PM	Elisabeth Gallant, Charles Connor, Laura Connor, Jacob Richardson, Paul Wetmore	Probabilistic lava flow hazard assessment for the Idaho National Laboratory

VH43B: V.4 Just add water: hazards variation in lava flows, steam-driven and hydromagmatic explosive eruptions I Posters			
Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A			
Abstract Number	Time	Authors	Title
VH43B-161	4:00 PM - 6:00 PM	Alison Graettinger, Greg Valentine	A new approach to phreatomagmatic explosion depth estimation from tephra rings
VH43B-162	4:00 PM - 6:00 PM	Erin Fitch, Sarah Fagents	Ash Formation Mechanisms Associated with Lava-Water Explosions: Implications for Estimating Explosion Energy
VH43B-163	4:00 PM - 6:00 PM	Reina Nakaoka, Kazuhiko Kano, Keiko Suzuki-Kamata	Cone-building process in the A.D. 886 eruption on the Nijima Island, Japan
VH43B-164	4:00 PM - 6:00 PM	Andrea Verolino, James White, Bernd Zimanowski	EXPERIMENTAL SUBAQUEOUS SURTSEYAN ERUPTIONS
VH43B-165	4:00 PM - 6:00 PM	Ingo Sonder, Andrew G. Harp, Alison H. Graettinger, Gregory A. Valentine, Pranabendu Moitra, Ralf Büttner, Bernd Zimanowski	Explosive Magma-Water Interaction Experiments: Premix Conditions on Decimeter Scale
VH43B-166	4:00 PM - 6:00 PM	Rina Noguchi, Kei Kurita	Geomorphometrical analyses for rootless cones — as natural analogue for dry-wet eruption scaling—
VH43B-167	4:00 PM - 6:00 PM	Keith Howard, Tom Simkin, John R. Filson	Hydromagmatic Eruption Related to the 1968 Collapse of Fernandina Caldera, Galápagos
VH43B-168	4:00 PM - 6:00 PM	Pranabendu Moitra, Ingo Sonder, Greg Valentine	Magma-to-water heat flux estimate: Insight from pool-boiling experiments
VH43B-169	4:00 PM - 6:00 PM	Laszlo Kestay, Colin Dundas	Recent Quantitative Insights from Field Investigations of Lava-Water Interactions
VH43B-170	4:00 PM - 6:00 PM	Julian McAdams, Josef Dufek, Joshua Mendez	Understanding the Dynamics of Bomb Sags: A High Velocity Impact Experimental Approach

VH43C: V.5 Evaluating hazards by mapping and interpreting volcanic deposits I Posters**Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A**

Abstract Number	Time	Authors	Title
VH43C-171	4:00 PM - 6:00 PM	Steph Gates, Ben Kennedy	Modelling ballistic hazard based on partial ballistic deposit fields : exploring limitations and possibilities
VH43C-172	4:00 PM - 6:00 PM	Hisashi Sasaki, Shino Naruke, Suguru Fujita, Ichiro Nagashima	Techniques for probabilistic estimation of damage to buildings by ballistic projectiles
VH43C-173	4:00 PM - 6:00 PM	Marija Voloschina, Gert Lube, Jonathan Procter, Anja Moebis	Developing a multi-hazard eruptive record for Mt Ruapehu, New Zealand
VH43C-174	4:00 PM - 6:00 PM	Lloyd Singura, Tsukasa Ohba	Quaternary explosive eruptions of Rabaul and its tephra evolution and distribution in the New Ireland Basin-Petrological assessments of sedimented and recent tephra deposits
VH43C-175	4:00 PM - 6:00 PM	Marcus Phua, Sean Pyne-O'Donnell, Hamdi Rifai, Rina Zuraida, Satish Singh, Caroline Bouvet de Maisonneuve	Understanding the eruptive history of Sumatran Volcanoes through Tephrostratigraphy
VH43C-176	4:00 PM - 6:00 PM	Ma. Antonia Bornas, Danikko John Rivera, Robjunelieaaa Lim, Renato Solidum, Alain Bernard	Reconstructing the 1754 eruption of Taal Volcano, Philippines: First results from deposit stratigraphy, particle analysis and geochemistry
VH43C-177	4:00 PM - 6:00 PM	Takehiko Suzuki, Masanori Murata	Tephrochronological study of the long-term explosive eruption history in the Northeast Japan Arc
VH43C-178	4:00 PM - 6:00 PM	Danielle McLean, Paul Albert, Victoria Smith, Takeshi Nakagawa, Takehiko Suzuki, Keitaro Yamada, Ikuko Kitaba, SG14 Project Members	Resolving the tempo of Holocene volcanism in East Asia using the Lake Suigetsu record (central Japan)
VH43C-179	4:00 PM - 6:00 PM	Kyoko Kataoka, Yoshitaka Nagahashi	Frequent lahars and hidden eruptions at Adataru and Bandai volcanoes unraveled by volcanic sediment density flow deposits in Lake Inawashiro-ko, Fukushima, Japan
VH43C-180	4:00 PM - 6:00 PM	Janet Schaefer, Katherine Mulliken, Cheryl Cameron, Kristi Wallace	Digitizing Alaska's ashfall record: a tephra geospatial database
VH43C-181	4:00 PM - 6:00 PM	Alessandra Pensa, Lucia Capra, Guido Giordano, Sveva Corrado, Claudia Romano	Using charred trees for the determination of block and ash flow and ash cloud temperatures of the 10-11 July 2015 Colima Volcano eruption (Mexico)
VH43C-182	4:00 PM - 6:00 PM	Claus Siebe, Sergio Salinas, Lilia Arana-Salinas, José Luis Macías, James Gardner, Rosanna Bonasia	Popocatepetl's White Pumice Plinian eruption (~27,800 cal BP) and associated debris avalanche: Implications for hazard evaluations
VH43C-183	4:00 PM - 6:00 PM	Lizzette Rodriguez	Preliminary results of grain size and component analysis of pyroclastic deposits from events at Fuego and Santiaguito volcanoes, Guatemala, during the period 2010-2016
VH43C-184	4:00 PM - 6:00 PM	John Zayac, Marc-Antoine Longpré, Eveling Espinoza, Armando Saballos	Eruptive History and Mafic-to-Silicic Magma Interactions at Monte Galán and Momotombo Volcanoes, Nicaragua
VH43C-185	4:00 PM - 6:00 PM	Minard Lane Hall, Patricia A. Mothes, Alexandra P. Alvarado	HAZARDS OF REMOBILIZED TEPHRA SEQUENCES DOWNWIND OF ACTIHT VOLCANOES
VH43C-186	4:00 PM - 6:00 PM	Maria Janebo, Thorvaldur Thordarson, Sébastien Biass, Costanza Bonadonna, Bruce Houghton	Estimating eruption source parameters for explosive eruptions in Iceland
VH43C-187	4:00 PM - 6:00 PM	Esther Ruth Gudmundsdóttir, Gudrun Larsen, Jón Eiríksson, Ólafur Ingólfsson	Periodicity in Icelandic volcanism – What do tephra layers tell us?
VH43C-188	4:00 PM - 6:00 PM	Bergrun Arna Óladóttir, Olgeir Sigmarsson, Gudrun Larsen	Tephra production and magma plumbing system The Katla volcanic system, Iceland
VH43C-189	4:00 PM - 6:00 PM	Roberto Isaia, Daniela Mele, Roberto Sulpizio, Giovanni Macedonio, Antonio Costa, Fabio Dioguardi	Tephra fallout hazard scenarios at Campi Flegrei caldera (Italy) as deduced from combined use of geological data, laboratory analysis and physical modeling
VH43C-190	4:00 PM - 6:00 PM	Lena Steinmann, Volkhard Spiess, Marco Sacchi	Stratigraphy, architecture and volcanic evolution of an amphibious caldera – Insights from a 3D high-resolution multichannel seismic survey at the Campi Flegrei caldera
VH43C-191	4:00 PM - 6:00 PM	Pamela Rattigan, David Brown	The stratigraphy and emplacement of lava-like and welded ignimbrites on the southern flank of Las Cañadas Caldera, Tenerife, Canary Islands: implications for volcanic hazards in the Canary Islands
VH43C-192	4:00 PM - 6:00 PM	Karen Fontijn, Keri McNamara, Amdimichael Zafu, David Pyle, William Hutchison, Gezahegn Yirgu, Tamsin Mather	Contrasting styles of volcanic activity along the Main Ethiopian Rift: Implications for contemporary volcanic hazards
VH43C-193	4:00 PM - 6:00 PM	Keri McNamara, Karen Fontijn, Katharine Cashman, Alison Rust, Amde Micheal Zafu, Gezahegn Yirgu, Françoise Chalie	Constraining the Holocene eruptive history of Aluto volcano in Ethiopia

VS43A: VII.1 Managing volcanic risk in developing countries: benefits from community based risk strategies Posters**Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A**

Abstract Number	Time	Authors	Title
VS43A-194	4:00 PM - 6:00 PM	Jenni Barclay, Jonathan Stone, Maria Teresa Armijos, Anna Hicks	Citizen Science in Volcanology: analysing benefits for communities at risk
VS43A-195	4:00 PM - 6:00 PM	Erouscilla Joseph, Denise Beckles, Viveka Jackson, Leonette Cox, Stacey Edwards	Community-Based Volcano Monitoring Approach at Sulphur Springs, Saint Lucia: A Lesson in Good Stakeholder Engagement
VS43A-196	4:00 PM - 6:00 PM	Margaret Mangan, Jessica Ball, Michael Clynne, David Damby, Hannah Dietterich, Larry Mastin, Manuel Nathenson, Joel Robinson	If Lassen Erupted Today: Using "what if" scenarios to focus volcanic risk management, societal resilience, and long-term mitigation of eruption impacts
VS43A-197	4:00 PM - 6:00 PM	Melanie Duncan, Katy Mee, Samantha Engwell, Anna Hicks, Sue Loughlin, Richard Robertson, Michelle Forbes, Idelia Ferdinand	Increasing resilience to multiple natural hazards through citizen science: piloting the myVolcano app in St Vincent and the Grenadines

VS43A-198	4:00 PM - 6:00 PM	Paul Taylor	The 1943 Eruption of Niuafu'ou: An Eruption Chronology and the Effects of Volcanic Pollution as Provided by Local Informants
VS43A-199	4:00 PM - 6:00 PM	Martin Parham, Simon Day, Richard Teeuw	To evaluate changes in school children's perceptions of multiple hazards in Dominica, Caribbean: impact of education programs upon hazard awareness before and after local natural disasters
VS43A-200	4:00 PM - 6:00 PM	Luke Bowman, Camila Velastegui, Carlos Lara	What do we say, when do we say it, and who do we tell it to? Volcanic hazard awareness and risk reduction at Cayambe Volcano, Ecuador

VS43B: VII.3 Start spreading the news: Diverse and effective methods for communicating about volcanoes I Posters
Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
VS43B-201	4:00 PM - 6:00 PM	Michael Petterson, Paul Taylor	Finding a Volcanic Voice in a Multiple Hazard World: Experience from a Pacific Regional Organisation
VS43B-202	4:00 PM - 6:00 PM	Jessica Ball, Margaret Mangan, Nathan Wood, Laura Dinitz	Crafting Effective Messaging for Volcanic Hazard Exposure and Vulnerability Studies in California
VS43B-203	4:00 PM - 6:00 PM	Danielle Charlton, Christopher Kilburn, Stephen Edwards	Communicating hazard information to varying audiences
VS43B-204	4:00 PM - 6:00 PM	Luisa Macedo Franco, Marco Rivera Porras, Jersey Mariño Salazar	Reducing Volcanic Risk in Arequipa City
VS43B-205	4:00 PM - 6:00 PM	David Calvo, Luca D'Auria, José Barrancos, Eleazar Padrón, Germán Padilla, Rubén García, Fiona Burns, Aarón Pérez, Pedro A. Hernández	GUAYOTA: a weekly multi-language chart information on the seismo-volcanic activity at Tenerife, Canary Islands
VS43B-206	4:00 PM - 6:00 PM	Giuseppe Puglisi, Kristín S. Vogfjörð, Sigurður Fjalur Sigurðarson, Danilo Reitano, Philippe Labazuy, Arnaud Lemarchand, Adelina Geyer, Carlos Primo	Vulkan: the European gateway for EPOS-IP Volcano Observation Thematic Core Services
VS43B-207	4:00 PM - 6:00 PM	Jacqueline Dohaney, Ben Kennedy, Thomas M. Wilson, Erik Brogt, Darren Gravley	Simulating a volcanic crisis to teach students emergency management, volcanic forecasting concepts, and communication skills
VS43B-208	4:00 PM - 6:00 PM	Sally Sennert, Erik Klemetti, Deanne Bird	Role of Social Media and Networking in Volcanic Crises and Communication
VS43B-209	4:00 PM - 6:00 PM	Elizabeth Westby	"Reality" social media engages viewers and builds a following: USGS Volcanoes Mount St Helens eruption anniversary series delivers an insider's perspective on the events surrounding May 18, 1980

VS43C: VII.4 Integrated volcanic risk assessment I Posters
Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
VS43C-210	4:00 PM - 6:00 PM	Edwin Simbaña, Francisco Vásconez, Anais Vásconez, Ernesto Meza, Daniel Andrade	Evidences of the destruction of pre-Hispanic populations by lahars from Cayambe volcano (Ecuador) and implications for future eruptive periods
VS43C-211	4:00 PM - 6:00 PM	Brad Scott	Creating volcano activity catalogues from historic records; A case study from Ruapehu and Te Maari volcanoes, Tongariro National Park, New Zealand
VS43C-212	4:00 PM - 6:00 PM	Jon J. Major, Gordon E. Grant, Sarah L. Lewis	A volcano, a lake, and a recurring headache—the Spirit Lake conundrum
VS43C-213	4:00 PM - 6:00 PM	Carlos Suarez-Plascencia, Francisco-Javier Nuñez-Cornu, Digna Ahtziri Carrillo Gonzalez, Bianca Valeria Sarez-Gonzalez	THE ERUPTIHT PROCESS 2015-2017 DEL VOLCÁN COLIMA, MEXICO AND UPDATING THE MAP OF RISK
VS43C-214	4:00 PM - 6:00 PM	Elizabeth Trejo-Gomez, Francisco Javier Nuñez-Cornu, CARLOS SUAREZ-PLASCENCIA, DIANA NUÑEZ, JUANA MARTINEZ-ALVAREZ, JUAN MANUEL SANDOVAL-HERNANDEZ, ADAN GOMEZ-HERNANDEZ	Vulnerability estimation at Ceboruco Volcano, Nayarit, Mexico
VS43C-215	4:00 PM - 6:00 PM	Florian Barette, Caroline Michellier, Sophie Mossoux, Sam Poppe, Benoît Smets, Eléonore Wolff, François Kervyn, Matthieu Keryvn	Assessing lava flow risk at Nyiragongo volcano, DR Congo. Part 2: Lava flow hazard map
VS43C-216	4:00 PM - 6:00 PM	George Williams, Colin Frewan, Sterling Morgan, Ben Kennedy, Thomas Wilson, Allan Scott, Alex Watson	Ballistic cannon experiments quantify the vulnerability of buildings impacted in a multi-hazard ballistic and ash fall context
VS43C-217	4:00 PM - 6:00 PM	Carol Stewart, Natalia Deligne, Thomas Wilson, Alistair Davies, Priyan Perera, Rob Buxton, Emily Grace	Investigating volcanic eruption impacts on water infrastructure using a scenario approach: damage to networks, outage maps and potential public health consequences

VS43D: VII.5 Health roles in volcanic crises: looking back, looking forward Posters
Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
VS43D-218	4:00 PM - 6:00 PM	Peter Baxter	Health effects of volcanic ash: still looking for answers
VS43D-219	4:00 PM - 6:00 PM	David Damby, Claire Horwell, Claire Nattrass	Origin of a public health concern: Cristobalite in ash from the 18 May 1980 eruption of Mount St Helens

VS43D-220	4:00 PM - 6:00 PM	Claire Horwell, Andrew Apsley, Stephanie McPherson, Karen Galea, Will Muller, Susanne Steinle, Anne Sleuwenhoek, Martie Van Tongeren	Testing the effectiveness of respiratory protection used to prevent inhalation of volcanic ash: filtration efficiency experiments
VS43D-221	4:00 PM - 6:00 PM	Tamar Elias, Elizabeth Tam, Claire J. Horwell, A. Jeff Sutton	Volcanic air pollution in Hawai'i: a closer look at air quality, self-reported respiratory symptoms, and measured health outcomes

VS43E: VII.6 Successful information coordination among scientists, civil protection groups, and local officials during a crisis I Posters
Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
VS43E-222	4:00 PM - 6:00 PM	Brian Terbush	Successes, challenges, and strategies for effective communication with emergency managers
VS43E-223	4:00 PM - 6:00 PM	Thomas Murray, Seth Moran, John Ewert	The Role of US Volcano Observatories in Mitigating the Threats and Risks of Volcanic Unrest and Eruption
VS43E-224	4:00 PM - 6:00 PM	Montserrat Cascante, Maarten DeMoor, Cyril Muller, Geoffroy Avard, Maria Martinez, Javier Paheco, Jorge Brenes	Development of a volcanic crisis protocol for the Observatorio Vulcanologico y Sismologico de Costa Rica, OVSI-CORI
VS43E-225	4:00 PM - 6:00 PM	Justin Peers, Ashleigh Reeves, Chris Gregg, Michael Lindell, Timothy Joyner, David Johnston	Official stakeholder mental models of effective volcano evacuation at the Long Valley Caldera and Mono-Inyo Craters volcanic system, eastern California, USA
VS43E-226	4:00 PM - 6:00 PM	Graeme Alexander William Sinclair, Jennie Gilbert, Nigel Clark	Topography and Topologies of Policy Mobility in Volcanic Risk Reduction
VS43E-227	4:00 PM - 6:00 PM	Hans Lechner, Mark Rouleau, Greg Waite	To flee or not to flee? Lessons learned from the 2010 eruption at Pacaya volcano and factors affecting evacuation decisions
VS43E-228	4:00 PM - 6:00 PM	Andrew Tupper	Getting real – making the International Airways Volcano Watch work for everybody
VS43E-229	4:00 PM - 6:00 PM	Helen Thomas, Matthew Watson, Rory Clarkson, Helen Dacre, Colin Hord	Volcanic Ash and Aviation: Knowledge Exchange for Improved Hazard Mitigation
VS43E-230	4:00 PM - 6:00 PM	Ashleigh Reeves, Christopher Gregg, Michael Lindell, Timothy Joyner, Carla Prater	Assessing stakeholder perceptions and warning confidence at Kilauea and Mauna Loa volcanoes, Hawai'i
VS43E-231	4:00 PM - 6:00 PM	Ma. Mylene Martinez-Villegas, Renato Solidum, Jean Saludadez, Ruben Lamela	Moving for Safety: A Qualitative Analysis of the Communication among the Scientists, Local Officials and the Affected Communities in the 2014 Mayon Volcano Eruption Evacuation
VS43E-232	4:00 PM - 6:00 PM	Gari Mayberry, David Ramsey, John Pallister	The Volcano Disaster Assistance Program's Performance Monitoring and Evaluation System: Coordinating, Capturing, and Communicating Progress in Building the Capacity to Respond to Volcanic Crises
VS43E-233	4:00 PM - 6:00 PM	Christina Neal, Janet Babb, Steven Brantley, James Kauahikaua	Living and working with those at risk: lessons in information coordination from the US Geological Survey's Hawaiian Volcano Observatory
VS43E-234	4:00 PM - 6:00 PM	Cheryl Cameron, Kristi Wallace, Michelle Coombs, David Schneider, Hans Schwaiger, Donald Moore, Louise Fode, Christina Neal	Interagency communication at the Alaska Volcano Observatory: A case study of the 2016-17 eruption of Bogoslof volcano
VS43E-235	4:00 PM - 6:00 PM	Carolyn Driedger, Peggy LovellFord, Jay Wilson, Maximilian Dixon	Preparing with Partners and Populations for Communications during Volcanic Crisis in Washington and Oregon, USA
VS43E-236	4:00 PM - 6:00 PM	Claire Witham, Sara Barsotti, Stephanie Dumont	"Katla Erupts": A transboundary exercise conducted by FUTUREVOLC
VS43E-237	4:00 PM - 6:00 PM	John Pallister, Paolo Papale, Charles Mandeville, John Eichelberger	Recommendations of the Volcano Observatory Best Practices (VOBP) workshops

FT43A: VIII.2 Drones and robots in volcanology II Posters
Thursday August 17, 2017. 4:00 PM - 6:00 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
FT43A-238	4:00 PM - 6:00 PM	Peter Webley, Catherine Cahill, Marty Rogers, Michael Hatfield	Alaska Center for Unmanned Aircraft Systems Integration (ACUASI): Operational Support and Geoscience Research
FT43A-239	4:00 PM - 6:00 PM	Brian Perttu, Kyle Bradley	UAV Rapid Field Assessment, Survey, and Data Processing: an geoscience educational study
FT43A-240	4:00 PM - 6:00 PM	Stephen P. Scheidt, Jacob E. Bleacher, Christopher W. Hamilton, Patrick L. Whelley, William B. Garry, Joana Voigt, Sarah Sutton	Anatomy of streamlined volcanic islands using multi-view stereophotogrammetry, Kilauea volcano, Hawaii
FT43A-241	4:00 PM - 6:00 PM	Luis Angel Rodriguez-Sedano, Damiano Sarocchi, Lorenzo Borselli, Oscar Augusto Segura-Cisneros, Gamaliel Moreno-Chavez	Volcano-sedimentary survey of pyroclastic deposits by means of unmanned aerial vehicles
FT43A-242	4:00 PM - 6:00 PM	Naomi Nagata, Keiji Nagatani, Ryosuke Yajima, Tomoyuki Izu, Yasushi Hada, Shigeki Hirose, Noriaki Nakagawa, Toru Shimada	Development of survey technologies for volcanic eruption and lahar, using drone
FT43A-243	4:00 PM - 6:00 PM	Victoria Tweedie, John Stix	Calibration of non-radiometric FLIR Vue Pro thermal camera for use on a UAV