### Plenary Session

**Friday August 18, 2017.** 8:30 AM - 10:30 AM  
**OCC Oregon Ballroom 201-203**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vickie McConnell</td>
<td>Interfacing Science with Government: You Don’t Always Get What You Want</td>
</tr>
<tr>
<td>Peter Frenzen</td>
<td>Interfacing with the Public: Lessons Learned from 30 Years of Science Messaging at Mount St. Helens</td>
</tr>
</tbody>
</table>

### ME51A: II.4 Experimental volcanology: from magma generation to the transport and emplacement of pyroclastic materials II

**Friday August 18, 2017.** 10:30 AM - 12:30 PM  
**Room A107-109**

<table>
<thead>
<tr>
<th>Abstract Number</th>
<th>Time</th>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME51A-1 (invited)</td>
<td>10:30 AM - 10:45 AM</td>
<td>Alessandro Vona, Andrea Di Piazza, Eugenio Nicotra, Claudia Romano, Marco Viccaro, Guido Giordano</td>
<td>Long-lived crystal mushes, short-lived eruptible magmas, and various crystal records: Okataina rhyolite volcano</td>
</tr>
<tr>
<td>ME51A-2 (invited)</td>
<td>10:45 AM - 11:00 AM</td>
<td>Michael Stock, Madeleine Humphreys, Victoria Smith, Roberto Isaa, Richard Brooker, David Pyle</td>
<td>Tracking pre-eruptive volatile behaviour at Campi Flegrei, Italy, through integrated analysis of apatite and glass</td>
</tr>
<tr>
<td>ME51A-3</td>
<td>11:00 AM - 11:15 AM</td>
<td>Tanya Flaherty, Tim Drutt, Gareth Fabbiro, Fidel Costa, Katie Preece, Chad Deering</td>
<td>Timescales of final magma chamber assembly prior to the Minoan eruption of Santorini from Fe-Mg diffusion chronometry in pyroxenes</td>
</tr>
<tr>
<td>ME51A-4 (invited)</td>
<td>11:15 AM - 11:30 AM</td>
<td>Thomas Shea</td>
<td>Probing olivine for chemical zoning and timescales: insights from crystallization experiments in natural basalt</td>
</tr>
<tr>
<td>ME51A-5 (invited)</td>
<td>11:30 AM - 11:45 AM</td>
<td>Fiona Couperthwaite, Daniel Morgan, Thor Thordarson, Jason Harvey</td>
<td>Diffusion chronometry: potential and problems as a volcano eruption monitoring tool</td>
</tr>
<tr>
<td>ME51A-6 (invited)</td>
<td>11:45 AM - 12:00 PM</td>
<td>Kendra J. Lynn, Thomas Shea, Michael O. Garcia, Fidel Costa</td>
<td>A new application of lithium diffusion in olivine to investigate late-stage mixing events at Kilauea Volcano (Hawaii)</td>
</tr>
<tr>
<td>ME51A-7 (invited)</td>
<td>12:00 PM - 12:15 PM</td>
<td>Chiara Maria Petrone, Martin Mangler</td>
<td>The interplinian activity at Popocatepetl volcano (Mexico): months-scale magma mixing events at a steady-state active volcano</td>
</tr>
<tr>
<td>ME51A-8 (invited)</td>
<td>12:15 PM - 12:30 PM</td>
<td>Mark Stelten, Kari Cooper</td>
<td>Petrologic evidence for the current state of Yellowstone’s magmatic system</td>
</tr>
</tbody>
</table>

### ME51B: II.5 Using geochronology and quantitative petrology to understand the P-T-t-X evolution of magmatic systems leading up to volcanic eruptions III

**Friday August 18, 2017.** 10:30 AM - 12:30 PM  
**Room B114-115**

<table>
<thead>
<tr>
<th>Abstract Number</th>
<th>Time</th>
<th>Authors</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ME51B-1 (invited)</td>
<td>10:30 AM - 10:45 AM</td>
<td>Reza Mirzaei, Mohammad Karimi, Mohammad Jafarnejad, Shahriar Shafiei, Leila Aminian, Mohammad Rezaei</td>
<td>Subliquidus rheology applied to the December 2010 eruption of Piton de la Fournaise (La Réunion)</td>
</tr>
<tr>
<td>ME51B-2 (invited)</td>
<td>10:45 AM - 11:00 AM</td>
<td>Eleonora Rivalta, Marco Viccaro, Guido Giordano</td>
<td>Effect of deformation on the crystallization kinetics of melts</td>
</tr>
<tr>
<td>ME51B-3</td>
<td>11:00 AM - 11:15 AM</td>
<td>Johannes Klein, Sebastain Mueller, Jonathan Castro</td>
<td>The influence of crystal size distributions (CSD) on the rheology of magma: new insights from analogue and petrological experiments</td>
</tr>
<tr>
<td>ME51B-4 (invited)</td>
<td>11:15 AM - 11:30 AM</td>
<td>Johannes Klein, Sebastain Mueller, Jonathan Castro</td>
<td>Petrologic evidence for the current state of Yellowstone’s magmatic system</td>
</tr>
</tbody>
</table>

### PES1A: III.1 Forecasting volcanic eruptions IV

**Friday August 18, 2017.** 10:30 AM - 12:30 PM  
**Room B117-119**

<table>
<thead>
<tr>
<th>Abstract Number</th>
<th>Time</th>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PES1A-1 (invited)</td>
<td>10:30 AM - 10:45 AM</td>
<td>Devy Kamil Syahbana, Martanto Martanto, Novia Abdul-Manaf, Heruntingtia Desi Purnamasari, Anissa Prastanti, Nia Pekarani, Ing Kusnadi, Ferry Rusmawan, Aditya Sebastian Andreas, Diktory Prambada, Ugan Boyiong Saing, Yudi Wahyudi, Syarf Abdul-Manaf, David Adrianyah, Syegi Lenarahmi Kunrat, Yasa Suparanman, Ardy Setya Prayoga, Gine Malianu, Mandian Handipto</td>
<td>Eruption precursors: A case study from volcanoes in eastern region of Indonesia</td>
</tr>
<tr>
<td>PES1A-2 (invited)</td>
<td>10:45 AM - 11:00 AM</td>
<td>L. Maarten de Moor, Cyril Muller, Javier Marso, Mauricio Mora, Geoffroy Avard, Alessandro Akappa, Guillermo Alvarado, Christoph Korn, Peter Kelly, Jeremy Pesicek, Heather Wright, John Pallister, Jeff Marso</td>
<td>The slow awakening of Turrialba Volcano: An increasing challenge for eruption forecasts</td>
</tr>
<tr>
<td>PES1A-3</td>
<td>11:00 AM - 11:15 AM</td>
<td>Michelle Cosombs, Alaska Volcano Observatory Staff</td>
<td>Forecasting and detection during the 2016-2017 eruption of Alaska’s Bogoslof volcano</td>
</tr>
</tbody>
</table>
### PES1B: III.2 Geophysical multi-parameter techniques for monitoring active volcanoes IV

**Friday August 18, 2017.** 10:30 AM - 12:30 PM  
**Ballroom 201-203**

<table>
<thead>
<tr>
<th>Abstract Number</th>
<th>Time</th>
<th>Authors</th>
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<tbody>
<tr>
<td>PES1B-1</td>
<td>10:30 AM - 10:45 AM</td>
<td>Haelz Rymer, Glyn Williams-Jones, John Murray, Pierre Delmelle, Kelly Reid, Guiller Caravantes-Gonzalez</td>
<td>Precursors to the current activity at Masaya volcano, Nicaragua</td>
</tr>
<tr>
<td>PES1B-2</td>
<td>10:45 AM - 11:00 AM</td>
<td>Takeshi Hashimoto, Masami Matsumoto, Kisa Okamoto, Hiroshi Koyama, Atsushi Morii, Wataru Mishima, Tagiru Ogino, Ryot Takahashi</td>
<td>Long-term Correlation between Geomagnetic Filed Changes, Ground Deformation and Gas Composition at Mt. Tarumae Volcano, Northern Japan</td>
</tr>
<tr>
<td>PES1B-3</td>
<td>11:00 AM - 11:15 AM</td>
<td>Viviane Saute, Sylvie Vergniolle, Christelle Zelinski, Philippon Bani, Alexis Le Pichon, Michel Lardy, Philippe Miller, Pascal Henry, Sylvain Todman</td>
<td>Insights on eruptive patterns at open-vent volcanoes from simultaneous infrasonic, thermal and seismic records at Yasur volcano (Vanuatu)</td>
</tr>
<tr>
<td>PES1B-4</td>
<td>11:15 AM - 11:30 AM</td>
<td>Luis Miguel Peci Sanchez, Manuel Berrocoso Dominguez, Alberto Fernandez-Ros, Goncalo Prates, Amos De Gil, Raul Paez, Belen Rosado Moscoso</td>
<td>VALIDATION OF THE MULTIPARAMETRIC SYSTEM FOR VOLCANIC SURVILLANCE ON DECEPTION ISLAND (ANTARCTICA): VOLCANIC PROCESS 2012-2017</td>
</tr>
<tr>
<td>PES1B-5</td>
<td>11:30 AM - 11:45 AM</td>
<td>Yoichi Sasai, Makoto Uyeshige, Jacques Zlotnicki</td>
<td>Magnetic variations associated with the tilt-step events during the 2000 eruption of Miyake-jima volcano revisited</td>
</tr>
<tr>
<td>PES1B-6</td>
<td>11:45 AM - 12:00 PM</td>
<td>Gregory Waite, Kyle Brill, Monica Castro-Escobar</td>
<td>The persistent eruptive activity at Fuego volcano, Guatemala: a multi-instrumental evaluation of processes with timescales from seconds to months</td>
</tr>
<tr>
<td>PES1B-7</td>
<td>12:00 PM - 12:15 PM</td>
<td>Richard Middlemess</td>
<td>Miniaturised Gravity Sensors for Remote Gravity Surveys</td>
</tr>
<tr>
<td>PES1B-8</td>
<td>12:15 PM - 12:30 PM</td>
<td>Jacques Zlotnicki, Yoichi Sasai, Malcolm Johnston, George Vargemezis, PHIVOLCS EM (E. Villacorte, P. Reniva, P. Alanis, Juan M. Gordon Jr) Team</td>
<td>Taal volcano in Philippines: What is the future?</td>
</tr>
</tbody>
</table>

### PES1C: III.3 Multidisciplinary constraints on volcanic eruption triggers II

**Friday August 18, 2017.** 10:30 AM - 12:30 PM  
**Room B113**

<table>
<thead>
<tr>
<th>Abstract Number (invited)</th>
<th>Time</th>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PES1C-1</td>
<td>10:30 AM - 10:45 AM</td>
<td>Christy Til</td>
<td>An Integrated Approach for Identifying the P-T-X-t Histories and Eruption Triggers for Silicic Magmas: An Example Examining the Scaup Lake Rhylolite, Yellowstone Caldera, WY</td>
</tr>
<tr>
<td>PES1C-2</td>
<td>10:45 AM - 11:00 AM</td>
<td>Lucy McGee, Heather Handlely, Mark Reagun, Simon Turner, Kim Berlo, Michael Turner, Jenni Barclay, Steve Sparks</td>
<td>Testing the mafic trigger hypothesis at Soufriere Hills Volcano, Montserrat, using short-lived U-series isotopes</td>
</tr>
<tr>
<td>PES1C-3</td>
<td>11:00 AM - 11:15 AM</td>
<td>Jon Blundy, Oleg Melnik, Natasha Gorokhova, Ralf Dohmen</td>
<td>Rapid Destabilisation of the Magma System Beneath Mount St Helens prior to 1980-86 Eruption</td>
</tr>
<tr>
<td>PES1C-4</td>
<td>11:15 AM - 11:30 AM</td>
<td>Jen Truby, Ed Lellwelly, Jacopo Taddeucci, Mike Dungan</td>
<td>Mobilizing a magma mush through bubble growth – rheological triggering of the largest eruptions</td>
</tr>
<tr>
<td>PES1C-5</td>
<td>11:30 AM - 11:45 AM</td>
<td>Kaylon Higgenbotham, Ben Kennedy, Thomas Walter</td>
<td>Shake and wake: investigating how earthquakes trigger volcanic activity by shaking bubbles in shear thinning fluids as an analogue for magma chambers during earthquakes</td>
</tr>
<tr>
<td>PES1C-6</td>
<td>11:45 AM - 12:00 PM</td>
<td>Haley Cabanis, Patricia Gregg, Eric Grosfils</td>
<td>Tectonic triggering of large caldera eruptions in the Taupo Volcanic Zone</td>
</tr>
<tr>
<td>PES1C-7</td>
<td>12:00 PM - 12:15 PM</td>
<td>Daniel Basualto, Pablo Gonzalez, Loreto Cordova, Jonathan Quijada, Gabriela Velasquez, Diego Lobos</td>
<td>Megathrust and Volcanic Reactivations, Evidence, Correlations and Erupions in the Chilean Volcanic Belt</td>
</tr>
<tr>
<td>PES1C-8</td>
<td>12:15 PM - 12:30 PM</td>
<td>Matthew Pritchard, Francisco Delgado, Philipp Ruprecht, Paul Lundgren, Kyle Anderson, Luis Lara, Daniel Bertin, Julia Kubaneck</td>
<td>Precursors and evolution of the 2011-2012 rhodacite eruption of Cordón Caille, southern Chile</td>
</tr>
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</table>

### VO51A IV.4 Volcanic plumes and clouds: from injection to dispersion II

**Friday August 18, 2017.** 10:30 AM - 12:30 PM  
**Room A106**

<table>
<thead>
<tr>
<th>Abstract Number (invited)</th>
<th>Time</th>
<th>Authors</th>
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<tbody>
<tr>
<td>VO51A-1</td>
<td>10:30 AM - 11:00 AM</td>
<td>Matteo Cerminara</td>
<td>Comparing and understanding volcanic plume models: can integral approaches reproduce 3D simulations?</td>
</tr>
<tr>
<td>VO51A-2</td>
<td>11:00 AM - 11:15 AM</td>
<td>Benjamin Devenish</td>
<td>A co-Flowing two-plume model of a volcanic eruption column</td>
</tr>
</tbody>
</table>
**VOS1A: Successful information coordination among scientists, civil protection groups, and local officials during a crisis**

<table>
<thead>
<tr>
<th>Time</th>
<th>Authors</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>11:15 AM - 11:30 AM</td>
<td>David Jessop, Josef Dufek, Mark Jellinek, Olivier Roche, Johan Gilchrist</td>
<td>Particle-plume coupling and vent-shape effects on volcanic plume stability</td>
</tr>
<tr>
<td>11:30 AM - 12:00 PM</td>
<td>Antonio Costa, Giovanni Macedonio</td>
<td>Modelling particle charge and electrostatic field effects on volcanic ash aggregation</td>
</tr>
<tr>
<td>12:00 PM - 12:15 PM</td>
<td>Matthieu Poret, Antonio Costa, Amal Fouh, Alex Marti</td>
<td>Modelling tephra dispersal and ash aggregation: application to the 26 April 1979 eruption of La Souffrière St. Vincent</td>
</tr>
<tr>
<td>12:15 PM - 12:30 PM</td>
<td>Frances Beckett, Arve Kjilling, Sibylle von Louis, Claire Witham</td>
<td>Modelling and Observing Ash Plumes from Remobilisation Events</td>
</tr>
</tbody>
</table>

**VOS1A: VI:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Authors</th>
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</tr>
</thead>
<tbody>
<tr>
<td>10:00 AM - 10:15 AM</td>
<td>Scott Rowland, Andrew Harris, Nicolas Villeneuve, Thorvaldur Thordarson</td>
<td>THERE IS ALWAYS SOMETHING TO LEARN FROM THOSE INTERESTING BUT PUZZLING LAVA-FLOW OUTCROPS THAT EVERYBODY COMES ACROSS MANY TIMES AND THEN</td>
</tr>
<tr>
<td>10:30 AM - 10:45 AM</td>
<td>Ida Catherine Simmons, Melissa Anne Pfeffer, Eliza Shona Calder, Bo Galle, Santiago Arellano, Diego Coppola, Sara Barsotti</td>
<td>Extended SO2 outgassing from the 2014-2015 Holuhraun lava field, Iceland</td>
</tr>
<tr>
<td>10:45 AM - 11:00 AM</td>
<td>Yannick Le Moigne, Glyn Williams-Jones, Karim Kelloun, Philippe Labazuy, Kelly Russell, Nathalie Vigouroux-Caillbot</td>
<td>Investigating and modeling Canada’s deadliest volcanic eruption</td>
</tr>
<tr>
<td>11:00 AM - 11:15 AM</td>
<td>Hannah Dieterich, Drew Downs, Mark Stelten</td>
<td>Reconstructing lava flow emplacement histories with implications for hazard assessment within the Harrat Rahat volcanic field, Saudi Arabia</td>
</tr>
<tr>
<td>11:15 AM - 11:30 AM</td>
<td>Sophie Mossoux, Mathijs Saey, Sam Poppe, Stefania Bartolini, Frank Canters, Matthieu Kervyn</td>
<td>Q-LavHA, a plugin to simulate lava flows: functioning and applications</td>
</tr>
<tr>
<td>11:30 AM - 11:45 AM</td>
<td>Ed Llewellin, Jen Trub, Tim Orr, Hugh Tuffen, Bruce Houghton</td>
<td>Does bubble suspension rheology control runout-length of lava flows?</td>
</tr>
<tr>
<td>11:45 AM - 12:00 PM</td>
<td>Robert Wright, Estelle Bonny</td>
<td>An assessment of three satellite-based methods to retrieve lava discharge rate</td>
</tr>
</tbody>
</table>

**VHS1A: VII:**

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<thead>
<tr>
<th>Time</th>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30 AM - 10:45 AM</td>
<td>Roberto Sulpizio</td>
<td>On the use of field data for defining eruptive scenarios and drawing of hazard maps</td>
</tr>
<tr>
<td>11:00 AM - 11:15 AM</td>
<td>John Ewert</td>
<td>A history of volcano hazard maps</td>
</tr>
<tr>
<td>11:15 AM - 11:30 AM</td>
<td>Jan Lindsay, Eliza Calder, Mary Anne Thompson, John Ewert, Graham Leonard</td>
<td>State of the Volcanic Hazard Map: Development and preliminary results of a world-wide survey of official volcanic hazard maps. A presentation on behalf of the IAVCEI Hazard Mapping Working Group</td>
</tr>
<tr>
<td>11:30 AM - 11:45 AM</td>
<td>Charlotte Vye-Brown, Sue Loughlin, Julia Crummy, Murray Lark, Richard Brown, Sam Engwell, Katie Preece, Jenni Barclay, Kay Smith</td>
<td>Development of a volcanic hazard assessment methodology for Ascension Island, South Atlantic Islands</td>
</tr>
<tr>
<td>11:45 AM - 12:00 PM</td>
<td>Long Li, Longqian Chen, Carmen Solana, Frank Canters, Matthieu Kervyn</td>
<td>Automated discrimination and mapping of lava flows through random forest classification of satellite imagery</td>
</tr>
<tr>
<td>12:00 PM - 12:15 PM</td>
<td>Christopher Harpel, Kus Hendratno, James Stimac, Sofyan Primulayana</td>
<td>The Orange Tuff: a late Pleistocene tephra-fall deposit emplaced by a silicic HTI5 eruption in West Java, Indonesia and its hazard implications</td>
</tr>
<tr>
<td>12:15 PM - 12:30 PM</td>
<td>Rebecca Fitzgerald, Ben Kennedy, Thomas Wilson, Graham Leonard, Amy Jeffrey, Aime McSporran</td>
<td>Ballistic hazard and vulnerability quantification using a pneumatic cannon</td>
</tr>
</tbody>
</table>
### V551A-5
**Time:** 11:30 AM - 11:45 AM  
**Authors:** Sabina Michnowicz, Christopher Kilburn  
**Title:** Developing trust in hazard warnings and responses at long-quiet volcanoes

### V551A-6
**Time:** 11:45 AM - 12:00 PM  
**Authors:** Paolo Papale  
**Title:** Communication of volcanic hazards in urbanized areas, and the roles of scientists and decision makers

### V551A-7
**Time:** 12:00 PM - 12:30 PM  
**Title:** Panel Discussion

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### ME52A: II.3 Active lava lakes: A window into the deep? II
Friday August 18, 2017.  2:00 PM - 4:00 PM  Room B113

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<tr>
<th>Abstract Number</th>
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<tbody>
<tr>
<td>ME52A-1 (invited)</td>
<td>2:00 PM - 2:15 PM</td>
<td>Patrick Allard</td>
<td>Terrestrial lava lakes: remarkable windows into inner magma dynamics and degassing at open-conduit volcanoes</td>
</tr>
<tr>
<td>ME52A-2 (invited)</td>
<td>2:15 PM - 2:30 PM</td>
<td>Rosaly Lopes, Jani Radebaugh, Robert Howell, Elizabeth Turtle, Ralph Lorenz, Julie Rathbun, Tracy Gregg</td>
<td>Extraterrestrial Lava Lakes</td>
</tr>
<tr>
<td>ME52A-3</td>
<td>2:30 PM - 2:45 PM</td>
<td>Tafian Barnie, Ashley Gerard Davies, Gezahgen Yirgu, Chris Moore, Simon Carn, David Pieri, Clive Oppenheimer, Juliet Biggs, Tim Wright</td>
<td>The 2017 eruption of Erta ‘Ale volcano, northern Afar, Ethiopia</td>
</tr>
<tr>
<td>ME52A-4</td>
<td>2:45 PM - 3:00 PM</td>
<td>Benoît Smets, Nicolas d’Oreye, Matthieu Kervyn, François Kervyn</td>
<td>The Nyiragongo lava lake (D.R. Congo): current state of knowledge and perspectives</td>
</tr>
<tr>
<td>ME52A-5</td>
<td>3:00 PM - 3:15 PM</td>
<td>Matthew Patrick, Tim Orr, Don Swanson</td>
<td>Is Halema‘uma‘u’s lava lake a window into the deeper magmatic system?</td>
</tr>
<tr>
<td>ME52A-6</td>
<td>3:15 PM - 3:30 PM</td>
<td>Einat Lev, Camera Ford, Matt Patrick, Katharina Unglert</td>
<td>Cooling and degassing of lava lakes – global and local perspectives</td>
</tr>
<tr>
<td>ME52A-7</td>
<td>3:30 PM - 3:45 PM</td>
<td>Holly Rotman, Tehuoka Ilanka, Clive Oppenheimer, Philip Kyle</td>
<td>Seismic and gas geochemical observations during an episode of increased explosive activity at Erebus volcano, Antarctica</td>
</tr>
<tr>
<td>ME52A-8</td>
<td>3:45 PM - 4:00 PM</td>
<td>Clive Oppenheimer</td>
<td>Dynamics of magmatic degassing observed at lava lakes</td>
</tr>
</tbody>
</table>

### ME52B: II.4 Experimental volcanology: from magma generation to the transport and emplacement of pyroclastic materials III
Friday August 18, 2017.  2:00 PM - 4:00 PM  Room B114-115

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<tr>
<th>Abstract Number</th>
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<tbody>
<tr>
<td>ME52B-1 (invited)</td>
<td>2:00 PM - 2:15 PM</td>
<td>Gert Lube, Eric Breard, Luke Fullard, Jim Jones, Shane Cronin, Ermanno Brosch</td>
<td>A recipe for unleashing the infernal forces of pyroclastic flows</td>
</tr>
<tr>
<td>ME52B-2</td>
<td>2:15 PM - 2:30 PM</td>
<td>Olivier Roche, Siet van den Wildenberg, Renaud Delannay, Anne Mangeney, Alexandre Volancce</td>
<td>Basal forces in volcanic granular mass flows – experimental insights</td>
</tr>
<tr>
<td>ME52B-3</td>
<td>2:30 PM - 2:45 PM</td>
<td>Roberto Sulpiozio, Damiano Sarocchi, Luis Angel Rodriguez-Sedano, Brittany Brand, Nicholas Pollock, Gerardo Campos</td>
<td>On the entrapment mechanisms of volcanic granular flows from laboratory experiments and comparison with natural exposures</td>
</tr>
<tr>
<td>ME52B-4</td>
<td>2:45 PM - 3:00 PM</td>
<td>Kristin Fauria, Michael Manga, Michael Chamberlain</td>
<td>Effect of particle entrainment on the runout of pyroclastic density currents</td>
</tr>
<tr>
<td>ME52B-5</td>
<td>3:00 PM - 3:15 PM</td>
<td>Gueugneau Valentin, Kefloun Karim, Roche Olivier, Chupin Laurent</td>
<td>Effects of pore pressure in pyroclastic flows: numerical simulation and experimental validation</td>
</tr>
<tr>
<td>ME52B-6</td>
<td>3:15 PM - 3:30 PM</td>
<td>Anne Weit, Olivier Roche, Thierry Dubois, Michael Manga</td>
<td>Experimental study of the solid phase concentration in volcanic turbulent gas-particle mixtures</td>
</tr>
<tr>
<td>ME52B-7</td>
<td>3:30 PM - 3:45 PM</td>
<td>Valeria Ciga, Ulrich Kippers, Juan Jose Pena Fernandez, Jacopo Teddeucci, Joern Sesterhenn, Donald B Dingwell</td>
<td>What is controlling pyroclast ejection dynamics? Analyzing the boundary conditions affecting velocity and trajectory via shock-tube experiments</td>
</tr>
<tr>
<td>ME52B-8</td>
<td>3:45 PM - 4:00 PM</td>
<td>Corrado Cimarelli, Damien Gaudin, Joshua Méndez-Harper</td>
<td>From ashes to flashes: experimentally mapping the conditions for electrification and lightning in volcanic plumes</td>
</tr>
</tbody>
</table>

### ME52C: II.5 Using geochronology and quantitative petrology to understand the P-T-t-X evolution of magmatic systems leading up to volcanic eruptions IV
Friday August 18, 2017.  2:00 PM - 4:00 PM  Ballroom 201-203

<table>
<thead>
<tr>
<th>Abstract Number</th>
<th>Time</th>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME52C-1</td>
<td>2:00 PM - 2:15 PM</td>
<td>Lydia Harmon, Guilherme Gualda, Darren Gravesy, Chad Deering</td>
<td>Deciphering Whakamaru group storage conditions and magma mingling/co-eruptive magma bodies via glass geochemistry and rhyolite-MELTS geothermobarometry</td>
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<tr>
<td>ME52C-2</td>
<td>2:15 PM - 2:30 PM</td>
<td>Genji Saito, Isoji Miyagi, Yoshihisa Kawanabe</td>
<td>Depth of the magma chamber of the Kikai-Akahoya caldera-forming eruption of Satsuma-Iojima volcano, Japan, based on petrological observation and melt-inclusion analysis</td>
</tr>
<tr>
<td>ME52C-3</td>
<td>2:30 PM - 2:45 PM</td>
<td>Emily First, Julia Hammer, Philipp Ruprecht</td>
<td>Experimental constraints on dacite magma storage beneath Volcan Quipu, Chile</td>
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<tr>
<td>ME52C-4</td>
<td>2:45 PM - 3:00 PM</td>
<td>Mareil Kovacs, Alexandrina Fulp, Ioan Seghedi, Zoltan Pecskay, Masatsugu Yamamoto, Maria Jurje</td>
<td>P-T evolution of the Miocene magmatic system from Gutai Volcanic Zone (Eastern Carpathians, Romania)</td>
</tr>
<tr>
<td>ME52C-5</td>
<td>3:00 PM - 3:15 PM</td>
<td>James Jolles, Rebecca Lange</td>
<td>A re-examination of temperature and mineral-melt equilibrium across Early to Late Bishop Tuff: Insights from all possible pairs of Fe-Ti oxides per pumice clast</td>
</tr>
<tr>
<td>ME52C-6</td>
<td>3:15 PM - 3:30 PM</td>
<td>Kenneth Befus, Miguel Cisneros</td>
<td>Bringing Raman thermobarometry to the people</td>
</tr>
<tr>
<td>ME52C-7</td>
<td>3:30 PM - 3:45 PM</td>
<td>Dawid Szymański, Jörn-Frederik Wotzlaw, Ben S. Ellis, Olivier Bachmann, Marcel Guillon, Albrecht von Quadt</td>
<td>Zircon-titanite constraints on pre-eruptive storage conditions in large magma reservoirs</td>
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<tr>
<td>ME52C-8</td>
<td>3:45 PM - 4:00 PM</td>
<td>Andreas Kluegel, Markus Schmid, Simon Day, Bruno Faria</td>
<td>Magma plumbing during the 2014-2015 eruption of Fogo (Cape Verde Islands)</td>
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### PES2A: III.9 Understanding pyroclastic density currents through analysis of their deposits II
Friday August 18, 2017.  2:00 PM - 4:00 PM  Room A107-109

<table>
<thead>
<tr>
<th>Abstract Number</th>
<th>Time</th>
<th>Authors</th>
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<tbody>
<tr>
<td>PES2A-1 (invited)</td>
<td>2:00 PM - 2:15 PM</td>
<td>Eric Breard, Gert Lube, Joe Dufek, Ermanno Brosch, Tomaso Esposti Ongaro, Jim Jones</td>
<td>Constructing a benchmark for pyroclastic density currents</td>
</tr>
</tbody>
</table>
**PES2A-2**

Elodie Macorps, Sylvain J. Charbonnier

Using field investigations as proxies for interpreting the dynamics of concentrated Pyroclastic Density Currents

**PES2A-3**

Janine Krippner, Alexander Belousov, Marina Belousova, Michael Ramsey

Correlating dome collapse events with block and ash flow deposits at Shiveluch volcano, Kamchatka

**PES2A-4**

Rebecca Williams, Michael Brannek, Tiffany Barry, Michael Norry

Mapping the interaction of a pyroclastic density current with irregular topography: the chemically-zoned, low aspect-ratio Green Tuff ignimbrite, Pantelleria, Italy

**PES2A-5**

Nicholas Pollock, Britanny Brand, Olivier Roche, Pete Rowley, Damiano Saracchi, Roberto Sulzipo

Using shear-induced, wave-like depositional features to infer flow conditions of pyroclastic density currents at Mount St Helens, Washington, USA

**PES2A-6**

Guilhem Douillet, Mélanie Bouyssson, Lukas Gegg

Overturned strata in deposits of dilute pyroclastic density currents, field and analogue data

**PES2A-7**

Shinji Takarada, Hideo Hoshizumi

Depositional features and emplacement mechanism of pyroclastic density currents at Unzen, Hokkaido Komagatake and Aso volcanoes, Japan

**PES2A-8**

Olivier Roche, David Buesch, Greg Valentine

The significance of substrate-derived blocks in ignimbrites for parent flow emplacement mechanisms – Example of the Peach Spring Tuff, western USA, and experimental constraints

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**VO52A**

**Abstract**

Friday August 18, 2017.

2:00 PM - 4:00 PM

Room B110-112

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**VO52A-1**

Póður Arason, Sara Barsott, Mattia de’ Michaeli Vitturi, Sigurdur Jónsson, Hermann Arngrímsson, Baldur Bergsson, Melissa Pfeffer, Gudrun Nina Petersen

Real-Time Estimation of Mass Eruption Rate and Ash Dispersion During Explosive Volcanism

**VO52A-2**

Sonja Behnke, Ronald Thomas, Harald Edens, Alexa Van Eaton, Stephen McNutt, Cassandra Smith, Corrado Cimarelli

Volcanic Lightning Observations and Applications: Recent Progress and Future Directions

**VO52A-3**

Damiens Gaudin, Corrado Cimarelli, Sonja A. Behnke, Valeria Cigala, Harald Edens, Stephen R. McNutt, Cassandra M. Smith, Ronald Thomas

Volcanic lightning vs. plume dynamics: Integration of multi-parametric observations from the explosive activity of Sakurajima Volcano (Japan)

**VO52A-4**

Alexa Van Eaton, David Schneider, Peter Cervelli, Robert Holzworth, John Lyons, Matthew Haney, Kristi Wallace, David Fee, Larry Mastin

Volcanic lightning during the shallow submarine eruption of Bogoslof volcano, Alaska

**VO52A-5**

David Schneider, Michael Pavolinos, Alexa Van Eaton, Kristi Wallace

Characteristics of volcanic clouds from a water-rich eruptive process: Satellite observations of the 2016-2017 eruption of Bogoslof volcano, Alaska

**VO52A-6**

Michael Fromm

On Being Prepared for the Next Big Volcanic Eruption via Syngistic Satellite Remote Sensing

**VO52A-7**

Franck Donnadieu, Valentin-Freret-Logeret, Julien Delanoë, Jean-Paul Vinson, Thierry Latchimy, Frédéric Peyrin, Claude Nürnberg, Christophe Caudoux

The mass load of Strombolian ash plumes: first retrievals from a mm-wave radar

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**VH52A**

**Abstract**

Friday August 18, 2017.

2:00 PM - 4:00 PM

Room B117-119

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**VH52A-1**

Shaull Hurwitz, Steven E. Ingebritsen, Mark E. Reid, Jessica L. Ball, Joshua M. Taron, Carol A. Finn, Paul A. Bedrossian

Groundwater in stratovolcanoes of the Cascade Range, USA – what we do and do not know

**VH52A-2**

Christopher Waythomas, David Schneider, Kim Van Eaton, William Burton, Cheryl Cameron, Peter Cervelli, Michelle Coombs, Pavel Izbezk, Jessica Larsen, Larry Mastin, Robert McEgin, Janet Schafer, Alexey Van Eaton, Kristy Wallace, Rick Wessels

2016-17 Shallow Submarine Eruption of Bogoslof Volcano, Alaska—Preliminary Observations and Eruptive Products at a Back-Arc Volcano in the Southern Bering Sea

**VH52A-3**

Geof Kilgour, Ian Hamling, Ben Kennedy, Gert Lube, Stephanie Gates, Jonathan Proctor

Understanding small, phreatic eruptions: Ballistic ejecta, dilute pyroclastic currents and delineating ejecta from space after the 27th April, 2016 eruption of White Island

**VH52A-4**

Bettina Schue, Cristian Montanaro, Donald B. Dingwell

Phreato-thermal hydrothermal eruptions: Insights into energy budget and eruption dynamics based on field and laboratory studies

**VH52A-5**

Joseph Walder

Energetics of Surtseyan eruptions: insights from the fluid dynamics and phenomenology of underwater chemical explosions

**VH52A-6**

Greg Valentine, Alison Graettinger, James White, Pierre-Simon Ross

Updates to concepts on phreatomagmatic maar-diatremes and their pyroclastic deposits

**VH52A-7**

Christopher W. Hamilton

Explosive Lava–Water Interactions: Tephrostratigraphy and Eruption Processes

**VH52A-8**

Frances Boreham, Katharine Cashman, Alison Rust

Linking Inflated Flow Margins, Lava-Water Interactions and Rootless Cone Formation

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**VH52B**

**Abstract**

Friday August 18, 2017.

2:00 PM - 4:00 PM

Room B1110-112

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**VH52B-1**

Judy Fierstein

Multi-faceted tephra studies and mapping as complementary tools in establishing eruptive histories of explosive volcanic centers

**VH52B-2**

Kristi Wallace, Leslie Hayden, Janet Schafer, Katherine Mulliken, Cheryl Cameron, Christina Neal

Tephra marker horizons of the Aleutian Arc – A tephrochronology of largest eruptions in Alaska

**VH52B-3**

Victoria Smith, Madeleine Humphreys, Michael Stock, Roberto Iba, Takehiko Suzuki, Danielle McLean, Paul Albert

An apatite for tephrochronology

**VH52B-4**

Maria Luisa Tejada, Sandra Catane, Catherine Lit, Allan Mandanas, Hannah Mirabueno, Renato Solidum, Maria Carmencita Arpa, Alyssa Peleo-Allamay, Allan Fernando

Tracing large volcanic eruptions from marine tephra layers in Philippine marginal basins

**VH52B-5**

Christina Bonanati, Heidi Wehrmann, Raj Hoernie, Steffen Kutterolf, Maxim Portnyagin, Maryam Mirzabolo, Dirk Nürnberg, Karen Strebleow

A 68,000 year tephra record in marine sediment cores offshore southeast Iceland

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### VHS2B-6
**3:30 PM - 3:45 PM**
Paul Albert, Victoria Smith, Emma Tomlinson, Takehiko Suzuki, Masataka Yamada, Takeshi Nakagawa, Suigetsu 2006 Project Members

Constraints on the tempo of volcanism at Daisen and Sambe volcanoes (SW Japan) from the Lake Suigetsu sedimentary archive

### VHS2B-7
**3:45 PM - 4:00 PM**
Matthew Zimmerer, Matthew Heizler, William McIntosh

An age-based assessment of volcanic hazards within the Rio Grande Rift and along the Jemez Lineament, New Mexico, U.S.A.

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### VSS2A: VII.3 Start spreading the news: Diverse and effective methods for communicating about volcanoes II
**Friday August 18, 2017. 2:00 PM - 4:00 PM Room A106**

<table>
<thead>
<tr>
<th>Abstract Number</th>
<th>Time</th>
<th>Authors</th>
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<tbody>
<tr>
<td>VSS2A-1</td>
<td>2:00 PM - 2:15 PM</td>
<td>Nicolas Fournier, Bradley J Scott</td>
<td>Volcanic Alert Bulletins 2.0: integrated volcano communication in New Zealand</td>
</tr>
<tr>
<td>VSS2A-2</td>
<td>2:15 PM - 2:30 PM</td>
<td>Wendy Stovall, Elizabeth Westby</td>
<td>Keeping It Real with @USGSVolcanoes</td>
</tr>
<tr>
<td>VSS2A-4</td>
<td>2:45 PM - 3:00 PM</td>
<td>David Pyle</td>
<td>Curating volcanoes: sharing stories to build engagement</td>
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<tr>
<td>VSS2A-5</td>
<td>3:00 PM - 3:15 PM</td>
<td>Joseph Bard</td>
<td>What’s the story with Mount Rainier? Taking a narrative approach to explaining Mount Rainier’s volcanic hazards to general audiences using ESRI Story Maps</td>
</tr>
<tr>
<td>VSS2A-6</td>
<td>3:15 PM - 3:30 PM</td>
<td>Rachel Teasdale, Kastie van der Krafft, Michael Poland</td>
<td>Use of real data in the classroom: Monitoring Mount St. Helens 2004 dome growth</td>
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### VSS2B: VII.4 Integrated volcanic risk assessment II
**Friday August 18, 2017. 2:00 PM - 4:00 PM Room B116**

<table>
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<tr>
<th>Abstract Number</th>
<th>Time</th>
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<tbody>
<tr>
<td>VSS2B-1</td>
<td>2:00 PM - 2:15 PM</td>
<td>Thomas Wilson, Carol Stewart, Natalia Deligne, Graham Leonard, Susanna Jenkins, Joshua Hayes, Daniel Blake, Alec Wild</td>
<td>Assessing Volcanic Impacts to Society</td>
</tr>
<tr>
<td>VSS2B-2</td>
<td>2:15 PM - 2:30 PM</td>
<td>Paul Taylor</td>
<td>The 1946 Eruption of Niuafo’ou Island, Kingdom of Tonga: Was an Evacuation Really Warranted?</td>
</tr>
<tr>
<td>VSS2B-3</td>
<td>2:30 PM - 2:45 PM</td>
<td>Emma Singh, Tetsuya Okada, Christina Magill</td>
<td>Exposure of roads to volcanic ash from a future eruption from Mount Fuji, Japan: Implications for evacuation</td>
</tr>
<tr>
<td>VSS2B-4</td>
<td>2:45 PM - 3:00 PM</td>
<td>Sebastien Blass, Andrea Todde, Rafaello Gioni, Marco Pistolesi, Nobuo Geshi, Costanza Bonadonna</td>
<td>Potential impacts of tephra fallout from a Plinian eruption at Sakurajima volcano, Japan</td>
</tr>
<tr>
<td>VSS2B-5</td>
<td>3:00 PM - 3:15 PM</td>
<td>Caroline Michellier, Florian Barette, Sylvain Kulimushi Matabaro, Innocent Kadekere, Marcelin Bahati Bifulko, Delphine Ciza Assani, Fanny Hage, Éléonore Wolff, Matthieu Kernyn</td>
<td>Assessing lava flow risk at Nyiragongo volcano, DR Congo. Part 1: Vulnerability of population and assets in Goma</td>
</tr>
<tr>
<td>VSS2B-6</td>
<td>3:15 PM - 3:30 PM</td>
<td>Josh Hayes, Thomas Wilson, Natalia Deligne, Graham Leonard</td>
<td>Embracing deep uncertainties to transparently develop plausible scenarios for volcanic impact and risk assessment</td>
</tr>
<tr>
<td>VSS2B-7</td>
<td>3:30 PM - 3:45 PM</td>
<td>Susan Loughlin, Anna Hicks, Jenni Barclay, Roger Few, Emily Wilkinson, Richard Robertson, Patricia Mothes, Gloria Patricia Cortes</td>
<td>Integrating diverse datasets and applying new knowledge: the use of scenario exercises in the STREVA project</td>
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<tr>
<td>VSS2B-8</td>
<td>3:45 PM - 4:00 PM</td>
<td>Flavio Dobran</td>
<td>HTSUVIUS PENTALOGUE: Five key objectives for developing resilience and sustainability of populations surrounding Vesuvius</td>
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### Closing Ceremony
**Friday August 18, 2017. 4:30 AM - 5:30 AM OCC Oregon Ballroom 201-203**

Martin Streck, Jon Major, Don Dingwell, Roberto Sulipizio