



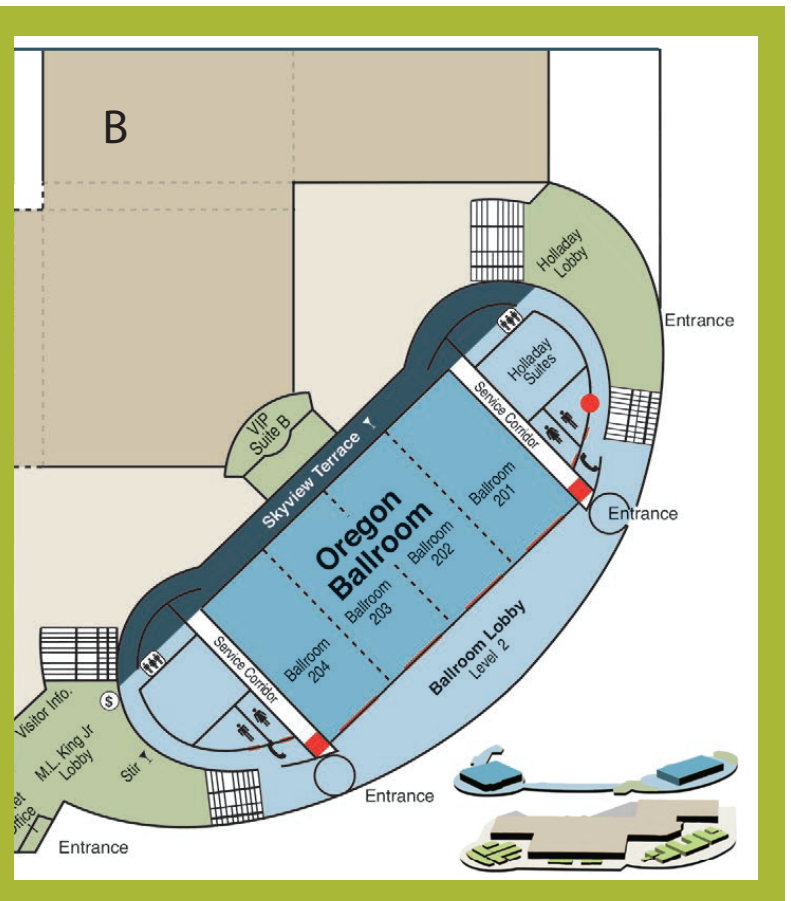
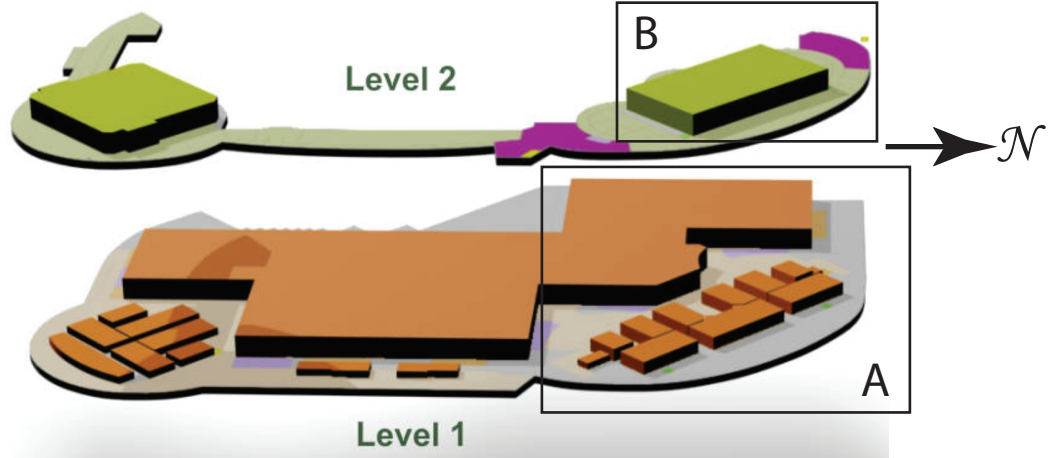
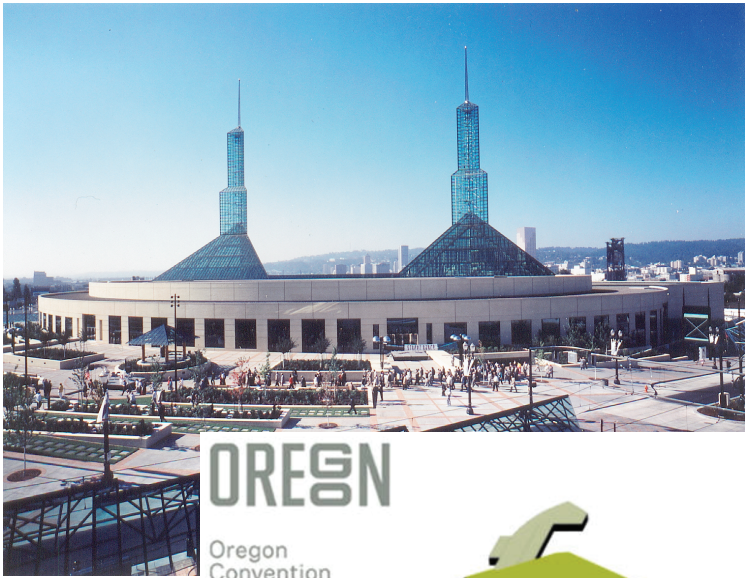
Scientific Assembly

Fostering Integrative Studies of Volcanoes

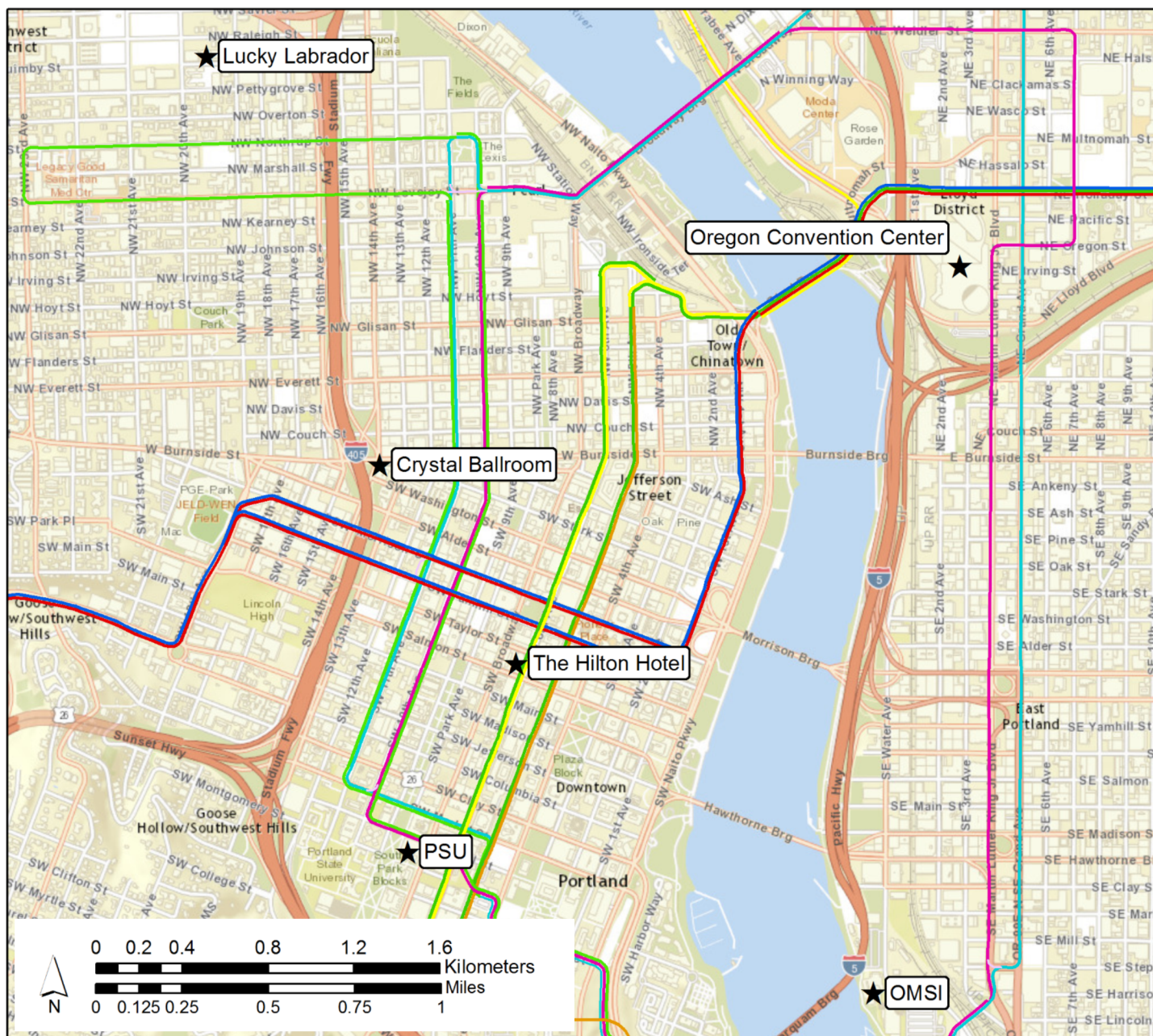


August 14-18
Portland, Oregon, U.S.A

**CONFERENCE
PROGRAM**



all information from: <https://www.oregoncc.org/> slightly modified



Legend

Metro Lines

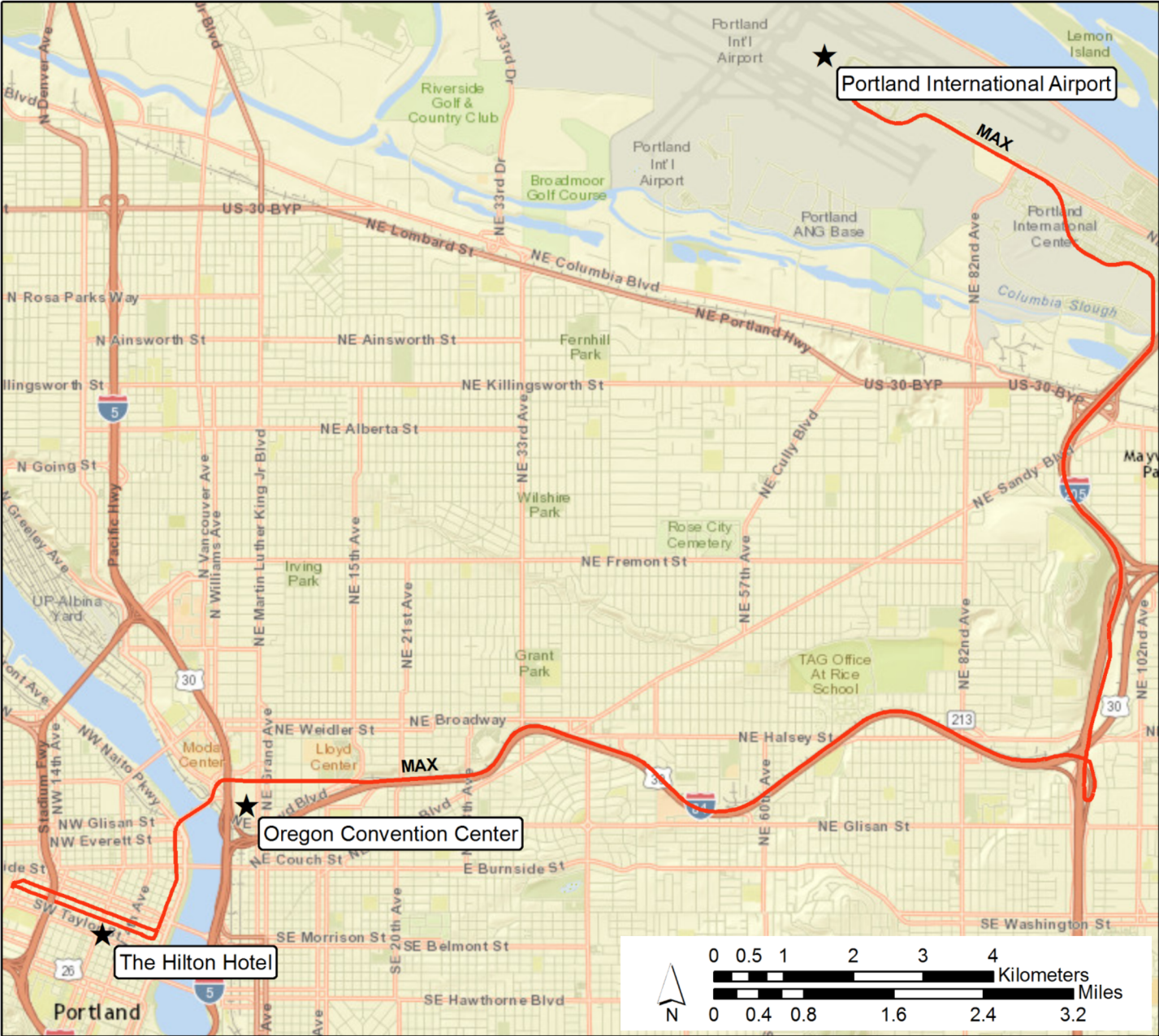
MAX-Red Line	—
MAX-Blue Line	—
MAX-Yellow Line	—
MAX-Orange Line	—
MAX-Green Line	—
Streetcar-A loop	—
Streetcar B-loop	—
Streetcar NS loop	—

Venue



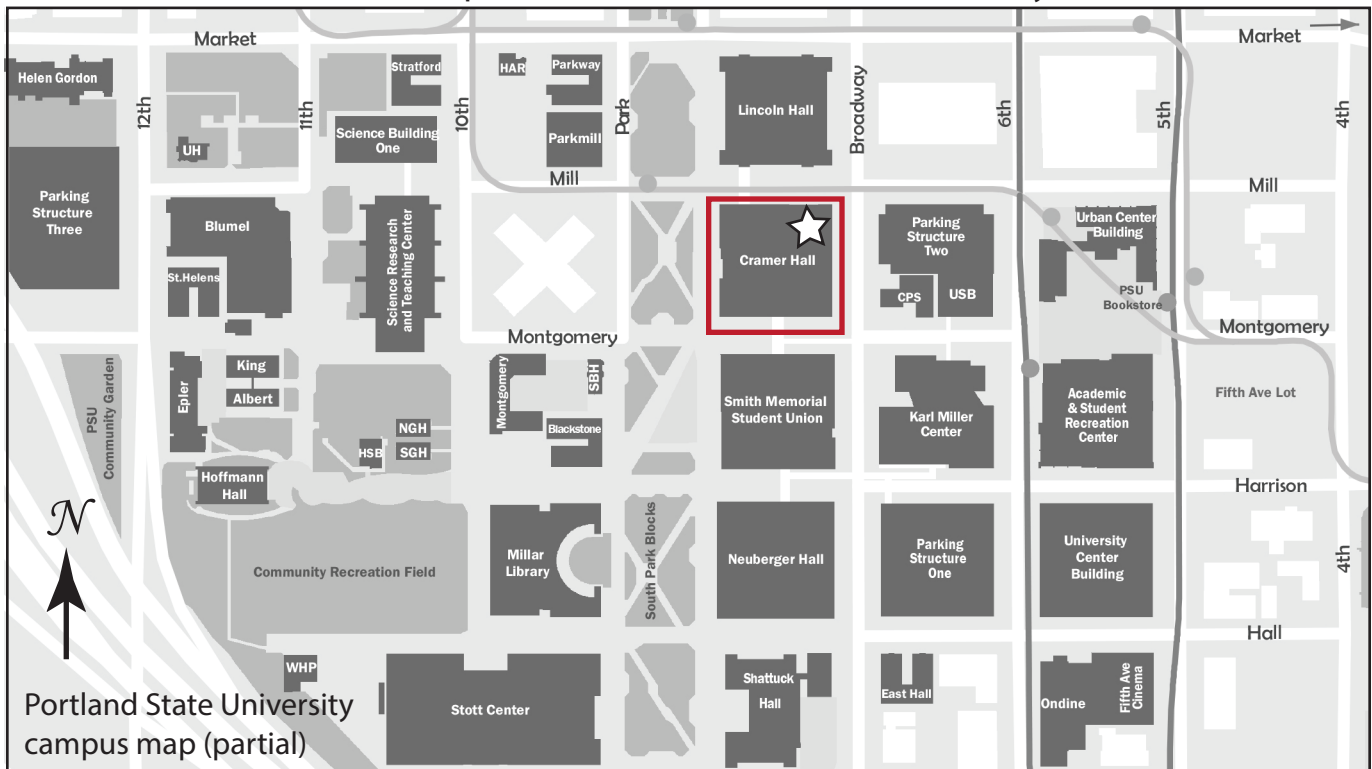
Address

Crystal Ballroom	1332 W Burnside St. Portland, OR 97209
The Hilton Hotel	921 SW 6th Ave. Portland, OR 97204
Lucky Labrador	1945 NW Quimby St, Portland, OR 97209
OMSI	1945 SE Water Ave. Portland, OR 97214
Oregon Convention Center	777 NE Martin Luther King Jr Blvd. Portland, OR 97232
PSU Geology Department	1721 SW Broadway Ave., Portland OR 97201



Legend		
Metro Lines	Venue Names	Address
MAX-Red Line	The Hilton Hotel	921 SW 6th Ave. Portland, OR 97204
	Oregon Convention Center	777 NE Martin Luther King Jr Blvd. Portland, OR 97232
	Portland International Airport	7000 NE Airport Way, Portland, OR 97218

Workshop locations at Portland State University



Geology Department (☆) located in NE corner of **Cramer Hall**
 - basement (street level to Lincoln Hall)

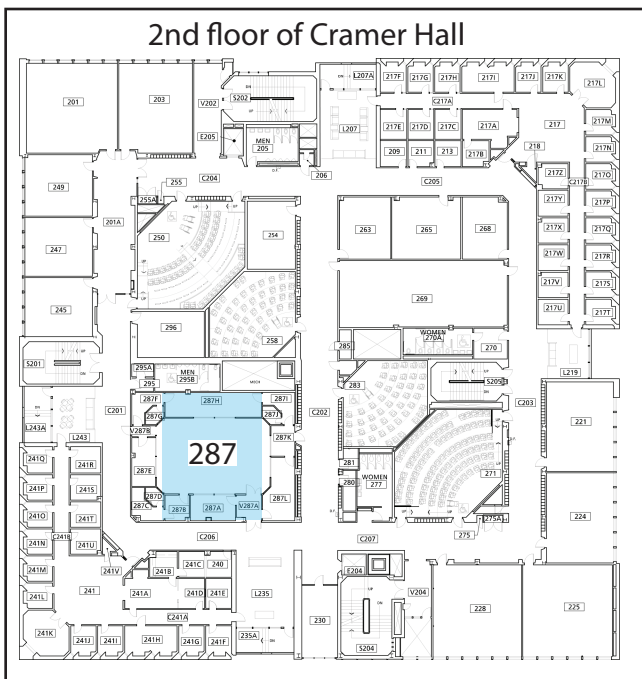
Rooms of workshops in Cramer Hall on:
 - subbasement level (**#S17, #S59**)
 - basement level (**#69**)
 - 2nd floor (**#287**)

all data from: <https://www.pdx.edu/floorplans/campus-map>
 (slightly modified)

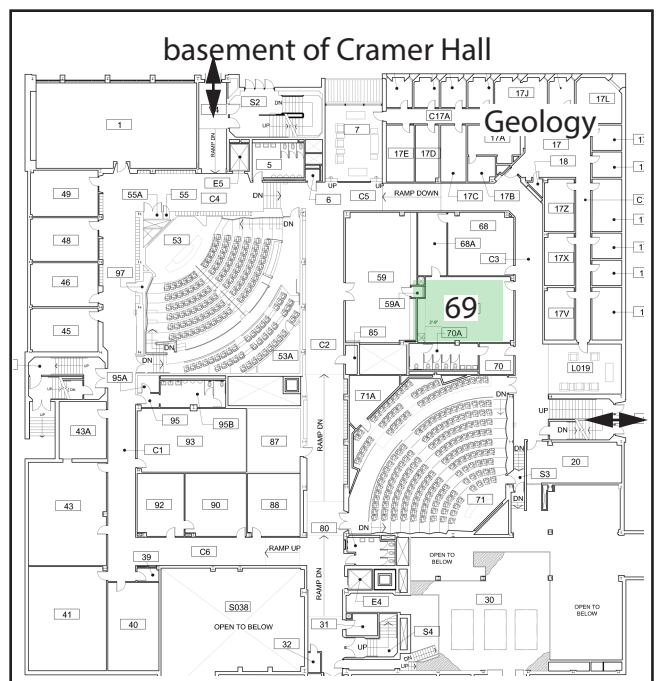
subbasement of Cramer Hall



2nd floor of Cramer Hall



basement of Cramer Hall





International Association of Volcanology
and Chemistry of the Earth's Interior

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Dear IAVCEI 2017 Scientific Assembly attendee,

We welcome you to the IAVCEI 2017 Scientific Assembly in Portland, Oregon, USA. It's been almost 30 years since the last time the Assembly was held on U.S. soil.

All committees involved in planning this meeting have worked very hard to make it a memorable event. Our theme, Fostering Integrative Studies of Volcanism, is a salute to the inter-connectivity among our sub-disciplines. Integrative studies are advancing knowledge in understanding volcanoes, from their deep mantle origins to hazardous surface processes, and the conference showcases these studies in the multitude of sessions scheduled. The theme blends well with the great diversity of volcanic processes and features found across the western United States, and in particular the Pacific Northwest, many of which are further explored by the numerous field trips associated with the conference.

The venue of Portland, Oregon, with its friendly people and its beautiful natural backdrop, including the volcanoes of the Cascades arc, beckons to be explored on foot or by streetcar. We encourage you to sample its culinary diversity served by a range of venues, from its signature 'food carts' to its high-end restaurants; to visit its public squares, the world famous rose test gardens, the Portland Zoo, the Pompeii exhibit at OMSI, or Powell's "city of books"; take in a Timbers or Thorns soccer match; or relax in some of the many brewpubs and local wineries.

We acknowledge the trust the IAVCEI leadership placed in us to organize this conference, and are exceedingly grateful for the contributions from the numerous sponsors of the conference listed in this program.

We wish everybody a successful conference and we hope that the Pacific Northwest will gain a permanent place in your heart!

Sincerely

Martin Streck and Jon Major

Co-chairs, local organizing committee



Welcome to the 2017 Scientific Assembly of IAVCEI here in Portland. Please join with me in thanking the large number of people who have organized this event - both the Program committee and the Local organisation. Such efforts always involve high energy, and occasionally high stress (!). We are grateful for your time in the service of IAVCEI.

This may well be the largest IAVCEI event you have attended. Please take advantage of the scale of this meeting and the corresponding breadth of the program. Find the time to take a step back from your specialization and gaze upon some less-familiar themes that are being presented. In doing so you will help to build the fabric of IAVCEI itself into an even more robust organisation with a well-informed, laterally-thinking membership. These are already the traditional strengths of IAVCEI, let's rejuvenate them this week.

Please be sure to attend the IAVCEI meeting and ceremony on Tuesday morning where you will hear from the president and Secretary General and where you will have an opportunity to celebrate this year's slate of Awardees and hear the reasons why they have been selected. Finally, take advantage of the fact that photos of all members of the IAVCEI executive are being prominently displayed. The intent is that you can track any of us down even more easily during the meeting. Come to any of us with your complaints, your suggestions and your aspirations. We welcome them, as we welcome you to this remarkable event.

Donald Dingwell,
President

Roberto Sulpizio,
Secretary General

RON WYDEN
OREGON

RANKING MEMBER OF COMMITTEE ON
FINANCE

221 DIRKSEN SENATE OFFICE BUILDING
WASHINGTON, DC 20510
(202) 224-5244

United States Senate
WASHINGTON, DC 20510-3703

August 2017

COMMITTEES:

COMMITTEE ON FINANCE
COMMITTEE ON BUDGET
COMMITTEE ON ENERGY & NATURAL RESOURCES
SELECT COMMITTEE ON INTELLIGENCE
JOINT COMMITTEE ON TAXATION

Welcome to the Pacific Northwest and the State of Oregon.

Along with my fellow Oregonians, I am delighted to welcome the scientific community to Portland for the 2017 Scientific Assembly of the International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI).

Our region is well-known for its volcanic and geologic activity and the insights that all of you in the scientific community bring to these hazards and their impact is of global importance.

As a Portlander, I know firsthand the impact from the 1980 eruption of Mount St. Helens, which resulted in the tragic loss of life and property and dramatically changed the view of mountains visible from our city. Human settlement is inextricably linked with tales of volcanic activity. These natural forces capture the imagination and inspire a healthy respect for their ability to shape our landscape.

The 2017 IAVCEI Scientific Assembly is a wonderful opportunity to share information and highlight your essential research. The United States federal government has a long-standing partnership with national research universities to investigate, map, and understand volcanic activity and associated hazards.

I am proud of our nation's contributions, including Oregon's own research universities, and thank you for traveling to Oregon to share your work and intellectual curiosity.

Best wishes for a successful assembly.

Sincerely,



Ron Wyden
US Senator, Oregon

911 NE 11TH AVENUE
SUITE 630
PORTLAND, OR 97232
(503) 326-7525

405 EAST 8TH AVE
SUITE 2020
EUGENE, OR 97401
(541) 431-0229

SAC ANNEX BUILDING
105 FIR ST
SUITE 201
LA GRANDE, OR 97850
(541) 962-7691

U.S. COURTHOUSE
310 WEST 6TH ST
ROOM 118
MEDFORD, OR 97501
(541) 858-5122

THE JAMISON BUILDING
131 NW HAWTHORNE AVE
SUITE 107
BEND, OR 97701
(541) 330-9142

707 13TH ST, SE
SUITE 285
SALEM, OR 97301
(503) 589-4555

[HTTP://WYDEN.SENATE.GOV](http://wyden.senate.gov)

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IAVCEI 2017 Scientific Assembly Sponsors

The following universities and organizations generously sponsored the 2017 IAVCEI Scientific Assembly by providing financial and in-kind support:

**Portland State University
U. S. Geological Survey
Central Washington University
Oregon State University
University of Idaho
University of Oregon**

and

International Association of Volcanology and Chemistry of Earth's Interior

The organizing committee gratefully acknowledges financial support from the following organizations:

**United States Forest Service Mount St. Helens National Volcanic Monument
ESRI**

and

**American Geophysical Union
Frontiers
Geometrics
Google Earth
Journal of Petrology (Oxford University Press)
Nanometrics
National Technological University, Earth Observatory of Singapore
Nature Communications
Nature Geoscience
Springer
Wiley**

The organizing committee thanks the following local businesses for their generous support:

**Rogue Ales
Caldera Brewing Company
City of Portland
Deschutes Brewery
Lucky Labrador Brewing Company
Mazama Brewing
Travel Portland**

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University



University of Idaho



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PETROLOGY



WILEY



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IAVCEI 2017 Scientific Assembly Committee Membership

Organizing Committee

Martin Streck (chair)	Portland State University
Jon Major (co-chair)	U.S. Geological Survey
Wendy Bohrsen	Central Washington University
Shan de Silva	Oregon State University
Dennis Geist	University of Idaho
James Jackson	Portland State University
Mike Poland	U.S. Geological Survey
Mike Sawlan	U.S. Geological Survey

Scientific Program Committee

Kathy Cashman (chair)	University of Bristol
Bill Chadwick	Oregon State University
Luca Caricchi	University of Geneva
Jorge Clavero	Universidad Mayor
Marie Edmonds	University of Cambridge
Shane Cronin	Massey University
Guido Giordano	Roma Tre University
Einat Lev	Columbia University
Diana Roman	Carnegie Institute
Freysteinn Sigmundsson	University of Iceland
Shinji Takarada	Geological Survey of Japan
Paul Wallace	University of Oregon
Heather Wright	U.S. Geological Survey

Field Trip Committee

Mike Dungan (chair)	University of Oregon
Cynthia Gardner (co-chair)	U.S. Geological Survey
Judy Fierstein	U.S. Geological Survey
Dennis Geist	University of Idaho
Anita Grunder	Oregon State University
John Wolff	Washington State University

Early Career Researcher Activities Committee

Mike Poland (chair)	U.S. Geological Survey
Hannah Dietterich	U.S. Geological Survey
Sam Poppe	Vrije Universiteit Brussel
Charlotte Vye-Brown	British Geological Survey

Workshop Committee

Wendy Bohrsen (chair)	Central Washington University
Charles Conner	University of South Florida
Scott Henderson	Universidad de los Andes
Morgan Salisbury	Lower Columbia College
Diana Roman	Carnegie Institute

IAVCEI 2017 Scientific Assembly Workshop Conveners

Best Practices in Tephra Collection, Analysis, and Reporting: Leading Toward Better Tephra Databases

Kristi Wallace	U.S. Geological Survey
Steve Kuehn	Concord University
Marcus Bursik	University of Buffalo
Andrei Kurbatov	University of Maine

Communicating Science for Impact

Beth Bartel	UNAVCO
-------------	--------

Modeling Volcanic Processes Using MELTS

Guilherme Gualda	Vanderbilt University
Mark Ghiorso	OFM Research

MSNoise Workshop: From Noise to Data

Corentin Caudron	Université Libre de Bruxelles; Royal Observatory of Belgium
Thomas Lecocq	Royal Observatory of Belgium

Navigating the Publication Process: Best Publishing Practices in Volcanology and the Physical Sciences for Early-Career Scientists

Shan de Silva	Oregon State University
Nancy Riggs	Northern Arizona University

Numerical Modeling with OpenFOAM for Volcanological Applications

Mattia de'Michieli Vitturi	INGV Pisa
Einat Lev	Lamont Doherty Earth Observatory
Hannah Dietterich	U.S. Geological Survey
Tomaso Esposti Ongaro	INGV Pisa

Promoting the Use of Satellite Observations at Volcano Observatories

Matt Pritchard	Cornell University
Juliet Biggs	University of Bristol
Simon Carn	Michigan Technological University
Julie Griswold	U.S. Geological Survey
Taryn Lopez	University of Alaska
Sue Loughlin	British Geological Survey/Global Volcano Model
Paul Lundgren	NASA/Caltech/Jet Propulsion Laboratory
Dave Schneider	U.S. Geological Survey
Greg Vaughan	U.S. Geological Survey
Christelle Wauthier	Pennsylvania State University
Robert Wright	University of Hawaii

State of the Hazard Map 3

Jan Lindsay

John Ewert

Eliza Calder

Mary Anne Thompson

University of Auckland

U.S. Geological Survey

University of Edinburgh

University of Auckland

Statistics in Volcanology: The Hazards of Lassen Volcano

Mark Bebbington

Chuck Connor

Sarah Ogburn

Patrick Whelley

Massey University

University of South Florida

U.S. Geological Survey

NASA Goddard Space Flight Center

Statistics in Volcanology: Workshop on Volcanic Record Completeness

Susanna Jenkins

Mark Bebbington

EOS

Massey University

The Magma Chamber Simulator: A Phase Equilibria Modelling Tool for Magma Recharge, Crustal Assimilation and Crystallization (RAFC)

Wendy Bohrsen

Frank Spera

Jussi Heinonen

Central Washington University

University of California, Santa Barbara

University of Helsinki

Using GPS to Monitor Volcanoes: From Field Data to Modeling

Maurizio Battaglia

Mike Lisowski

Kyle Anderson

U.S. Geological Survey; Sapienza – University of Rome

U.S. Geological Survey

U.S. Geological Survey

Using Small Unmanned Systems in Volcanology (Aka “The Drone Workshop”)

Einat Lev

Christopher Hamilton

Mike James

Lamont-Doherty Earth Observatory

University of Arizona

Lancaster University

IAVCEI 2017 Scientific Assembly Fieldtrip Leaders

A volcanic transect of the Pacific Northwest

Dennis Geist	U.S. National Science Foundation and Colgate University
John Wolff	Washington State University
Karen Harpp	Colgate University

Columbia River flood basalts, associated rhyolites, and diverse post-plume volcanism in eastern Oregon

Mark Ferns	Eastern Oregon University
Martin Streck	Portland State University
Jason McClaughry	Oregon Department of Geology and Mineral Industries

Continental arc to rift volcanism of the Southern Rocky Mountains – Southern Rocky Mountain, Taos Plateau and Jemez volcanic fields of southern Colorado and northern New Mexico, USA

Ren Thompson	U.S. Geological Survey
Kenzie Turner	U.S. Geological Survey
Peter Lipman	U.S. Geological Survey
John Wolff	Washington State University
Michael Dungan	University of Oregon
Olivier Bachmann	ETH

Crater Lake and Newberry Volcano

Heather Wright	U.S. Geological Survey
Charlie Bacon	U.S. Geological Survey
Julie Donnelly-Nolan	U.S. Geological Survey
Bob Jensen	U.S. Forest Service

Eruptive history and magmatic system of Mount Hood, Oregon

William Scott	U.S. Geological Survey
Cynthia Gardner	U.S. Geological Survey
Adam Kent	Oregon State University
Alison Koleszar	University of Texas

Exploring pyroclastic density current deposits from the 18 May 1980 eruption of Mount St Helens, Washington

Brittany Brand	Boise State University
Nicholas Pollock	Boise State University
Damiano Sarocchi	Instituto de Geología, Universidad Autónoma de San Luis Potosí
Josef Dufek	Georgia Institute of Technology
Mike Clynne	U.S. Geological Survey

Holocene Age Dike-fed silicic domes and flows in Oregon and California

Jonathan Fink
Steven Anderson

Portland State University
University of Northern Colorado

Mafic volcanism of the central Oregon Cascades

Natalia Deligne
Daniele McKay
Rick Conrey
Gordon Grant
Jim O'Connor

GNS Science
Oregon State University
Hamilton College
U.S. Forest Service
U.S. Geological Survey

Mammoth Mountain, Long Valley Caldera, and the Bishop Tuff

Wes Hildreth
Judy Fierstein

U.S. Geological Survey
U.S. Geological Survey

Monitoring the Yellowstone Caldera: Geologic history, geothermal activity, earthquakes, and ongoing unrest

Jake Lowenstern
Jamie Farrell
Lisa Morgan
Pat Shanks

U.S. Geological Survey
University of Utah
U.S. Geological Survey
U.S. Geological Survey

Mount St. Helens---Recent and ancient volcanoclastic processes and deposits

Richard Waitt
Jon Major
Alexa Van Eaton
Richard Hoblitt

U.S. Geological Survey
U.S. Geological Survey
U.S. Geological Survey
U.S. Geological Survey

Mount St. Helens: An overview of the eruptive history and petrology, tephra deposits, 1980 pyroclastic deposits and the crater

John Pallister
Heather Wright
Alexa Van Eaton
Jim Vallance
Peter Kokelaar

U.S. Geological Survey
U.S. Geological Survey
U.S. Geological Survey
U.S. Geological Survey
University of Liverpool

Quaternary volcanism on the Yellowstone Plateau

Jorge Vazquez
Mark Stelten
Ilya Bindeman
Kari Cooper

U.S. Geological Survey;
U.S. Geological Survey;
University of Oregon
University of California at Davis

Stratigraphic evolution, eruption history and structure of the Columbia River Flood-Basalt Province

Vic Camp	San Diego State University
Steve Reidel	Washington State University
Marty Ross	Northeastern University
Richard Brown	Durham University
Steve Self	U.S. Nuclear Regulatory Commission
Anita Grunder	Oregon State University

Volcaniclastic Sediments from Snow/Ice-Capped Volcanoes: Mount St. Helens and Mount Hood

Tom Pierson	U.S. Geological Survey
Lee Siebert	Smithsonian Institution
Kevin Scott	U.S. Geological Survey
Chris Harpel	U.S. Geological Survey

Volcanism and its interaction with snow and ice at Mount Rainier

Jim Vallance	U.S. Geological Survey
Tom Sisson	U.S. Geological Survey

Volcanoes of the California Cascades

Julie Donnelly-Nolan	U.S. Geological Survey
Mike Clynne	U.S. Geological Survey
Patrick Muffler	U.S. Geological Survey
Bob Christiansen	U.S. Geological Survey
Andy Calvert	U.S. Geological Survey

IAVCEI 2017 Scientific Assembly Mid-Conference Field Trip Leaders

Joe Bard
Seth Burgess
Scott Burns
Tom Casadevall
Mike Clynne
Amberlee Darold
Roger Denlinger
Angie Diefenbach
Mike Doukas
Carolyn Driedger
Molly Ellowitz
John Ewert
Cynthia Gardner
Dennis Geist
Julia Griswold

Chris Harpel
Richard Iverson
Peter Kelly
Mike Lisowski
Chris Lockett
Andy Lockhart
Jon Major
Jeff Marso
Larry Mastin
Seth Moran
Adam Mosbrucker
Jim O'Connor
John Pallister
Ben Pauk
Tom Pierson

Mike Poland
Pat Pringle
Dave Ramsey
Evelyn Roeloffs
Mike Sawlan
Willie Scott
Kurt Spicer
Don Swanson
Wes Thelen
Jim Vallance
Alexa van Eaton
Richard Waitt
Joe Walder
Ray Wells
Heather Wright

Acknowledgements

The local organizing committee would like to thank the following people for their hard work and support of the 2017 IAVCEI Scientific Assembly

Cecily Edwards
Jonathan Fink
Alisa Humphrey
Adonara Mucek

and

Lucian Cotor
Melissa Cummiskey
Hannah Dietterich
Sean Erickson
Lisa Faust
Kirsten Garland
Sara Jivanjee
Beth King
Amanda Nguyen
Barb Reed
Tim Steed
Ahrea Summers
Jacky Verna
Nancy Wright

Safety Tips

While Portland is a relatively safe city, we encourage you to always be alert to your surroundings. A few reminders for you:

- Please remember to take your badge off when you leave the Oregon Convention Center
- Travel in groups, especially at night
- Remain in well-lit, high traffic areas
- Be aware of your surroundings
- Don't hesitate to ask a uniformed officer or security professional for help or guidance
- Dial 911 for police and medical assistance
- Please inform the local organizing committee of any problems you encounter

Speaker Ready Room

Speaker Ready Room

The speaker ready room (Oregon Convention Center room A104) will be open as follows for presenters to load their oral presentations:

Sunday, August 13: 2:00 – 6:00 PM

Monday, August 14: 7:00 am – 5:00 PM

Tuesday, August 15: 7:00 am – 5:00 PM

Thursday, August 17: 7:00 am – 5:00 PM

Friday, August 18: 7:00 am – 2:00 PM

The final version of your talk must be uploaded AT LEAST 2 hours prior to your presentation.

The computers in the Speaker Ready Room will be configured with hardware and software exactly like the ones in the meeting room. If you upload your talk online, you can review your presentation in the Speaker Ready Room if you wish.

IF THE PRESENTATION DOES NOT PLAY PROPERLY IN THE PRESENTATION ROOM, IT WILL NOT PLAY PROPERLY IN THE MEETING ROOM.

If your presentation was created on a Mac or converted from another program into a PowerPoint or PDF file, we STRONGLY recommend you review it in the Speaker Ready Room.

This is where our technicians can help resolve any compatibility or formatting issues and explain the in-room setup.

AV at the OCC

Rooms will include a power point remote, laser pointer, PC Laptop and Mac Laptop, and a wired microphone at the podium that you can use at your discretion.

PLEASE OPEN KEYNOTE FILES ON THE MAC.

If you have any difficulties or need any assistance, click the **CALL FOR HELP** button and a technician will be immediately sent to your room.

Wednesday Mid-Conference Field Trip

Your assigned trip name, bus #, and lunch choice are printed on the back of your conference badge. Field trips were assigned on a first-come, first-served basis, and cannot be changed. All field trips will depart from the north side of the Oregon Convention Center along NE Holladay Street, immediately adjacent to the MAX light rail station. Please arrive 15 minutes prior to your scheduled departure so that the bus can be loaded and leave on time. If you miss your assigned departure, it may not be possible to accommodate you on a later trip. All trips will last approximately 8-10 hours and will return to the Oregon Convention Center in the afternoon or early evening (depending on the departure time).



Lunch, snacks, and some water will be provided, but carrying additional food and water (at least 2 liters) is a good idea. Bring sun protection (hat, sunscreen, etc.) and a light jacket (or possibly a raincoat, weather depending). Tennis shoes or light hiking boots are recommended for all trips; sandals and open-toed footwear are not advised.

All times listed below are final departure times. Please arrive 15 minutes prior to your scheduled departure so that the bus can be loaded and leave on time.

Mount Hood (Trip capacity 150 people)

This trip will examine eruptive history and volcano hazards of Mount Hood. Minor hiking.

Hood-1	7:30 AM
Hood-2	8:15 AM
Hood-3	9:00 AM

Columbia River Gorge (Trip capacity 150 people)

This trip will discuss ancient and modern landslides, the great late-Pleistocene Missoula Floods, and volcanic geology of the scenic Columbia River Gorge. Minor hiking.

Gorge-1	8:00 AM
Gorge-2	8:45 AM
Gorge-3	9:30 AM

Mount St. Helens All options to visit Mount St. Helens National Volcanic Monument stop at the Castle Lake or Elk Rock overlooks to discuss the 1980 eruption, and they will visit the Johnston Ridge Observatory to discuss both recent and prehistoric eruptions, monitoring, and current activity.

Option A: This trip will focus on geomorphic response and consequent mitigation strategies. It will visit the massive US Army Corps of Engineers sediment retention structure. Trip will involve minor hiking with little elevation gain. (Trip capacity 200 people)

MSH-A-1	8:00 AM
MSH-A-2	8:30 AM
MSH-A-3	9:00 AM
MSH-A-4	9:30 AM

Option B: This trip will focus on 1980 debris-avalanche geology and prehistoric eruptive activity as seen along the Hummocks Trail, a 4 km (2.5 mi) hike with up to 75 m elevation gain and loss. (Trip capacity 300 people)

MSH-B-1	7:30 AM
MSH-B-2	7:45 AM
MSH-B-3	8:15 AM
MSH-B-4	8:45 AM
MSH-B-5	9:15 AM
MSH-B-6	10:00 AM

Option C: This trip will address the 1980 eruption, lava-dome building in 1980-86 and 2004-08, pre-historic eruptions, and current monitoring. The hike will extend 8 km (5 mi) from Johnston Ridge Observatory to the Hummocks Trail, with an elevation loss of 500 m. (Trip Capacity 300 people)

MSH-C-1	7:30 AM
MSH-C-2	8:00 AM
MSH-C-3	8:45 AM
MSH-C-4	9:15 AM
MSH-C-5	9:45 AM
MSH-C-6	10:15 AM

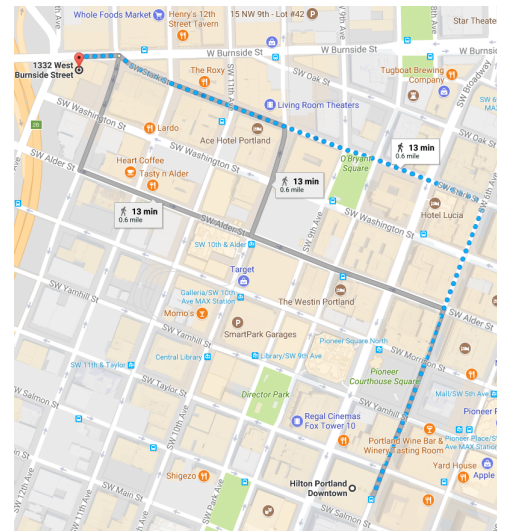
Conference Gala with Portland's Quintessential Hometown Band

We are pleased that Pink Martini will be performing at the conference gala. There is no better group to celebrate Portland and celebrate the world's greatest international scientific organization.

“PINK MARTINI IS A ROLICKING AROUND-THE-WORLD MUSICAL ADVENTURE... IF THE UNITED NATIONS HAD A HOUSE BAND IN 1962, HOPEFULLY WE'D BE THAT BAND.”– THOMAS LAUDERDALE, BANDLEADER/PIANIST

The conference gala will be held on Friday at the Crystal Ballroom at 1332 NW Burnside. The doors open at 7:00 PM. The meeting will pay for drinks and finger food to start, then when we run out of money, you can buy more for your friends.

Make sure you bring your badge – required for entry!



PINK MARTINI

General Schedule

Dates	Activities
Monday August 7 to Sunday August 13	Pre-conference field trips
Saturday, August 12	Pre-conference workshops
Sunday, August 13	Pre-conference workshops, conference icebreaker
Monday, August 14	Opening ceremony, plenary, oral and poster sessions, lunch and evening events
Tuesday, August 15	Award presentations, oral and poster sessions, lunch and evening events
Wednesday, August 16	Mid-conference field trips, evening events
Thursday, August 17	Plenary, oral and poster sessions, lunch and evening events
Friday, August 18	Plenary and oral sessions, lunch, closing ceremony, and conference gala
Saturday, August 19	Post-conference workshops
Saturday August 19 to Friday August 25	Workshop at Lassen and post-conference field trips

List of Plenary and Lunch Keynote Talks

Monday, August 14: OCC Oregon Ballroom 201-203

Plenary Keynote (8:30 to 10:30 am): Anita Grunder—*Legacy of Cenozoic Volcanism in the Pacific Northwest: One of Myriad Versions*

Plenary Keynote (8:30 to 10:30 am): Ray Wells—*Cenozoic Tectonic Evolution of the Cascadia Convergent Margin, Western North America*

Lunch Keynote (1:30 to 2:15 PM): John Pallister—*The Volcano Disaster Assistance Program (VDAP): Humanitarian Assistance and Science Since 1986*

Tuesday, August 15: OCC Oregon Ballroom 201-203

Lunch Keynote (1:30 to 2:15 PM): Jim O'Conner—*Columbia River versus the Cascade Range Volcanic Arc—The Columbia River Gorge, Cataclysms, and Cultures*

Thursday August 17: OCC Oregon Ballroom 201-203

Plenary Keynote (8:30 to 10:00 am): Brandon Schmandt—*Advancing Volcano Seismology with Large-N Seismic Array*

Plenary Keynote (8:30 to 10:00 am): Bill Chadwick—*Axial Seamount: Recent Results from the Most Active Volcano in the US Pacific Northwest*

Friday August 18: OCC Oregon Ballroom 201-203

Plenary Keynote (8:30 to 10:00 am): Vickie McConnell—*Interfacing Science with Government: You Don't Always Get What You Want*

Plenary Keynote (8:30 to 10:00 am): Peter Frenzen—*Interfacing with the Public: Lessons Learned from 30 Years of Science Messaging at Mount St. Helens*

Lunch Keynote (1:00 to 1:45 PM): Patricia Mothes—*Lessons Learned from Six Volcano Crises in Ecuador by the IGEPN*

Assembly Venues and Daily Schedules

Assembly Venues

Oregon Convention Center, (OCC), 777 NE Martin Luther King, Jr. Boulevard
Hilton Portland Downtown (Hilton), 921 SW Sixth Avenue
Buckman Public House, 1310 SE Stark Street
Crystal Ballroom, 1332 W Burnside Street
Lucky Labrador Beer Hall (Lucky Lab, Quimby Location), 1945 NW Quimby Street
Oregon Museum of Science and Industry (OMSI), 1945 SE Water Avenue
Portland State University, Department of Geology, Cramer Hall, 1721 SW Broadway Avenue
Portland State University, Native American Student and Community Center, 710 SW Jackson Street
Rock Bottom Brew Pub, 206 SW Morrison Street

Saturday, August 12

Event	Contact/Convener	Time	Location
Using GPS To Monitor Volcanoes: From Field Data to Modeling	Maurizio Battaglia, Mike Lisowski, Kyle Anderson	8:30 am to 5:30 PM	Portland State University, Cramer Hall, room 69
State of the Hazard Map 3	Jan Lindsay, John Ewert, Eliza Calder, Mary Anne Thompson	8:30 am to 5:30 PM	Portland State University, Cramer Hall, S-17
MSNoise Workshop: From Noise to Data	Corentin Caudron, Thomas Lecocq	8:30 am to 5:30 PM	Portland State University, Cramer Hall, room 287
Modeling Volcanic Processes Using MELTS	Guilherme Gualda, Mark Ghiorso	8:30 am to 5:30 PM	Hilton Portland Downtown Forum Suite
Promoting the Use of Satellite Observations at Volcano Observatories	Matt Pritchard, Juliet Biggs, Simon Carn, Francisco Delgado, Julie Griswold, Scott Henderson, Taryn Lopez, Paul Lundgren, Kevin Reath, Dave Schneider, Greg Vaughan, Christelle Wauthier	8:30 am to 5:30 PM	Hilton Portland Downtown Council Suite
The Magma Chamber Simulator: A Phase Equilibria Modelling Tool for Magma Recharge, Crustal Assimilation and Crystallization (RAFC)	Wendy Bohrsen, Frank Spera, Jussi Heinonen	8:30 am to 5:30 PM	Hilton Portland Downtown Directors Suite

Sunday, August 13

Event	Contact/Convener	Time	Location
Communicating Science for Impact ¹	Beth Bartel	8:30 am to 12:00 PM	Portland State University, Native American Student and Community Center, room 110
Statistics in Volcanology: Workshop on Volcanic Record Completeness	Susanna Jenkins, Mark Bebbington	8:30 am to 5:30 PM	Portland State University, Cramer Hall, S-59
Using GPS To Monitor Volcanoes: From Field Data to Modeling	Maurizio Battaglia, Mike Lisowski, Kyle Anderson	8:30 am to 5:30 PM	Portland State University, Cramer Hall, room 69
State of the Hazard Map 3	Jan Lindsay, John Ewert, Eliza Calder, Mary Anne Thompson	8:30 am to 5:30 PM	Portland State University, Cramer Hall, S-17
MSNoise Workshop: From Noise to Data	Corentin Caudron, Thomas Lecocq	8:30 am to 5:30 PM	Portland State University, Cramer Hall, room 287
Using Small Unmanned Systems in Volcanology (Aka "The Drone Workshop")	Einat Lev, Christopher Hamilton, Mike James	8:30 am to 5:30 PM	Hilton Portland Downtown Studio Suite
Modeling Volcanic Processes Using MELTS	Guilherme Gualda, Mark Ghiorso	8:30 am to 5:30 PM	Hilton Portland Downtown Forum Suite
Promoting the Use of Satellite Observations at Volcano Observatories	Matt Pritchard, Juliet Biggs, Simon Carn, Julie Griswold, Taryn Lopez, Sue Loughlin, Paul Lundgren, Dave Schneider, Greg Vaughan, Christelle Wauthier, Robert Wright	8:30 am to 5:30 PM	Hilton Portland Downtown Council Suite
The Magma Chamber Simulator: A Phase Equilibria Modelling Tool for Magma Recharge, Crustal Assimilation and Crystallization (RAFC)	Wendy Bohrson, Frank Spera, Jussi Heinonen	8:30 am to 5:30 PM	Hilton Portland Downtown Directors Suite

MORE SUNDAY EVENTS NEXT PAGE

Sunday, August 13 (continued)

Event	Contact/Convener	Time	Location
Navigating the Publication Process: Best Publishing Practices in Volcanology and the Physical Sciences for Early-Career Scientists	Nancy Riggs, Shan de Silva	2:00 to 5:00 PM	Portland State University, Native American Student and Community Center, room 110
Onsite Registration and Badge/Package Pickup		2:00 to 6:00 PM	OCC Prefunction A
Speaker Ready Room		2:00 to 6:00 PM	OCC A104
Pre-registration Package and Badge Pickup		3:00 to 7:00 pm	Hilton Foyer outside Pavilion Ballroom (Plaza Level)
AV Training for Student Volunteers		3:00 PM	OCC A105
Meeting: IAVCEI Executive Board	Roberto Sulpizio (roberto.sulpizio@uniba.it)	3:30 to 5:30 PM	Hilton Portland Downtown Executive Suite
Conference Icebreaker		5:00 to 7:00 PM	Hilton, Pavilion Ballroom (Plaza Level)

¹ Interactive Workshop: Communicating Science for Impact

Effective communication skills enable scientists to engage non-experts, inform public opinion and policymakers, inspire the next generation of scientists and voters, and improve our own research process. This workshop takes a hands-on approach to learning the tricks of science communication, focusing on science communication as a conversation. The skills practiced can be applied to all channels of communication, from a public lecture to a social media feed.

Monday, August 14

Event	Contact/Convener	Time	Location
Onsite Registration and Badge/packet Pickup		7:00 am to 4:00 PM	OCC Prefunction A
Speaker Ready Room		7:00 am to 5:00 PM	OCC A104
Opening Ceremony and Plenary Session <i>Anita Grunder—Legacy of Cenozoic Volcanism in the Pacific Northwest: One of Myriad Versions</i> <i>Ray Wells—Cenozoic Tectonic Evolution of the Cascadia Convergent Margin, Western North America</i>	Jon Major, Wendy Bohrson	8:30 to 10:30 am	OCC Oregon Ballroom 201-203
Break		10:30 to 11:00 am	OCC Prefunction A
Oral Sessions		11:00 am to 1:00 PM	OCC A105, A106, A107-109, B110-112, B113, B114-115, B116, B117-119, Oregon Ballroom 201-203
Lunch		1:00 to 2:30 PM	
Lunch Keynote: John Pallister— <i>The Volcano Disaster Assistance Program (VDAP): Humanitarian Assistance and Science Since 1986</i>	Jon Major	1:30 to 2:15 PM	OCC Oregon Ballroom 201-203
Meeting: Cities and Volcanoes Commission	Graham Leonard (G.Leonard@gns.cri.nz)	1:15 to 1:45 PM	OCC A106
Meeting: Commission on Volcano Geodesy	Mike Poland (mpoland@usgs.gov)	1:15 to 2:15 PM	OCC A105
Hazagora Game Session ²	Sam Poppe (sam35poppe@gmail.com) Sophie Mossoux (sophie.mossoux@vub.be)	1:15 to 2:15 PM	OCC A103

MORE MONDAY EVENTS NEXT PAGE

Monday, August 14 (continued)

Event	Contact/Convener	Time	Location
Oral Sessions		2:30 to 4:30 PM	OCC A105, A106, A107-109, B110-112, B113, B114-115, B116, B117-119, OCC Oregon Ballroom 201-203
Poster Sessions		4:30 to 6:30 PM	OCC Exhibit Hall A
Meeting: IAVCEI Commissions Meeting with Executive Committee	Shan de Silva (desilvas@geo.oregonstate.edu)	6:30 to 7:15 PM	OCC A106
Meeting: IAVCEI Commission on Volcano Geoheritage and Protected Volcanic Landscapes (VGPL)	Thomas Casadevall (tcasadevall@usgs.gov)	6:45 to 8:15 PM	OCC A105
Early Career Social	Mike Poland (mpoland@usgs.gov)	7:00 to 9:00 PM	Hilton Skyline Ballroom, 23 rd Floor
Meeting: Kawah Ijen	Kim Berlo (kim.berlo@mcgill.ca), Corentin Caudron (corentin.caudron@gmail.com), Heather Wright (hwright@usgs.gov), Peter Kelly (pkelly@usgs.gov)	7:00 to 9:00 PM	Lucky Lab, Quimby Location

² HAZAGORA is an educational board game that raises awareness about geological hazards. The game aims to let people discover key information about hazards; to increase awareness about the impacts of the hazards and the importance of resources accessibility; and to let them experience different risk reduction strategies. During the game, players embody a community living on the island that they have to feed, develop and protect against geological hazards (earthquake, tsunami, lava flow and volcanic ash fall). In this context, players virtually experience the hazard impacts and they are directly confronted with the implications of decisions taken during the game. Moreover, players come to realize that what they lived in the game reflects situations in real life and that prevention measures are important to take both at a personal and at a community level. If you want to see if you can also survive the next disaster, please, join us to play and try HAZAGORA!

Tuesday, August 15

Event	Contact/Convener	Time	Location
Onsite Registration and Badge/Package Pickup		7:30 am to 4:00 PM	OCC Prefunction A
Speaker Ready Room		7:00 am to 5:00 PM	OCC A104
Awards Ceremony	Shan de Silva	8:30 to 10:30 am	OCC Oregon Ballroom 201-203
Break		10:30 to 11:00 am	OCC Prefunction A
Oral Sessions		11:00 am to 1:00 PM	OCC A105, A106, A107-109, B110-112, B113, B114-115, B116, B117-119, OCC Oregon Ballroom 201-203
Lunch		1:00 to 2:30 PM	
Interactive Workshop: Communicating for the Public ³	Beth Bartel (bartel@unavco.org)	1:15 to 2:15 PM	OCC A103
Meeting: COMSOL Multiphysics in Volcanology ⁴	James Hickey (J.Hickey@exeter.ac.uk)	1:15 to 2:15 PM	OCC A105
Lunch Keynote: Jim O'Conner— <i>Columbia River versus the Cascade Range Volcanic Arc—The Columbia River Gorge, Cataclysms, and Cultures</i>	Jon Major	1:30 to 2:15 PM	OCC Oregon Ballroom 201-203
Oral Sessions		2:30 to 4:30 PM	OCC A105, A106, A107-109, B110-112, B113, B114-115, B116, B117-119, OCC Oregon Ballroom 201-203
Poster Sessions		4:30 to 6:30 PM	OCC Exhibit Hall A

MORE TUESDAY EVENTS NEXT PAGE

Tuesday, August 15 (continued)

Event	Contact/Convener	Time	Location
Meeting: Large Igneous Provinces Commission	Cole Kingsbury (thecgkings317@gmail.com) Ingrid Ukstins-Peate (ingrid-peate@uiowa.edu)	6:45 to 7:45 PM	OCC A107-109
Meeting: Improving Geochemical Databases/Chemistry of Earth's Interior	Phillipp Ruprecht (pruprecht@unr.edu), Benjamin Andrews, (andrewsb@si.edu)	6:45 to 7:45 PM	OCC A105
Early Career Mentoring Fair	Mike Poland (mpoland@usgs.gov)	7:00 to 8:00 PM	Rock Bottom Brew Pub
Meeting: IAVCEI Commission on Volcano-Ice Interactions ⁵	Christopher Hamilton (hamilton@lpl.arizona.edu)	7:00 to 9:00 PM	OCC A106
OMSI: Nature's Fury: Living with Active Volcanoes ⁶	Elizabeth Westby (lwestby@usgs.gov)	7:00 to 9:00 PM	OMSI, \$5 donation suggested
IAVCEI Townhall: New Volcano Initiatives from the Academic Community, USGS, National Academy of Science and NASA ⁷	Terry Plank (tplank@ldeo.columbia.edu) Michelle Coombs (mcoombs@usgs.gov) Michael Manga (manga@seismo.berkeley.edu)	7:00 to 9:00 PM	Lucky Lab, Quimby Location

3 Interactive Workshop: Communicating for the Public

A discussion about how and why to communicate science with the public. Bring your ideas, questions, and experiences for this informal session on conveying scientific information with a non-expert audience, from the general public to community leaders, emergency response personnel, and policy makers. Students are welcome!

4 Meeting: COMSOL Multiphysics in Volcanology

Informal meeting for users of COMSOL multiphysics in volcanology to network, discuss future targets, and share experiences, advances and benchmarks.

5 Meeting: IAVCEI/IACS Joint Commission on Volcano-Ice Interactions

The IAVCEI/IACS Joint Commission on Volcano-Ice Interactions will meet to discuss a range of issues, including commission objectives, recent events, and future workshop planning, as well as to develop discussions between members, old and new.

MORE TUESDAY EVENTS NEXT PAGE

6 OMSI: Nature's Fury: Living with Active Volcanoes

Amazing stories told by three renowned scientists who share their experiences studying and responding to volcanic eruptions. Hear how advances in volcano science and lessons learned are applied globally and at our Cascade volcanoes. Special presentations by Marta Calvache, Director of the Colombian Geological Survey's Natural Hazards Program, Richie Robertson, Director of the Seismic Research Centre at the University of the West Indies, and John Ewert, USGS-Cascades Volcano Observatory. (omsu.edu/sciencepub). Doors open at 5 pm with food and drink available for purchase in the OMSI Cafe. \$5 suggested donation. No reservations. Come early as the event will likely sell-out.

7 IAVCEI Townhall: New Volcano Initiatives from the Academic Community, the USGS, the National Academy of Science and NASA

The past year has seen the academic community, the USGS, NASA and international partners joining to further volcano science, particularly at subduction zones, with the following initiatives and reports:

- National Academy of Science Report: ERUPT, Volcanic Eruptions and Their Repose, Unrest, Precursors, and Timing
- SZ4D Initiative: Understanding the Processes that Underlie Subduction Zone Hazards in 4D
- USGS Report: Reducing Risk Where Tectonic Plates Collide—A Plan to Advance Subduction Zone Science
- NASA's New Decadal Survey

This Townhall would seek to gather volcano scientists, including early career scientists and students, to discuss future funding and coordination activities in furthering volcano science.

Wednesday, August 16

Event	Contact/Convener	Time	Location
Mount St Helens Mid-Conference Field Trip	Cynthia Gardner, Jon Major, Mike Poland	Check in times 7:00 to 9:45 am	Outside Holladay lobby of OCC
Mount Hood Mid-Conference Field Trip	Cynthia Gardner, Jon Major, Mike Poland	Check in times 7:00 to 9:45 am	Outside Holladay lobby of OCC
Columbia River Gorge Mid-Conference Field Trip	Cynthia Gardner, Jon Major, Mike Poland	Check in times 7:00 to 9:45 am	Outside Holladay lobby of OCC
Meeting: Commission on Submarine Volcanism ⁸	Adam Soule (ssoule@whoi.edu)	7:00 to 10:00 PM	Buckman Public House
Meeting: Collapse Caldera Commission	Shan de Silva (desilvas@geo.oregonstate.edu)	8:00 to 10:00 PM	Lucky Lab, Quimby Location

All buses leave between 7:30 am and 10:15. Specifics for each participant are printed on the back of the conference badge. Questions directed to Mike Poland.

⁸ Meeting: Commission on Submarine Volcanism

The newly-formed IAVCEI Commission on Submarine Volcanism invites you to a party to raise funds for the COSV website. Purchase a ticket (\$50) to receive dinner and volcano-themed cocktails along with a limited-edition COSV sticker. Tickets for dinner and drinks are limited, so contact Adam Soule (ssoule@whoi.edu) to reserve your spot. Those without tickets are welcome to come socialize, chat about submarine volcanism, and sign-up for commission membership. The party will be held at the Buckman Public House (~\$8 uber ride from the conference venue), which is a converted high-school science laboratory with a large outdoor patio. The party will be hosted by the COSV leadership (Rebecca Carey, Steffen Kutterolf, Mike Perfit, and Adam Soule).

Thursday, August 17

Event	Contact/Convener	Time	Location
Onsite Registration and Badge/Package Pickup		7:30 am to 4:00 PM	OCC Prefunction A
Speaker Ready Room		7:00 am to 5:00 PM	OCC A104
Plenary Session Brandon Schmandt— <i>Advancing Volcano Seismology with Large-N Seismic Array</i> Bill Chadwick— <i>Axial Seamount: Recent Results from the Most Active Volcano in the US Pacific Northwest</i>	Dennis Geist	8:30 to 10:00 am	OCC Oregon Ballroom 201-203
Break		10:00 to 10:30 am	OCC Prefunction A
Oral Sessions		10:30 am to 12:30 PM	OCC A105, A106, A107-109, B110-112, B113, B114-115, B116, B117-119, OCC Oregon Ballroom 201-203
Lunch		12:30 to 2:00 PM	
Meeting: Commission on Statistics in Volcanology	Patrick Whelley (patrick.l.whelley@nasa.gov)	12:45 to 1:45 PM	OCC A105
Townhall: Moving Forwards After the National Academy ERUPT Report ⁹	Michael Manga (manga@seismo.berkeley.edu) Tobias Fischer (fischer@unm.edu)	12:45 to 1:45 PM	OCC B117-119
Panel Discussion: Scientific Communication During a Crisis	Mike Poland (mpoland@usgs.gov)	12:45 to 1:45 PM	OCC A107-109
Presentation by Esri: Harnessing the Geospatial Power of Drones Real-Time Dynamic Data Fusion ¹⁰	Ken Gorton, Stephen Zahniser (SZahniser@esri.com)	12:45 to 1:45 PM	OCC Oregon Ballroom 201-203

MORE THURSDAY EVENTS NEXT PAGE

Thursday, August 17 (continued)

Event	Contact/Convener	Time	Location
Oral Sessions		2:00 to 4:00 PM	OCC A105, A106, A107-109, B110-112, B113, B114-115, B116, B117-119, OCC Oregon Ballroom 201-203
Poster Sessions		4:00 to 6:00 PM	OCC Exhibit Hall A
Meeting: IAVCEI Executive Board	Roberto Sulpizio (roberto.sulpizio@uniba.it)	4:15 to 6:15 PM	OCC A106
Networking: Scientists from Developing Countries ¹¹	Victoria Miller (Victoria.Miller@ga.gov.au)	6:30 PM	Lucky Lab, Quimby Location
Meeting: Commission on Volcanic Hazard and Risk	Eliza Calder (eliza.calder@ed.ac.uk)	6:30 to 7:30 PM	OCC A105
Screening: <i>Into the Inferno</i> by Werner Herzog and Clive Oppenheimer, followed by question and answer ¹² 	Clive Oppenheimer (co200@cam.ac.uk), Shan de Silva (desilvas@geo.oregonstate.edu)	7:00 to 9:30 PM	OCC Oregon Ballroom 201-203

9 Townhall: Moving Forwards After the National Academy ERUPT Report

Brief review of report on ERUPT (Volcanic Eruptions and Their Repose, Unrest, Precursors and Timing) followed by discussion.

MORE THURSDAY EVENTS NEXT PAGE

10 Presentation: Harnessing the Geospatial Power of Drones Real-Time Dynamic Data Fusion

Presenters: Ken Gorton & Stephen Zahniser

Leveraging the power of Unmanned Aerial Vehicles (UAVs) to access remote and dangerous locations. UAVs can quickly capture multispectral imagery used to generate 2D, 3D products such as orthoimagery and 3d meshes that easily integrate with the ArcGIS platform. Use these professional quality imagery products to monitor environmental change, perform land analysis, and unlock the insights hidden in your imagery. As drones continue to revolutionize how we work today, Esri can help your organization gain the benefits of this emerging technology.

Expand your knowledge of the field site further by coupling your imagery with real-time sensor data streams. ArcGIS GeoEvent Server allows the tracking of dynamic data streams providing real-time situational awareness for coordinated field activities or community response. Detect and focus on the most important events, locations, and thresholds while accommodating multiple streams of data flowing continuously through filters and processing steps that you define. Perform real-time analytics on data streams to identify patterns of interest important to your organization.

11 Networking: Scientists from Developing Countries

To encourage the development of networks across nations with similar considerations. Food and drink are available for purchase at the Lucky Labrador (Quimby location), and a small amount of pizza will be provided to inspire collaborations!

12 Screening: Into the Inferno

“[INTO THE INFERNO] is an exhilarating trip, filled with strange stories, fascinating rituals and ethereally beautiful images of bubbling magma... Mr. Oppenheimer is a charming interlocutor and, with his easy manner... he soon becomes an emblem for scientific inquiry at its most accessible and exciting. He grounds the movie in science but he also helps give it a conversational lightness... It's a winning, sneakily warming division of labor partly because this is also a documentary about friendship.” New York Times. 104 minutes, followed by question and answer.

Friday, August 18

Event	Contact/Convener	Time	Location
Onsite Registration and Badge/Package Pickup		7:30 to 9:30 am	OCC Prefunction A
Coat/luggage check		8:00 am to 6 PM	OCC A103
Speaker Ready Room		7:00 am to 2:00 PM	OCC A104
Plenary Session Vickie McConnell— <i>Interfacing Science with Government: You Don't Always Get What You Want</i> Peter Frenzen— <i>Interfacing with the Public: Lessons Learned from 30 Years of Science Messaging at Mount St. Helens</i>	Jon Major, Wendy Bohrsen	8:30 to 10:00 am	OCC Oregon Ballroom 201-203
Break		10:00 to 10:30 am	OCC Prefunction A
Oral Sessions		10:30 am to 12:30 PM	OCC A105, A106, A107-109, B110-112, B113, B114-115, B116, B117-119, OCC Oregon Ballroom 201-203
Lunch		12:30 to 2:00 PM	
IAVCEI Volcanogenic Sediments Commission	Gabor Kereszturi (G.Kereszturi@massey.ac.nz) Eric Breard (eric.breard@eas.gatech.edu)	12:45 to 1:45 PM	OCC A105
Meeting: IAVCEI ECR-Net Committee	Sam Poppe (sam35poppe@gmail.com)	12:45 to 1:45 PM	OCC A106
Virtual Volcanology: The Influence of Volcanoes on Google Earth ¹³	John Bailey (johnbailey@google.com)	12:45 to 1:45 PM	OCC B117-119
Meeting: Themes and Challenges for Volcanic Hazard/Risk Work in Developing Countries ¹⁴	Victoria Miller (Victoria.Miller@ga.gov.au)	12:45 to 1:45 PM	OCC B116

MORE FRIDAY EVENTS NEXT PAGE

Friday, August 18

Event	Contact/Convener	Time	Location
Lunch Keynote: Patricia Mothes— <i>Lessons Learned from Six Volcano Crises in Ecuador by the IGEPN</i>	Heather Wright (hwright@usgs.gov)	1:00 to 1:45 PM	OCC Oregon Ballroom 201-203
Oral Sessions		2:00 to 4:00 PM	OCC A105, A106, A107-109, B110-112, B113, B114-115, B116, B117-119, OCC Oregon Ballroom 201-203
Closing Ceremony	Martin Streck, Jon Major	4:30 to 5:30 PM	OCC Oregon Ballroom 201-203
Farewell Party Featuring Pink Martini	Dennis Geist (dgeist@uidaho.edu)	7:00 PM	Crystal Ballroom (1332 W Burnside Street)

13 Virtual Volcanology: The Influence of Volcanoes on Google Earth

When Google Earth was released in 2005, it presented a new forum through which to visualize the world around us. Its use for assessing field sites, viewing geospatial datasets, creating publication figures, is now an accepted norm, but over a decade ago few in the scientific community had heard of Google Earth. Meanwhile, even fewer in Google's domain connected with scientists and educators. Learn the story of how Google Earth developed into a scientific and educational tool, and about the key role played by the volcanological community.

John Bailey is a former University of Hawaii student (MS with Steve Self; PhD with Peter Mougini-Mark), who was previously a postdoc and assistant professor at the University of Alaska/AVO. He is currently the Program Manager for Google Geo Education on the Google Earth Outreach team.

14 Themes and Challenges for Volcanic Hazard/Risk Work in Developing Countries

This meeting seeks to gather volcano scientists from developing nations and researchers supporting this work. With a focus on discussing common challenges and barriers to understanding and mitigating volcanic risk in developing countries and coming up with strategies to encourage the scientific community to incorporate these considerations in their work.

Saturday, August 19

Event	Contact/Convener	Time	Location
Best Practices in Tephra Collection, Analysis, and Reporting: Leading Toward Better Tephra Databases	Kristi Wallace, Steve Kuehn, Marcus Bursik, Andrei Kurbatov	9:00 am to 6:00 PM	Hilton Portland Downtown Forum Suite
Numerical Modeling with OpenFOAM for Volcanological Applications	Mattia de'Michieli Vitturi, Einat Lev, Hannah Dietterich, Tomaso Esposti Ongaro	8:30 am to 5:30 PM	Hilton Portland Downtown Directors Suite

Saturday, August 19 to Thursday August 24

Event	Contact/Convener	Time	Location
Statistics in Volcanology: The Hazards of Lassen Volcano	Mark Bebbington, Chuck Connor, Sarah Ogburn, Patrick Whelley	Provided by conveners	Lassen Volcano

Sessions by Day

Monday Aug. 14, 2017	11:00 AM - 1:00 PM	MT11A: I.1 Planetary volcanology I 11:00 AM - 1:00 PM B116 Patrick McGovern and Paul Byrne
		ME11A: II.6 Volcanism and magmatism under water or ice I 11:00 AM - 1:00 PM A105 Meagan Pollock and Meghan Jones
		ME11B: II.7 Architecture of magmatic plumbing systems I 11:00 AM - 1:00 PM Ballroom 201-203 Steffi Burchardt and Mike Garcia
		ME11C: II.10 A tribute to the life and work of Jon Davidson (1959-2016) I 11:00 AM - 1:00 PM A107-109 Shan de Silva and Claire McLeod
		PE11A: III.5 Processes leading to monogenetic volcanism I 11:00 AM - 1:00 PM A106 Emily Johnson and Greg Valentine
		PE11B: III.6 Linking monitoring data with volcanic processes I 11:00 AM - 1:00 PM B117-119 David fee and Ben Kennedy
		VH11A: V.6 Volcanic ash and gas: Generation, transport and impacts on infrastructure, aviation, and climate I 11:00 AM - 1:00 PM B114-115 Alan Robock and Inga Tarasenko
		VH11B: V.7 Volcano geology and geological mapping as tools for unravelling volcanic history and long term hazards assessment I 11:00 AM - 1:00 PM B110-112 Federico Lucchi and Natalia Pardo Villaveces
		ER11A: VI.2 New approaches to understanding magma and volatile evolution, sub-volcanic intrusions and porphyry ore mineralization I 11:00 AM - 1:00 PM B113 John Dilles and Madeleine Humphreys
	2:30 PM - 4:30 PM	ME12A: II.7 Architecture of magmatic plumbing systems II 2:30 PM - 4:30 PM Ballroom 201-203 Emilie Hooft and Janine Kavanagh
		ME12B: II.10 A tribute to the life and work of Jon Davidson (1959-2016) II 2:30 PM - 4:30 PM A107-109 Wendy Bohrsen and Frank Tepley
		PE12A: III.5 Processes leading to monogenetic volcanism II 2:30 PM - 4:30 PM A106 Natalia Deligne and Karoly Nemeth
		PE12B: III.6 Linking monitoring data with volcanic processes II 2:30 PM - 4:30 PM B117-119 David Fee and Ben Kennedy
		PE12C: III.7 Combining geological data and numerical simulations for understanding the eruption dynamics and depositional processes I 2:30 PM - 4:30 PM A105 Roberto Sulpizio and Antonio Costa
		VO12A: IV.5 The role of volatiles in volcanic systems of the Earth's lithosphere I 2:30 PM - 4:30 PM B113 Mattia Pistone and Max Gavrilenko
		VH12A: V.6 Volcanic ash and gas: Generation, transport and impacts on infrastructure, aviation, and climate II 2:30 PM - 4:30 PM B114-115 Matthieu Poret and Antonio Costa
		VH12B: V.7 Volcano geology and geological mapping as tools for unravelling volcanic history and long term hazards assessment II 2:30 PM - 4:30 PM B110-112 Julie Donnelly-Nolan and Christopher Harpel
		FT12A: VIII.1 New approaches using statistical methods in volcanology I 2:30 PM - 4:30 PM B116 Benjamin Black and Jacob Richardson
	4:30 PM - 6:30 PM	MT13A: I.1 Planetary volcanology II Posters 4:30 PM - 6:30 PM Exhibit Hall A DelWayne Bohnenstiehl and Paul Byrne
		ME13A: II.6 Volcanism and magmatism under water or ice II Posters 4:30 PM - 6:30 PM Exhibit Hall A Brian Dreyer and Ken Rubin
		ME13B: II.7 Architecture of magmatic plumbing systems III Posters 4:30 PM - 6:30 PM Exhibit Hall A Roger Denlinger and Mike Garcia
		ME13C: II.10 A tribute to the life and work of Jon Davidson (1959-2016) III Posters 4:30 PM - 6:30 PM Exhibit Hall A Wendy Bohrsen and Frank Tepley
		PE13A: III.5 Processes leading to monogenetic volcanism III Posters 4:30 PM - 6:30 PM Exhibit Hall A Benjamin Van Wyk de Vries and Marie Noel Guilbaud
		PE13B: III.6 Linking monitoring data with volcanic processes III Posters 4:30 PM - 6:30 PM Exhibit Hall A Diana Roman and Luca Carrichi
		PE13C: III.7 Combining geological data and numerical simulations for understanding the eruption dynamics and depositional processes II Posters 4:30 PM - 6:30 PM Exhibit Hall A Silvia Massaro

Sessions by Day

Monday Aug. 14, 2017	4:30 PM - 6:30 PM	VO13A: IV.5 The role of volatiles in volcanic systems of the Earth's lithosphere II Posters 4:30 PM - 6:30 PM Exhibit Hall A Mike Krawczynski and Philipp Ruprecht
		VH13A: V.6 Volcanic ash and gas: Generation, transport and impacts on infrastructure, aviation, and climate III Posters 4:30 PM - 6:30 PM Exhibit Hall A Matthieu Poret and Tamsin Mather
		VH13B: V.7 Volcano geology and geological mapping as tools for unravelling volcanic history and long term hazards assessment III Posters 4:30 PM - 6:30 PM Exhibit Hall A Julie Donnelly-Nolan and Christopher Harpel
		FT13A: VIII.1 New approaches using statistical methods in volcanology II Posters 4:30 PM - 6:30 PM Exhibit Hall A Leif Karlstrom and Gabor Kereszturi
		FT13B: VIII.3 Volcano databases: new developments and applications I Posters 4:30 PM - 6:30 PM Exhibit Hall A Fidel Costa and Emanuela De Beni
		FT13C: VIII.4 Visualization tools and image processing in volcanology I Posters 4:30 PM - 6:30 PM Exhibit Hall A Mike James and Tobias Mattsson
Tuesday, Aug. 15, 2017	11:00 AM - 1:00 PM	MT21A: I.2 Relating magmatic-tectonic processes and volcano flank stability I 11:00 AM - 1:00 PM A107-109 Lauren Schaefer and Emily Montgomery-Brown
		ME21A: II.7 Architecture of magmatic plumbing systems IV 11:00 AM - 1:00 PM Ballroom 201-203 Roger Denlinger and Feysteinn Sigmundsson
		ME21B: II.9 Continental large igneous provinces: understanding processes of magma formation, storage, evolution, and eruption I 11:00 AM - 1:00 PM B110-112 Dylan Colon and Anita Grunder
		PE21A: III.6 Linking monitoring data with volcanic processes IV 11:00 AM - 1:00 PM B117-119 Diana Roman and Luca Caricchi
		VO21A: IV.1 Remote sensing of volcanic gases from space-based, airborne and ground-based platforms I 11:00 AM - 1:00 PM A106 Florian Schwandner and Simon Carn
		VH21A: V.6 Volcanic ash and gas: Generation, transport and impacts on infrastructure, aviation, and climate IV 11:00 AM - 1:00 PM B114-115 Antonio Costa and Inga Tarasenko
		ER21A: VI.3 Application of geological mapping and field surveys to different exploitation contexts (geothermal and ore deposits) I 11:00 AM - 1:00 PM B116 Claudia Principe and Nino Podkhadze
		VS21A: VII.2 Volcanic geoheritage I 11:00 AM - 1:00 PM B113 Tom Casadevall and Karoly Nemeth
		FT21A: VIII.4 Visualization tools and image processing in volcanology II 11:00 AM - 1:00 PM A105 Jacopo Taddeucci and Carolyn Parcheta
	2:30 PM - 4:30 PM	MT22A: I.3 How good are volcanoes at sampling magmatic systems in space and time? I 2:30 PM - 4:30 PM A106 Eva Hartung and Chad Deering
		ME22A: II.1 Viscous lava flows and domes: multi-disciplinary studies of emplacement mechanisms I 2:30 PM - 4:30 PM B116 Jonathan Fink and Jackie Kendrick
		ME22B: II.7 Architecture of magmatic plumbing systems V 2:30 PM - 4:30 PM Ballroom 201-203 Kari Cooper and Olivier Bachmann
		ME22C: II.9 Continental large igneous provinces: understanding processes of magma formation, storage, evolution, and eruption processes II 2:30 PM - 4:30 PM B110-112 Erika Rader and John Wolff
		PE22A: III.6 Linking monitoring data with volcanic processes V 2:30 PM - 4:30 PM B117-119 Diana Roman and Luca Caricchi
		VO22A: IV.3 The role of volatiles and degassing in magmatic and eruptive processes I 2:30 PM - 4:30 PM B114-115 Mary Benage and Stephanie Grocke
		VH22A: V.3 Modelling volcanic hazards I 2:30 PM - 4:30 PM A105 Mark Bebbington and Sylvain Charbonnier
		ER22A: VI.1 Volcano-hydrothermal system dynamics: Hazards, resources, and extremophiles I 2:30 PM - 4:30 PM A107-109 Franco Tassi and Isabelle Chambeft
		FT22A: VIII.3 Volcano databases: new developments and applications II 2:30 PM - 4:30 PM B113 Ben Andrews and Lucia Capra
	4:30 PM - 6:30 PM	MT23A: I.2 Relating magmatic-tectonic processes and volcano flank stability II Posters 4:30 PM - 6:30 PM Exhibit Hall A Alessandro Bonaforte and Aline Peltier

Sessions by Day

Tuesday, Aug. 15, 2017	4:30 PM - 6:30 PM	MT23B: I.3 How good are volcanoes at sampling magmatic systems in space and time? II Posters 4:30 PM - 6:30 PM Exhibit Hall A Tom Sheldrake and Eva Hartung
		MT23C: I.4 Arc evolution: space, time, morphology, and longevity of volcanic arcs I Posters 4:30 PM - 6:30 PM Exhibit Hall A Paul Wallace and Mark Jellinek
		ME23A: II.1 Viscous lava flows and domes: multi-disciplinary studies of emplacement mechanisms II Posters 4:30 PM - 6:30 PM Exhibit Hall A Yan Lavallee and Ben Kennedy
		ME23B: II.2 Basaltic eruption styles and transitions in intensity: from driving processes to impacts I Posters 4:30 PM - 6:30 PM Exhibit Hall A Antonio Capponi and Damien Gaudin
		ME23C: II.9 Continental large igneous provinces: understanding processes of magma formation, storage, evolution, and eruption processes III Posters 4:30 PM - 6:30 PM Exhibit Hall A Dylan Colon and Wendy Bohrsen
		PE23A: III.2 Geophysical multi-parameters techniques for monitoring active volcanoes I Posters 4:30 PM - 6:30 PM Exhibit Hall A Malcolm Johnson, Jacques Zlotnicki, and Jurgen Neuberg
		PE23B: III.8 Progress in understanding submarine volcanism I Posters 4:30 PM - 6:30 PM Exhibit Hall A Bill Chadwick and James White
		VO23A: IV.1 Remote sensing of volcanic gases from space-based, airborne and ground-based platforms II Posters 4:30 PM - 6:30 PM Exhibit Hall A Florian Schwandner and Simon Carn
		VO23B: IV.2 Sulfides in volcanic systems: implications for sulfur and trace metal budgets of eruptions Posters 4:30 PM - 6:30 PM Exhibit Hall A Emma Liu and Margaret Harley
		VO23C: IV.3 The role of volatiles and degassing in magmatic and eruptive processes II Posters 4:30 PM - 6:30 PM Exhibit Hall A Tom Shea and Felix von Aulock
		VH23A: V.2 Volcano geomorphology and sedimentology: topography, processes, and deposits I Posters 4:30 PM - 6:30 PM Exhibit Hall A Marco Pistolesi and Tom Pierson
		VH23B: V.3 Modelling volcanic hazards II Posters 4:30 PM - 6:30 PM Exhibit Hall A Leah Courtland and Mark Bebbington
		ER23A: VI.1 Volcano-hydrothermal system dynamics: Hazards, resources, and extremophiles II Posters 4:30 PM - 6:30 PM Exhibit Hall A Shaul Hurwitz and Andri Stefansson
		ER23B: VI.2 New approaches to understanding magma and volatile evolution, sub-volcanic intrusions and porphyry ore mineralization II Posters 4:30 PM - 6:30 PM Exhibit Hall A Victoria Smith and Alison Rust
		ER23C: VI.3 Application of geological mapping and field surveys to different exploitation contexts (geothermal and ore deposits) II Posters 4:30 PM - 6:30 PM Exhibit Hall A Nino Podkhadze and Domenico D'Oronzo
		VS23A: VII.2 Volcanic geoheritage II Posters 4:30 PM - 6:30 PM Exhibit Hall A Tom Casadevall and Karoly Nemeth
Thursday, Aug. 17, 2017	10:30 AM - 12:30 PM	MT41A: I.4 Arc evolution: space, time, morphology, and longevity of volcanic arcs II 10:30 AM - 12:30 PM A106 Diana Roman and Mattia Pistone
		ME41A: II.2 Basaltic eruption styles and transitions in intensity: from driving processes to impacts II 10:30 AM - 12:30 PM B113 Elisabetta Del Bello and Nolwenn Le Gass
		ME41B: II.7 Architecture of magmatic plumbing systems VI 10:30 AM - 12:30 PM Ballroom 201-203 Olivier Bachmann and Steffi Burchardt
		ME41C: II.8 Investigating conduit processes and eruption dynamics by integrating experiments, numerical modelling, observations, and sample analysis I 10:30 AM - 12:30 PM A107-109 Amanda Clarke and Mattia de' Michielli Vitturi
		PE41A: III.1 Forecasting volcanic eruptions I 10:30 AM - 12:30 PM B110-112 Nico Fournier and Corentin Caudron
		PE41B: III.2 Geophysical multi-parameters techniques for monitoring active volcanoes II 10:30 AM - 12:30 PM B117-119 Jacques Zlotnicki and Malcolm Johnson
		PE41C: III.8 Progress in understanding submarine volcanism II 10:30 AM - 12:30 PM B116 Martin Jutzeler and Nancy Riggs
		VO41A: IV.3 The role of volatiles and degassing in magmatic and eruptive processes III 10:30 AM - 12:30 PM B114-115 Taryn Lopez and Patrick Allard
		VH41A: V.2 Volcano geomorphology and sedimentology: topography, processes, and deposits II 10:30 AM - 12:30 PM A105 Angie Diefenbach and Kristin Sweeney
	2:00 PM - 4:00 PM	MT42A: I.4 Arc evolution: space, time, morphology, and longevity of volcanic arcs III 2:00 PM - 4:00 PM A105 Leif Karlstrom and Severine Moune

Sessions by Day

Thursday, Aug. 17, 2017	2:00 PM - 4:00 PM	ME42A: II.5 Using geochronology and quantitative petrology to understand the P-T-t-X evolution of magmatic systems leading up to volcanic eruptions I 2:00 PM - 4:00 PM A107-109 Aurelle Germa and Martin Danisik
		ME42B: II.7 Architecture of magmatic plumbing systems VII 2:00 PM - 4:00 PM Ballroom 201-203 Janine Kavanagh and Matthew Patrick
		ME42C: II.8 Investigating conduit processes and eruption dynamics by integrating experiments, numerical modelling, observations, and sample analysis II 2:00 PM - 4:00 PM A106 Margherita Polacci and Ed Llewellyn
		PE42A: III.1 Forecasting volcanic eruptions II 2:00 PM - 4:00 PM B110-112 Sarah Ogburn and Tarsilo Girona
		PE42B: III.2 Geophysical multi-parameters techniques for monitoring active volcanoes III 2:00 PM - 4:00 PM B117-119 Jurgen Neuberg and Takeshi Hasimoto
		PE42C: III.4 Wet volcanoes: aquifers and lakes and their related hazards I 2:00 PM - 4:00 PM B116 Agnes Mazot and Jessica Ball
		VO42A: IV.3 The role of volatiles and degassing in magmatic and eruptive processes IV 2:00 PM - 4:00 PM B114-115 Thomas Giachetti and Jason Coumans
		FT42A: VIII.2 Drones and robots in volcanology I 2:00 PM - 4:00 PM B113 Loyc Vanderkluysen and Maarten de Moor
	4:00 PM - 6:00 PM	ME43A: II.3 Active lava lakes: A window into the deep? I Posters 4:00 PM - 6:00 PM Exhibit Hall A Einet Lev and Nial Peters
		ME43B: II.4 Experimental volcanology: from magma generation to the transport and emplacement of pyroclastic materials I Posters 4:00 PM - 6:00 PM Exhibit Hall A Ben Andrews and Ulrich Kueppers
		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 4:00 PM - 6:00 PM Exhibit Hall A David Neave and Martin Danisik
		ME43D: II.8 Investigating conduit processes and eruption dynamics by integrating experiments, numerical modelling, observations, and sample analysis III Posters 4:00 PM - 6:00 PM Exhibit Hall A Margherita Pollaci, Mattia de' Michielli Vitturi, Ed Llewellyn, and Amanda Clarke
		PE43A: III.1 Forecasting volcanic eruptions III Posters 4:00 PM - 6:00 PM Exhibit Hall A Andrew Bell and Rebecca Astbury
		PE43B: III.3 Multidisciplinary constraints on volcanic eruption triggers I Posters 4:00 PM - 6:00 PM Exhibit Hall A Thomas Giachetti and Adam Kent
		PE42C: III.4 Wet volcanoes: aquifers and lakes and their related hazards I Posters 4:00 PM - 6:00 PM Exhibit Hall A Joop Varekamp and Corentin Caudron
		PE43D: III.9 Understanding pyroclastic density currents through analysis of their deposits I Posters 4:00 PM - 6:00 PM Exhibit Hall A Rebecca Williams and Brittany Brand
		VO43A: IV.4 Volcanic plumes and clouds: from injection to dispersion I Posters 4:00 PM - 6:00 PM Exhibit Hall A Marcus Bursik and Larry Mastin
		VH43A: V.1 Lava flow dynamics and hazard assessment I Posters 4:00 PM - 6:00 PM Exhibit Hall A Loyc Vanderkluysen and Arianna Soldati
		VH43B: V.4 Just add water: hazards variation in lava flows, steam-driven and hydromagmatic explosive eruptions I Posters 4:00 PM - 6:00 PM Exhibit Hall A Emma Liu and Cristian Montanaro
		VH43C: V.5 Evaluating hazards by mapping and interpreting volcanic deposits I Posters 4:00 PM - 6:00 PM Exhibit Hall A Stefan Lachowycz and Paul Albert
		VS43A: VII.1 Managing volcanic risk in developing countries: benefits from community based risk strategies Posters 4:00 PM - 6:00 PM Exhibit Hall A Erouscilla Joseph and Paul Taylor
		VS43B: VII.3 Start spreading the news: Diverse and effective methods for communicating about volcanoes I Posters 4:00 PM - 6:00 PM Exhibit Hall A Erik Klemetti and Kaatje Kraft
		VS43C: VII.4 Integrated volcanic risk assessment I Posters 4:00 PM - 6:00 PM Exhibit Hall A Natalia Deligne and Angie Diefenbach
		VS43D: VII.5 Health roles in volcanic crises: looking back, looking forward Posters 4:00 PM - 6:00 PM Exhibit Hall A David Damby

Sessions by Day

Thursday, Aug. 17, 2017	4:00 PM - 6:00 PM	VS43E: VII.6 Successful information coordination among scientists, civil protection groups, and local officials during a crisis I Posters 4:00 PM - 6:00 PM Exhibit Hall A Carolyn Driedger and Graham Leonard
		FT43A: VIII.2 Drones and robots in volcanology II Posters 4:00 PM - 6:00 PM Exhibit Hall A John Stix and Feliz von Aulock
		ME51A: II.4 Experimental volcanology: from magma generation to the transport and emplacement of pyroclastic materials II 10:30 AM - 12:30 PM A107-109 Kate Dobson and Robert Sulpizio
Friday, Aug. 18, 2017	10:30 AM - 12:30 PM	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 10:30 AM - 12:30 PM B114-115 Georg Zellmer and Abigail Barker
		PE51A: III.1 Forecasting volcanic eruptions IV 10:30 AM - 12:30 PM B117-119 Mike Cassidy and Susanna Ebmeier
		PE51B: III.2 Geophysical multi-parameters techniques for monitoring active volcanoes IV 10:30 AM - 12:30 PM Ballroom 201-203 Stephanie Prejean and Benoit Taisne
		PE51C: III.3 Multidisciplinary constraints on volcanic eruption triggers II 10:30 AM - 12:30 PM B113 John Zayac and Helge Gonnermann
		VOS1A: IV.4 Volcanic plumes and clouds: from injection to dispersion II 10:30 AM - 12:30 PM A106 Kim Genareau and Corrado Cimarelli
		VH51A: V.1 Lava flow dynamics and hazard assessment II 10:30 AM - 12:30 PM A105 Christopher Hamilton and Oryaelle Chevrel
		VH51B: V.5 Evaluating hazards by mapping and interpreting volcanic deposits II 10:30 AM - 12:30 PM B110-112 Roberto Isaia and Kristi Wallace
		VS51A: VII.6 Successful information coordination among scientists, civil protection groups, and local officials during a crisis II 10:30 AM - 12:30 PM B116 Carolyn Driedger and Graham Leonard
	2:00 PM - 4:00 PM	ME52A: II.3 Active lava lakes: A window into the deep? II 2:00 PM - 4:00 PM B113 Matt Patrick and Nial Peters
		ME52B: II.4 Experimental volcanology: from magma generation to the transport and emplacement of pyroclastic materials III 2:00 PM - 4:00 PM B114-115 Fabio Dioguardi and Ulrich Kueppers
		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 2:00 PM - 4:00 PM Ballroom 201-203 Abigail Barker and David Neave
		PE52A: III.9 Understanding pyroclastic density currents through analysis of their deposits II 2:00 PM - 4:00 PM A107-109 Pete Rowley and Rebecca Williams
		VOS2A: IV.4 Volcanic plumes and clouds: from injection to dispersion III 2:00 PM - 4:00 PM B110-112 Larry Mastin and Ben Devenish
		VH52A: V.4 Just add water: hazards variation in lava flows, steam-driven and hydromagmatic explosive eruptions II 2:00 PM - 4:00 PM A105 Karen Strehlow and Pranabendu Moitra
		VH52B: V.5 Evaluating hazards by mapping and interpreting volcanic deposits III 2:00 PM - 4:00 PM B117-119 Dave Ramsey and Karen Fontijn
		VS52A: VII.3 Start spreading the news: Diverse and effective methods for communicating about volcanoes II 2:00 PM - 4:00 PM A106 Sally Kuhn Sennert and Rachel Teasdale
		VS52B: VII.4 Integrated volcanic risk assessment II 2:00 PM - 4:00 PM B116 Matthieu Kervyn and Susanna Jenkins

Monday, August 14

Opening Ceremony and Plenary Session

Monday August 14, 2017. 8:30 AM - 10:30 AM OCC Oregon Ballroom 201-203

		Jon Major	Opening Ceremony
		Anita Grunder	Legacy of Cenozoic Volcanism in the Pacific Northwest: One of myriad versions
		Ray Wells	Cenozoic tectonic evolution of the Cascadia convergent margin, western North America

MT11A: I.1 Planetary volcanology I

Monday August 14, 2017. 11:00 AM - 1:00 PM Room B116

Abstract Number	Time	Authors	Title
MT11A-1	11:00 AM - 11:15 AM	Sarah S. Sutton, Christopher W. Hamilton, Jacob E. Bleacher, David A. Williams	Channelized Flows East of Olympus Mons, Mars
MT11A-2	11:15 AM - 11:30 AM	Gabriel Garcia, Brittany Brand, Joshua Bandfield	Identifying explosive volcanism on Mars through geomorphologic and thermophysical observations
MT11A-3	11:30 AM - 11:45 AM	Catherine Elder, Paul Hayne, Timothy Glotch	Low Thermal Inertia Volcanic Deposits on the Moon
MT11A-4	11:45 AM - 12:00 PM	Aaron Morrison, Michael Zanetti, Christopher Hamilton, Catherine Neish, Einat Lev, Alan Whittington	Rheology of lunar highland and mare impact melt simulants: JSC-1a, Stillwater anorthosite, and Stillwater norite
MT11A-5	12:00 PM - 12:15 PM	Marie Schmidt, Alicia Thomas, Lucy Thompson, Ralf Gellert	Diverse igneous protolith contributions to sediments in Gale Crater: Implications for a variably metasomatised Mars mantle
MT11A-6	12:15 PM - 12:30 PM	Michael Manga, Chloe Michaut	Formation of lenticulae on Europa by saucer-shaped sills
MT11A-7	12:30 PM - 12:45 PM	Eric Grosfils, Patrick McGovern, Nicolas Le Corvec, Gerald Galgana, Debra Hurwitz, Shelley Chestler	Revisiting the Mechanics of Radial Dike Swarm Formation: Some Limitations of Past Approaches and an Overview of New Insights Derived from Recent Numerical Models
MT11A-8	12:45 PM - 1:00 PM	Paul Byrne	The volcanic histories of Mercury and the Moon are distinct from those of Earth, Mars, and Venus

ME11A: II.6 Volcanism and magmatism under water or ice I

Monday August 14, 2017. 11:00 AM - 1:00 PM Room A105

Abstract Number	Time	Authors	Title
ME11A-1 (invited)	11:00 AM - 11:30 AM	Raymond Cas	Why deep water volcanic eruptions are so different from subaerial eruptions
ME11A-2	11:30 AM - 11:45 AM	Madeline Lewis, Paul Asimow, David Lund	Petrology of Explosive Eruptions from the Pacific-Antarctic Ridge and Ties to Sea Level Variation
ME11A-3	11:45 AM - 12:00 PM	Michael Perfit, Daniel Fornari, Patricia Gregg, Dorsey Wanless, Matthew Smith, W. Ian Ridley	Diversity of Lavas from the 8° 20'N Seamount Chain: Windows into Small-scale Geochemical Heterogeneity of the Mantle Proximal to the Northern East Pacific Rise
ME11A-4	12:00 PM - 12:15 PM	Jodi M. Fox, Rebecca J. Carey, Millard F. Coffin, Sally J. Watson, Paul Olin, Richard Arculus, Erica Spain	McDonald Islands – An example of submarine and subaerial phonolitic volcanism on the Kerguelen Plateau, the southern Indian Ocean
ME11A-5 (invited)	12:15 PM - 12:30 PM	Alison Graettinger, Dave McGarvie, Ian Skilling, Armann Hoskuldsson	Growth of a long-lived multi-vent ice-confined basaltic volcano: Austurfjöll, Askja, Iceland
ME11A-6	12:30 PM - 12:45 PM	Aaron Curtis, Philip Kyle	Satellite and LiDAR monitoring of ice-covered volcanoes to detect volcanic unrest
ME11A-7	12:45 PM - 1:00 PM	Rosemary Cole, James White, Graham Leonard, Dougal Townsend	A physical volcanology study to determine the glaciovolcanic evolution of an andesitic edifice, Tongariro Volcano, New Zealand

ME11B: II.7 Architecture of magmatic plumbing systems I

Monday August 14, 2017. 11:00 AM - 1:00 PM Ballroom 201-203

Abstract Number	Time	Authors	Title
ME11B-1	11:00 AM - 11:15 AM	V. Dorsey Wanless, Mark Behn	Geochemical and thermal constraints on magma storage and crystallization along the global mid-ocean ridge system
ME11B-3	11:30 AM - 11:45 AM	Fiona Iddon, Marie Edmonds, Karen Fontijn, Juliane Hübert Hübert, William Hutchinson, Charlotte Jackson, Tamsin Mather, David Pyle	Mush architecture beneath peralkaline volcanoes in the Main Ethiopian Rift

ME11B-4	11:45 AM - 12:00 PM	Eleanora Rivalta, Marco Neri, Francesco Maccaferri, Valerio Acocella, Rosolino Cirrincione	Crustal magma pathways for Etnean and Hyblean volcanism curved by deepening of Malta Escarpment
ME11B-5	12:00 PM - 12:15 PM	Erik Sturkell, Halldór Ólafsson, Eysteinn Tryggvason, Halldór Geirsson, Ásta Rut Hjartardóttir, Páll Einarsson, Freysteinn Sigmundsson, Talfan Barnie	Fifty years of tilt measurements in Iceland: Lessons learned
ME11B-6	12:15 PM - 12:30 PM	Robert White, Marie Edmonds, John MacLennan, Jennifer Jenkins	Deep Crustal Magma Plumbing in Iceland from seismicity, geochemistry and petrology
ME11B-7	12:30 PM - 12:45 PM	Michael Poland, Michael Lisowski, Daniel Dzurisin, Rebecca Kramer, Megan McLay, Benjamin Pauk	A volcano geodesy tour of the Cascade arc
ME11B-8	12:45 PM - 1:00 PM	Esteban Bowles-Martinez, Paul Bedrosian, Adam Schultz, Jared Peacock, Graham Hill	Magnetotelluric imaging reveals conductive connections within the southern Washington Cascade arc

ME11C: II.10 A tribute to the life and work of Jon Davidson (1959-2016) I
Monday August 14, 2017. 11:00 AM - 1:00 PM Room A107-109

Abstract Number	Time	Authors	Title
ME11C-1 (invited)	11:00 AM - 11:30 AM	Heather K. Handley, Jon P. Davidson, Colin G. Macpherson	Separating crustal and mantle signatures in Sunda arc subduction zone volcanic rocks
ME11C-2	11:30 AM - 11:45 AM	George Bergantz, Jillian Schleicher, Alain Burgisser	Unpacking the Crystal Cargo: Getting to the Bottom of Magma Dynamics
ME11C-3	11:45 AM - 12:00 PM	Kari Cooper, Adam Kent, Christian Huber, Kevin Schrecengost, Allison Rubin, Wim Degruyter, Richard Bradshaw	Reconciling “cold storage” and “warm storage” in crustal magma reservoirs
ME11C-4	12:00 PM - 12:15 PM	John Hora, Gerhard Wörner, Andreas Kronz, Axel Schmitt	Progress toward Crystal Thermal Stratigraphies: relative and quantitative constraints on T-t evolution of long-lived magmatic systems
ME11C-5	12:15 PM - 12:30 PM	Katharine Cashman, Stephen Sparks, Jon Blundy, Jenny Riker, Guido Giordano	What’s the mush? Physical insights into mush structure provided by crystal cargo
ME11C-6	12:30 PM - 12:45 PM	Jenni Barclay, Katie Preece, Katy Chamberlain, Richard Brown, Darren Mark, Charlotte Vye, Ben E. Cohen, Sue Loughlin	Integrating volcanology, geochemistry and petrology to understand magmatism on Ascension Island
ME11C-7	12:45 PM - 1:00 PM	Fidel Costa, Liliu Cheng	A statistical approach to identify plagioclase crystal populations and applications to subduction zone magmas

PE11A: III.5 Processes leading to monogenetic volcanism I
Monday August 14, 2017. 11:00 AM - 1:00 PM Room A106

Abstract Number	Time	Authors	Title
PE11A-1	11:00 AM - 11:15 AM	Adrian Pittari, April Foote, Aliasgar Kapasi, Roger M. Briggs, Keith Miller, Karoly Nemeth	Volcanic history of the Bombay Volcanic Complex, New Zealand: Long-lived, closely-spaced volcanism in a dispersed monogenetic field
PE11A-2	11:15 AM - 11:30 AM	Ian E M Smith	The Geochemical Behaviour of small scale basaltic systems: the example of intraplate monogenetic systems
PE11A-3	11:30 AM - 11:45 AM	Marco Brenna, Shane Cronin, Ian Smith, James Scott, Elaine Smid	Rapid magma ascent following complex storage in the monogenetic Auckland Volcanic Field
PE11A-4	11:45 AM - 12:00 PM	Maria Eva Jankovics, Szabolcs Harangi, Balazs Kiss, Karoly Nemeth, Theodoros Ntaflos	High-resolution mineral-scale analysis to unravel the complexity of the subvolcanic magmatic systems beneath monogenetic basaltic volcanoes
PE11A-5	12:00 PM - 12:15 PM	Steven Levesque, Frank Ramos	Geochemical Constraints on the Magmatic Evolution of the McCartys Flow, West-Central New Mexico
PE11A-6	12:15 PM - 12:30 PM	Xavier Bolós, Gerardo Cifuentes, José Luis Macías, Giovanni Sosa-Ceballos, Denis Avellán	Eruption dynamics, internal structure and hydrothermal system of Parícutin volcano (Mexico) Insights from ERT 3D model combined with historical and geological evidences
PE11A-7	12:30 PM - 12:45 PM	Caroline Bélanger, Pierre-Simon Ross	Origin of non-bedded pyroclastic rocks in the Cathedral Cliff diatreme, Navajo volcanic field, New Mexico
PE11A-8	12:45 PM - 1:00 PM	Pierre-Simon Ross, Patrick Hayman, Gerardo Carrasco Núñez	Felsic diatremes, a volcanological overview

PE11B: III.6 Linking monitoring data with volcanic processes I
Monday August 14, 2017. 11:00 AM - 1:00 PM Room B117-119

Abstract Number	Time	Authors	Title
PE11B-1	11:00 AM - 11:15 AM	Stephanie B. Grocke, Thorvaldur Thordarson, Anja Schmidt, Elisa Carboni, Estelle Bonny, Rob Wright, Ármann Höskuldsson, Ingibjörg Jónsdóttir, Tamsin A. Mather	Integrating the empirical petrologic method, satellite retrievals, and model simulations to evaluate sulfur degassing processes at the 2014-2015 basaltic flood lava eruption at Holuhraun (N-Iceland)

PE11B-2	11:15 AM - 11:30 AM	Stéphanie Dumont, Freysteinn Sigmundsson, Andy Heimisson, Kristín S. Vogfjörð, Sigrún Hreinsdóttir, Benedikt G. Ófeigsson, Melissa A. Pfeffer, Diego Coppola, Sara Barsotti, Maurizio Ripepe, Eva P.S. Eibl, Chris J. Bean, Elías R. Heimisson, Michelle M. Parks, MagnúsT. Gudmundsson, Kristín Jónsdóttir, Vincent Drouin, Gro B.M. Pedersen, Ármann Höskuldsson, Saemundur A. Halldórsson, IES field team	Spatial and temporal evolution of the plumbing system feeding the 2014-2015 fissure eruption at Holuhraun (Iceland) inferred from a multi-disciplinary approach
PE11B-3	11:30 AM - 11:45 AM	Elias Heimisson, Paul Segall	Imaging a propagating dike through joint inversion of seismic and geodetic data: Application to the 2014 Bardarbunga dike, Iceland
PE11B-4	11:45 AM - 12:00 PM	Patricia A Mothes, Elizabeth H. Gaunt, Mario C. Ruiz, Minard L. Hall, Silvana Hidalgo	Step by Step Awakening at Cotopaxi Volcano: A new look at the geophysical beginnings of recent and past eruptions and conduit processes
PE11B-5	12:00 PM - 12:15 PM	Cynthia Werner, Christoph Kern, Diego Coppola, Daniel Rasmussen, Peter Kelly, John Lyons, Kristi Wallace, David Schneider, Rick Wessels	Linking gas emissions, lava extrusion, and melt S contents for a better understanding of shallow magmatic processes at Mount Cleveland volcano, Alaska
PE11B-6	12:15 PM - 12:30 PM	Eleazar Padrón, Pedro A. Hernández, Germán D. Padilla, Gladys V. Melián, Nemesio M. Pérez, Carlo Arcilla, Alfredo Mahar Lagmay, Fátima Rodríguez, Mar Alonso, Maria Criselda Baldago, Gerald Quina, Mario A. Aurelio	Monitoring diffuse CO ₂ degassing for the volcanic surveillance of Taal volcano, Philippines
PE11B-7	12:30 PM - 12:45 PM	Julien Barrière, Adrien Oth, Nicolas M. Pérez, Nicolas Theys, Jeffrey Johnson, François Kervyn	Monitoring volcano seismicity, infrasound and SO ₂ degassing patterns in the Virunga Volcanic Province, Democratic Republic of the Congo
PE11B-8	12:45 PM - 1:00 PM	Nemesio Pérez, Susi Pepe, Francesco Montrond, Claudio De Luca, Pietro Tizzani, Luca D'Auria, Samara Dionis, Paulo Fernandes, Sonia V. Silva, Fátima Rodríguez, Marta García-Merino, Rubén García-Hernández, Eurico Montrond, Vera Alfama, Jeremías Cabral, José M. Pereira, Eleazar Padrón	Diffuse degassing and deformation monitoring at the oceanic volcanic island of Brava, Cape Verde

VH11A: V.6 Volcanic ash and gas: Generation, transport and impacts on infrastructure, aviation, and climate I

Monday August 14, 2017. 11:00 AM - 1:00 PM Room B114-115

Abstract Number	Time	Authors	Title
VH11A-1	11:00 AM - 11:15 AM	William M. Moreland, Thorvaldur Thordarson, Bruce F. Houghton, Gudrun Larsen	The nature of explosive activity during the 10th century Eldgjá fissure eruption, southern Iceland
VH11A-2 (invited)	11:15 AM - 11:30 AM	Alvaro Amigo, Daniel Bertin	Recent eruptions in the Andean Southern Volcanic Zone: surveillance, processes and impacts
VH11A-3	11:30 AM - 11:45 AM	Benjamin Clarke, Eliza Calder, Joaquin Cortes, Mark Naylor, Firawalin Dessalegn, Ian Butler, Karen Fontijn, William Hutchison	Achneliths with Evidence of Post-Emplacement Vesiculation at Aluto Volcano, Main Ethiopian Rift: New constraints on Fragmentation and Eruptive Styles at Peralkaline Rhyolite Volcanoes
VH11A-4	11:45 AM - 12:00 PM	Alison Rust, Katharine Cashman	Spatial variations in ash properties – controls from petrology to sedimentation
VH11A-5	12:00 PM - 12:15 PM	Jennifer Saxby, Katharine Cashman, Alison Rust, Frances Beckett	From needles to plates: extreme volcanic ash shape and implications for ash dispersion modelling
VH11A-7	12:30 PM - 12:45 PM	Ana Casas, Fabian Wadsworth, Jeremie Vasseur, Paul Ayris, Corrado Cimarelli, Donald B. Dingwell	In-plume gas scavenging: An insight into gas adsorption, ash-surface chemistry and the role of water
VH11A-8	12:45 PM - 1:00 PM	Sebastian Mueller, Ulrich Kueppers, Jonathan Ametsbichler, Corrado Cimarelli, Jonathan Merrison, Matthieu Poret, Fabian Wadsworth, Donald Dingwell	Deposition or not? The fate of volcanic ash aggregates

VH11B: V.7 Volcano geology and geological mapping as tools for unravelling volcanic history and long term hazards assessment I

Monday August 14, 2017. 11:00 AM - 1:00 PM Room B110-112

Abstract Number	Time	Authors	Title
VH11B-1 (invited)	11:00 AM - 11:30 AM	Guido Giordano	Volcano Geology and mapping
VH11B-2	11:30 AM - 11:45 AM	Robert Askew, Thor Thordarson, Phil Gans	Geological mapping of Breiðdalur volcano: Evolution and structure of a Neogene central volcano in Iceland
VH11B-3	11:45 AM - 12:00 PM	Yoshihiko Goto, Jocelyn McPhie	Tectonics, structure and resurgence of the largest Quaternary caldera in Japan: Kutcharo, Hokkaido

VH11B-4	12:00 PM - 12:15 PM	Tetsuo Kobayashi	Precursory sequence to the caldera-forming eruption deduced from the outcrops of two caldera volcanoes in Kyushu, Japan
VH11B-5	12:15 PM - 12:30 PM	Gerardo Carrasco	U/Th and 40Ar/39Ar dating revealing a new evolutionary model of Los Hornos caldera formation: Implications for its geothermal potential
VH11B-6	12:30 PM - 12:45 PM	Graham Leonard, Andrew Calvert, Colin Charlier, Bruce Houghton, Dougal Townsend, Marvin Lanphere, John Begg, Darren Gravley, Drew Downs, Pilar Villamor, Julie Rowland, Michael Rosenberg, Bruce Charlier	The life and times of central Taupo Volcanic Zone: 15 years of mapping and geochronology illuminate the episodic evolution of Earth's most productive silicic volcanic system
VH11B-7	12:45 PM - 1:00 PM	Shane Cronin, Magret Damaschke, Rafael Torres-Orozco, Michael Turner, Thomas Platz, Anke Zernack, Jonathan Procter, Geoff Lerner, Mark Bebbington, Ian Smith, Richard Price	Stratovolcano "pulse" observed through a decadal multicomponent, high-resolution volcanic study at Mt. Taranaki, New Zealand

ER11A: VI.2 New approaches to understanding magma and volatile evolution, sub-volcanic intrusions and porphyry ore mineralization I

Monday August 14, 2017. 11:00 AM - 1:00 PM Room B113

Abstract Number	Time	Authors	Title
	11:00 AM - 11:15 AM		Open
ER11A-2	11:15 AM - 11:30 AM	Massimo Chiaradia, Luca Caricchi	Crustal magmatic processes controlling the formation of porphyry copper deposits
ER11A-3	11:30 AM - 11:45 AM	Thomas Benson	Large lithium deposits hosted in intracontinental rhyolitic calderas
ER11A-4	11:45 AM - 12:00 PM	Marie Edmonds, Tamsin Mather, Emma Liu	Tracking metal pathways in magmas using volcanic gases
ER11A-5	12:00 PM - 12:15 PM	Oleg Melnik, Andrey Afanasyev, Ivan Utkin, Yulia Tsvetkova	Brine lens formation above degassing magma chamber
ER11A-6	12:15 PM - 12:30 PM	Amy Gilmer, R. Stephen J. Sparks, Jon D. Blundy, Alison Rust	A hypabyssal perspective: magmatic processes in the Don Manuel igneous complex and porphyry copper system, central Chile
ER11A-7	12:30 PM - 12:45 PM	Carter Grondahl, Zoltan Zajacz	Magmatic controls on the genesis of the giant Bingham Canyon porphyry Cu-Mo-Au deposit
ER11A-8	12:45 PM - 1:00 PM	John Dilles, Nansen Olson, Michelle Campbell	Zircon geochemistry as a recorder of arc magmatic processes related to porphyry copper formation: Evidence from SHRIMP-RG and LA-ICP-MS data

Lunchtime Keynote

Monday August 14, 2017. 1:30 PM - 2:15 PM Ballroom 201-203

1:30 PM - 2:15 PM	John Pallister	The Volcano Disaster Assistance Program (VDAP): Humanitarian Assistance and Science Since 1986
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ME12A: II.7 Architecture of magmatic plumbing systems II

Monday August 14, 2017. 2:30 PM - 4:30 PM Ballroom 201-203

Abstract Number	Time	Authors	Title
ME12A-1	2:30 PM - 2:45 PM	Matthew Pritchard, Steve McNutt, Jo Gottsmann, Mike West, Shan de Silva, Martyn Unsworth, Steve Sparks, Jon Blundy, Scott Henderson, Estela Minaya, Jon Perkins, Noah Finnegan	Integrated geophysical and petrological constraints on crustal melt at the Altiplano-Puna deformation anomaly
ME12A-2	2:45 PM - 3:00 PM	Aaron Pietruszka, Jared Marske, Michael Garcia, Daniel Heaton, J. Michael Rhodes	An Isotopic Perspective into the Magmatic Architecture and Evolution of the Rift Zones of Kilauea Volcano
ME12A-3	3:00 PM - 3:15 PM	Ozge Karakas, Jörn-Frederik Wotzlaw, Zack McIntire, Olivier Bachmann, George Bergantz, Julian-Christopher Storck, Peter Ulmer, Josef Dufek	Constraining the heat budget and lifetime of crustal-scale magmatic systems: Insights from the Ivrea-Verbano Zone and Serie dei Laghi, Italy
ME12A-4	3:15 PM - 3:30 PM	Masafumi Sudo, Manfred Strecker, Andrea Friese, Kai Hahne, Simon Riedl, Tito Lopeyok, Geoffrey Mibei	Temporal change in geochemistry of volcanic rocks along the volcano-tectonic axis of the northern Kenya Rift: Insights from the Ar/Ar geochronology and whole-rock chemistry at Paka
ME12A-5	3:30 PM - 3:45 PM	Craig Miller, Glyn Williams-Jones, Dominique Fournier, Jeff Witter	3D gravity inversion and thermodynamic modelling reveal properties of shallow silicic magma reservoir beneath Laguna del Maule, Chile
ME12A-6	3:45 PM - 4:00 PM	Judy Fierstein	Postglacial eruptive history from tephra-lava correlations provide window into magmatic system beneath Laguna del Maule, Chile
ME12A-7	4:00 PM - 4:15 PM	Brad Singer, Hélène Le Mével, Joseph M. Licciardi, Loreto Córdova, Basil Tikoff, Nicolas Garibaldi, Angela K. Diefenbach, Nathan L. Andersen	Integrating geomorphology, geochronology, and numerical modeling of 60 meter surface inflation to reveal Holocene growth of the silicic magma reservoir beneath Laguna del Maule, Chile

ME12A-8	4:15 PM - 4:30 PM	Maren Wanke, Ozge Karakas, Olivier Bachmann	The magmatic plumbing system beneath Mount St. Helens
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ME12B: II.10 A tribute to the life and work of Jon Davidson (1959-2016) II
Monday August 14, 2017. 2:30 PM - 4:30 PM Room A107-109

Abstract Number	Time	Authors	Title
ME12B-1	2:30 PM - 3:00 PM (invited)	Claire McLeod, Jon Davidson, Shanaka de Silva	Probing the Depths of Continental Arc Magmatism: Insights from the Minor Volcanic Centers of the Bolivian Andes
ME12B-2	3:00 PM - 3:15 PM	Gerhard Wörner, Magdalena Blum-Oeste, John Hora, Axel K Schmitt, Wencke Wegner	Changing regimes in central Andean magma systems
ME12B-3	3:15 PM - 3:30 PM	Michael Dungan, Stephen Turner, Charles Langmuir, Leif Karlstrom	Mantle sources of lithospheric components in Quaternary magmas of the northern, thick-crust portion of the Andean Southern Volcanic Zone (33-36°S), Chile
ME12B-4	3:30 PM - 4:00 PM (invited)	Jon Blundy, Duncan Muir, Luca Ziberna, Richard Brooker	Dacite Petrogenesis at Cerro Uturuncu Volcano, Bolivia
ME12B-5	4:00 PM - 4:15 PM	Josef Dufek, Nathan Andersen	The Growth, Dynamics and Longevity of Silicic Magma Bodies: Crustal Forensics in Two Restless Andean Magmatic Systems
ME12B-6	4:15 PM - 4:30 PM	Dale Burns, Shanaka de Silva, Frank Tepley	From the crystal to the arc: Using crustal forensics to understand the development and evolution of continental magmatic arcs

PE12A: III.5 Processes leading to monogenetic volcanism II
Monday August 14, 2017. 2:30 PM - 4:30 PM Room A106

Abstract Number	Time	Authors	Title
PE12A-1	2:30 PM - 2:45 PM	Catherine Lit, Lucia Gurioli, Benjamin van Wyk de Vries, Pierre Boivin, Didier Miallier	How the Chopine eruption developed- a monogenetic trachytic eruption
PE12A-2	2:45 PM - 3:00 PM	Cody Nichols, Alison Graettinger	Regional Tectonic Control on the Shape of Maar Craters
PE12A-3 (invited)	3:00 PM - 3:15 PM	Jozua van Otterloo, Alexander R. Cruden	Unique intra-vent folded dyke and peperite: new mechanism for magma-water mixing
PE12A-4	3:15 PM - 3:30 PM	David Sherrod	Diamond Craters, Oregon: the transition of a Holocene subaerial dry eruption to phreatomagmatic
PE12A-5	3:30 PM - 3:45 PM	Audray Delcamp, Hannes Mattsson, Lucia Gurioli, Christian Bircher, Engelbert Sakoma, Lore Steyaert, Houria Belkus, Matthieu Kervyn	Towards an understanding of the North Tanzanian maar crater formation from a cross-disciplinary perspective
PE12A-6	3:45 PM - 4:00 PM	James Muirhead, Alexa Van Eaton, Nicolas Le Corvec, Giuseppe Re, James White, Michael Ort	The architecture and development of shallow monogenetic feeder systems: perspectives from extinct volcanic fields
PE12A-7	4:00 PM - 4:15 PM	Andrew Harp, Greg Valentine	Emplacement controls for the basalt-andesite radial dikes of Summer Coon Volcano, CO, USA
PE12A-8	4:15 PM - 4:30 PM	Ainhoa Lorenzo, Marie-Noëlle Guilbaud, Julie Roberge	Violent-Strombolian eruptions at monogenetic volcanoes and their hazards: The case of the 10 ka Pelado shield, Sierra Chichinautzin, Central México

PE12B: III.6 Linking monitoring data with volcanic processes II
Monday August 14, 2017. 2:30 PM - 4:30 PM Room B117-119

Abstract Number	Time	Authors	Title
PE12B-1	2:30 PM - 2:45 PM	Benjamin Bernard, Krupskaia Acuña, Diego F. Narvaez, Alicia Guevara, Marjorie Encalada, Santiago Santamaría, Jean Battaglia, Daniel Sierra, Stephen Hernandez	Cracking the ash code at Tungurahua volcano
PE12B-2	2:45 PM - 3:00 PM	Julie Roberge, Alison Rust, Kathy Cashman	Popocatepetl's shades of grey: a detailed petrology study of ashes from 2008 to 2015
PE12B-3	3:00 PM - 3:15 PM	Diana Roman	Automated detection and characterization of harmonic tremor at Popocatepetl Volcano, Mexico
PE12B-4	3:15 PM - 3:30 PM	John Lyons, Matthew Haney, David Fee, Alex Iezzi, Hans Schwaiger	Infrasound from the shallow submarine eruption of Bogoslof volcano, Alaska
PE12B-5	3:30 PM - 3:45 PM	Aaron Wech, Matt Haney	Probing Bogoslof volcano eruption dynamics using a catalog of repeating earthquakes
PE12B-6	3:45 PM - 4:00 PM	Taryn Lopez, Lleven Clarisse, Simon Wallace, Fred Prata, David Fee, Hans Schwaiger, Alexa Van Eaton, Peter Cervelli, Cheryl Searcy, Matthew Haney, John Lyons, Aaron Wech, Kristi Wallace, Christopher Waythomas	Insight into eruption processes at Bogoslof volcano, Alaska through evaluation of SO2 masses and comparison with complementary datasets
PE12B-7	4:00 PM - 4:15 PM	Matthew Haney, David Fee, Robin Matoza, Alexa Van Eaton, Peter Cervelli, David Schneider, Alexandra Iezzi	Plume-tremor hysteresis: Analogies between fluvial seismology and co-eruptive volcano seismo-acoustics
PE12B-8	4:15 PM - 4:30 PM	Jeffrey Johnson, Jose Luis Palma, Nick Varley	Monitoring Lahars with Infrasound

PE12C: III.7 Combining geological data and numerical simulations for understanding the eruption dynamics and depositional processes I**Monday August 14, 2017. 2:30 PM - 4:30 PM Room A105**

Abstract Number	Time	Authors	Title
PE12C-1	2:30 PM - 2:45 PM	Sylvain Charbonnier, Charles Connor, Laura Connor, Jacob Richardson, Elodie Macorps	Assessing the performance of volcanic mass flow models using well-constrained geological data, validation metrics and Bayesian statistics
PE12C-2	2:45 PM - 3:00 PM	Tomofumi Kozono, Hideki Ueda, Taku Ozawa, Toshiki Shimbori, Keiichi Fukui, Takehiro Koyaguchi, Eisuke Fujita, Akihiko Tomiya	The dynamics of the 2011 Kirishima-Shinmoe-dake eruptions, Japan, revealed by tiltmeter, satellite, and weather radar observations
PE12C-3	3:00 PM - 3:15 PM	Maurizio Battaglia, Mike Lisowski, Dan Dzurisin, Mike Poland, Steve Schilling, Angie Diefenbach, Jeff Wynn	Magma Intrusion at Mount St. Helens, Washington, from Temporal Gravity Variations
PE12C-4	3:15 PM - 3:30 PM	Jean-Christophe Komorowski, Marc Peruzzetto, Marina Rosas-Carbajal, Anne Le Friant, Anne Mangeney, Yoann Legendre	New insights on flank-collapse and directed explosions hazards from hydrothermal eruptions at La Soufrière de Guadeloupe (Lesser Antilles)
PE12C-5	3:30 PM - 3:45 PM	Silvia Massaro	Time evolution of magma feeding system during a Plinian eruption
PE12C-6	3:45 PM - 4:00 PM	Tomaso Esposti Ongaro, Mattia de' Michieli Vitturi, Marco Pistolesi, Federico Di Traglia, Costanza Bonadonna, Mauro Rosi	Physical modelling and numerical simulation of a shallow hydrothermal explosion: PDC generation and ballistic ejection during the 13th century "Breccia di Commenda" eruption (Vulcano island, Italy)
PE12C-7	4:00 PM - 4:15 PM	James Gardner, Caroline Nazworth, Mark Helper, Benjamin Andrews	Standing Trees in the Midst of Destruction: Insights into the 18 May 1980 Pyroclastic Density Current
PE12C-8	4:15 PM - 4:30 PM	Paraskevi Nomikou, Tim Druitt, Christian Watts, Tamsin Mather, Michele Paulatto, Lara Kalnins, Karim Kelfoun, Dimitris Papanikolaou, Konstantina Bejelou, Danai Lampridou, David Pyle, Steven Carey, Anthony Watts, Benedikt Weiß, Michelle Parks	Post-eruptive flooding of Santorini caldera and implications for tsunami generation

VO12A: IV.5 The role of volatiles in volcanic systems of the Earth's lithosphere I**Monday August 14, 2017. 2:30 PM - 4:30 PM Room B113**

Abstract Number	Time	Authors	Title
VO12A-1	2:30 PM - 2:45 PM	Christian Huber, Andrea Parmigiani, Olivier Bachmann, Wim Degruyter	Outgassing in shallow arc magma reservoirs
VO12A-2	2:45 PM - 3:00 PM	Tom Sisson, John Power, Matt Haney	The deep-crustal roots of arc stratovolcanoes illuminated by long-period seismicity caused by degassing and fluid-enhanced wallrock embrittlement
VO12A-3	3:00 PM - 3:15 PM	Huaiwei Ni	OH diffusion in basaltic and andesitic melts: implication for electrical signature of magma reservoirs
VO12A-4	3:15 PM - 3:30 PM	Ben Ellis, Dawid Szymanowski, Tomas Magna, Julia Neukampf, Olivier Bachmann, Peter Ulmer, Marcel Guillong	Post-eruptive behaviour of Li in volcanic rocks: implications for element cycling
VO12A-5	3:30 PM - 3:45 PM	Mike Burton, Antonio Chiarugi, Francesco D'Amato, Silvia Viciani, Manuel Queisser, Gayatri Marliyani, Ferian Anggara, Agung Harijoko	New constraints on volcanic CO ₂ emissions from Java, Indonesia
VO12A-6	3:45 PM - 4:00 PM	Mike Krawczynski, Maxim Gavrilenko, Philipp Ruprecht	Possible existence of deep super-hydrous arc magmas: implications from high-Mg amphibole
VO12A-7	4:00 PM - 4:15 PM	Paul Wallace, Kristina Walowski, Ellen Aster	Determining H ₂ O and CO ₂ contents of basaltic arc magmas using melt inclusions: Diffusive H loss, shrinkage bubble formation, and the CO ₂ contents of primary melts
VO12A-8	4:15 PM - 4:30 PM	Marie Edmonds, Emily Mason, Alexandra Turchyn	Earth's exhaust pipe: understanding carbon budgets at arc volcanoes

VH12A: V.6 Volcanic ash and gas: Generation, transport and impacts on infrastructure, aviation, and climate II**Monday August 14, 2017. 2:30 PM - 4:30 PM Room B114-115**

Abstract Number	Time	Authors	Title
VH12A-1	2:30 PM - 2:45 PM	Alexandros Poulidis, Tetsuya Takemi, Masato Iguchi, Ian Renfrew	Topographic and meteorological controls on the dispersal and deposition of volcanic ash
VH12A-2	2:45 PM - 3:00 PM	Alejandro Marti, Arnau Folch	Meteorological coupling on volcanic ash modeling: a first order source of error for operational volcanic forecast?
VH12A-3	3:00 PM - 3:15 PM	Adelina Geyer, Alex Marti, Arnau Folch, Santiago Giral	Antarctic volcanoes: A remote but significant hazard
VH12A-4	3:15 PM - 3:30 PM	Eric Hughes, Nickolay Krotkov, Arlindo da Silva, Robert Hoffman, Tim Myers	Real-Time Modeling of Volcanic Clouds and their Application to Air Traffic Flow Algorithms
VH12A-5	3:30 PM - 3:45 PM	Eiichi Sato, Keiichi Fukui, Toshiki Shimbori, Kensuke Ishii, Tetsuo Tokumoto, Masayuki Maki, Masato Iguchi	Fine structure of volcanic ash plume observed by advanced weather radars
VH12A-6	3:45 PM - 4:00 PM	Martin Airey, Giles Harrison, Keri Nicoll, Paul Williams, Graeme Marlton	VolcLab: A balloon-borne instrument package to measure ash, gas, electrical, and turbulence properties of volcanic plumes
VH12A-7	4:00 PM - 4:15 PM	Catherine Hayer, Lucy Ventress, Elisa Carboni, Roy Grainger, Simon Carn	Satellite observations of atmospheric emissions from the April 2015 eruption of Calbuco volcano, Chile

VH12A-8 (invited)	4:15 PM - 4:30 PM	Clive Oppenheimer	Multiproxy evidence for timing and impact of medieval volcanic eruptions
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VH12B: V.7 Volcano geology and geological mapping as tools for unravelling volcanic history and long term hazards assessment II
Monday August 14, 2017. 2:30 PM - 4:30 PM Room B110-112

Abstract Number	Time	Authors	Title
VH12B-1 (invited)	2:30 PM - 3:00 PM	Wes Hildreth, Judy Fierstein	Constructing an Eruptive History Demands Detailed Mapping
VH12B-2	3:00 PM - 3:15 PM	Joel Robinson, Drew Downs	Integrating Technology and Geologic Mapping
VH12B-3	3:15 PM - 3:30 PM	Natalia Pardo, Bernardo Pulgarín, Valentina Betancourt, Federico Lucchi, Llerónimo Valencia	Volcano geological mapping at low-latitudes: successful application of Unconformity-bounded units at the Doña Juana Volcanic Complex, SW-Colombia
VH12B-4	3:30 PM - 3:45 PM	Stephen Kuehn, Eric Arrington, Jared Rose, James Frye, Savannah Ballengee, Addison Hostetler, Cameron McNeely	Pyroclastic eruptive history of the Three Sisters volcanic cluster, Cascade arc, Oregon, USA
VH12B-5	3:45 PM - 4:00 PM	Long Li, Longqian Chen, Lien Bakelants, Carmen Solana, Frank Canters, Matthieu Kervyn	Using vegetation recovery as a lava flow age indicator
VH12B-6	4:00 PM - 4:15 PM	Patricia Sruoga, Manuela Elisondo, Mario Rosas, Judy Fierstein, Bradley Singer, Nathan Andersen	CERRO BARRANCAS, LAGUNA DEL MAULE VOLCANIC FIELD, CHILE: eruptive stratigraphy and hazard assessment
VH12B-7	4:15 PM - 4:30 PM		Discussion

FT12A: VI.2 New approaches using statistical methods in volcanology I
Monday August 14, 2017. 2:30 PM - 4:30 PM Room B116

Abstract Number	Time	Authors	Title
FT12A-1 (invited)	2:30 PM - 2:45 PM	Juliet Biggs, Marie Edmonds, Brendan McCormick, Kilbride, Matthew Pritchard	Statistical and physical approaches to interpreting satellite observations of volcanic activity
FT12A-2	2:45 PM - 3:00 PM	Gabor Kereszturi, Jonathan Procter, Lauren N. Schaefer, Reddy Pullanagari, Stuart Mead, Ben Kennedy, Ian Yule	Airborne hyperspectral imaging for monitoring active volcanic system – Lithological and hydrothermal alteration mapping of the Upper Te Maari craters, Tongariro Volcanic Complex, New Zealand
FT12A-3	3:00 PM - 3:15 PM	Patrick Whelley, Stephen P. Scheidt, W. Brent Garry, Jacob Richardson, Christopher W. Hamilton, Jacob Bleacher	Comparison and fusion of ultra-high-resolution topographic data at Kīlauea volcano, Hawaii
FT12A-4	3:15 PM - 3:30 PM	Jonathan Lees, Daniel Bowman	Volcano Infrasound From the Stratosphere
FT12A-5 (invited)	3:30 PM - 3:45 PM	Mark Bebbington, Susanna Jenkins	So you have an eruption – how do you forecast what happens next?
FT12A-6	3:45 PM - 4:00 PM	Regis Rutarindwa, Elaine Spiller, Marcus Bursik, Andrea Bevilacqua	A probabilistic hazard mapping tool for the Long Valley volcanic region (CA, USA)
FT12A-7	4:00 PM - 4:15 PM	Jacob Richardson, James Wilson, Charles Connor, Aurelie Germa, Christopher Perry, Koji Kiyosugi	Volcanic Event Age Model: Consolidating multiple date models to estimate recurrence rate
FT12A-8	4:15 PM - 4:30 PM	Samantha Engwell, Melanie Duncan, Susan Loughlin, Andrew Tupper	Informing eruption source parameters from volcanic ash advisories

MT13A: I.1 Planetary volcanology II Posters

Monday August 14, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
MT13A-001	4:30 PM - 6:30 PM	David Leverington	Constraints on the nature of the effusive volcanic eruptions that incised Kasei Valles, Mars
MT13A-002	4:30 PM - 6:30 PM	Ashley Davies, Sarath Gunapala, David Ting, Sir Rafol, Alexander Soibel, Paul Hayne, Megan Blackwell, Michael Kelly	Measuring Lava Eruption Temperatures Remotely with a Novel Infrared Detector and Digital Readout Circuit: Implications for Observing Planetary Volcanism
MT13A-003	4:30 PM - 6:30 PM	Gabriel Eggers, James Wray, Josef Dufek	Feldspathic Rock on Mars: Compositional Mapping of Nili Patera, Syrtis Major
MT13A-004	4:30 PM - 6:30 PM	David Crown, Daniel Berman, Thomas Platz, Stephen Scheidt	Lava Flow Fields on the Western Flanks of Alba Mons, Mars
MT13A-005	4:30 PM - 6:30 PM	Daniel Miggins, Anthony Koppers	Look out 14C! Here comes high precision 40Ar/39Ar geochronology into the Holocene
MT13A-006	4:30 PM - 6:30 PM	Patrick McGovern	Intra- and Trans-(Impact)-Basin Igneous Provinces on the Terrestrial Planets
MT13A-007	4:30 PM - 6:30 PM	Amanda Stadermann, Christopher Hamilton, Catherine Neish	Mapping Lunar Impact Melt Around Giordano Bruno Crater

ME13A: II.6 Volcanism and magmatism under water or ice II Posters

Monday August 14, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
ME13A-008	4:30 PM - 6:30 PM	James Gill, Everton Bongioiolo, Takashi Miyazaki, Martin Jutzeler, Cedric Hamelin, Ann-Sophie Jonas, Susan DeBari, Megan Yakavonis	Tuffaceous mud is a volumetrically important volcanoclastic facies of submarine arc volcanism
ME13A-009	4:30 PM - 6:30 PM	Jong-Hwa Chun, Yuri Kim	Tephra layers in deep-sea UBGH cores derived from submarine explosive volcanic eruptions at the South Korea Plateau, East Sea
ME13A-010	4:30 PM - 6:30 PM	Kenichiro Tani, Osamu Ishizuka, Iona McIntosh, Alexander Nichols, Yuka Masaki, Fumihiko Ikegami, Hirochika Sumino, Takashi Toyofuku	Oomurodashi Volcano, northern Izu-Bonin Arc: Long term edifice growth under shallow sea environment and its potential hazards
ME13A-011	4:30 PM - 6:30 PM	Marek Awdankiewicz, Ryszard Kryza, Krzysztof Turniak, Maria Ovtcharova, Michael Wiedenbeck	CA-ID-TIMS ages and oxygen isotope signatures of zircons from the Sudetic Ophiolites – constraints on the origin of Palaeozoic oceanic domains in the Variscan Belt
ME13A-012	4:30 PM - 6:30 PM	Sarah Tapscott, Þorvaldur Þórðarson	Clast density comparison between the rooted cone tephra and the Grámelur rootless cone tephra of the Nesjahraun lava flow, Þingvellir, SW Iceland
ME13A-013	4:30 PM - 6:30 PM	Meagen Pollock, Benjamin Edwards, Chloe Wallace, Alex Hiatt, Sheila Seaman	Multiple pillow-forming eruptions under changing water/ice conditions revealed in an ancient pillow-dominated tindar in southwest Iceland
ME13A-014	4:30 PM - 6:30 PM	Michael Hudak, Ilya Bindeman	Extreme δD and $\delta^{18}O$ depletion of glass in Mt. Mazama pinnacles: Developing a snapshot paleoclimate tool using H and O isotopes in hot and cooling glass
ME13A-015	4:30 PM - 6:30 PM	David Zakharov, Ilya Bindeman	Triple oxygen systematics of hydrothermally altered rocks: A new tool in studying water-rock interaction
ME13A-016	4:30 PM - 6:30 PM	Ilya Bindeman	Ice burial by caldera collapse: Thermal and isotopic effects on hydration of volcanic glass
ME13A-017	4:30 PM - 6:30 PM	Carolyn Branecky, Tobias Keller, Peter Huybers, Wim Degruyter, Michael Manga	The relationship between deglaciation and volcanism in arc settings: the example of the Mount Mazama volcanic system, Crater Lake, Oregon
ME13A-018	4:30 PM - 6:30 PM	Jonathan Moles, Dave McGarvie, Sarah Sherlock, John Stevenson, Peter Abbott	Long-range tephra dispersal and ignimbrite emplacement from a large rhyolitic glaciovolcanic eruption
ME13A-019	4:30 PM - 6:30 PM	Tehnuka Ilanko, Tobias Fischer, Laura Crossey, Aaron Curtis, Philip Kyle, Hyunwoo Lee, Yuji Sano	Subnivean degassing in the summit area of Erebus volcano, Antarctica
ME13A-020	4:30 PM - 6:30 PM	Ian Skilling, David McGarvie	Jokulhlaup Deposition on Actively Inflating Subaerial Basaltic Lava Flows: A New Model for the Sida Formation, SE Iceland
ME13A-021	4:30 PM - 6:30 PM	Ben Edwards, Meagen Pollock, William Kochtitzky, Ellen Was	Constraints on the evolution of glaciovolcanic pillow-dominated tindars from Iceland and British Columbia
ME13A-022	4:30 PM - 6:30 PM	Chris Conway, Graham Leonard, Dougal Townsend, Colin Wilson, Andrew Calvert, John Gamble, Shaun Eaves	Lava-ice interaction at Mount Ruapehu, New Zealand: implications for reconstructing glacier extents, edifice growth histories and magma flux rates at stratovolcanoes
ME13A-023	4:30 PM - 6:30 PM	Jodi M. Fox, Jocelyn McPhie, Rebecca J. Carey	Basaltic cryptodomes and daily records of phreatomagmatic eruption – Miocene submarine volcanism at Cape Grim, Tasmania, Australia

ME13B: II.7 Architecture of magmatic plumbing systems III Posters**Monday August 14, 2017. 4:30 PM - 6:30 PM Exhibit Hall A**

Abstract Number	Time	Authors	Title
ME13B-024	4:30 PM - 6:30 PM	Sara Rodríguez-Molina, María Charco, Ana M. Negro, Pablo J. González, Mike Poland, David A. Schmidt	Coupling the effects of conduit magma flow into a viscoelastic chamber to model volcano surface deformation: An application to Three Sisters volcano, Oregon, USA
ME13B-025	4:30 PM - 6:30 PM	Ashton Flinders, David Shelly, David Hill, Phillip Dawson, Yang Shen	Full-Wave Ambient Noise Tomography of the Long Valley Volcanic Region (California)
ME13B-026	4:30 PM - 6:30 PM	Freysteinn Sigmundsson, Vincent Drouin, Michelle Brandsdóttir, Stéphanie Dumont, Siqi Li, Andrew Hooper, Benedikt G. Ofeigsson, Sigrun Hreinsdóttir, Halldor Geirsson, Pall Einarsson, Magnus Tumi Gudmundsson, Kristin Jonsdóttir, Kristin Vogfjörð, Saemundur Ari Halldorsson, Olgeir Sigmarsson, Sigurdur H. Markussón, Knutur Arnason, Lea Levy, Gylfi Pall Hersir, Martyn Unsworth, Rikke Pedersen, Erik Sturkell, Bryndis Brandsdóttir, Kristjan Agustsson, Elias Rafn Heimisson	Magma domain models of Icelandic volcanoes: Reconciling volcano geodesy with multidisciplinary constraints
ME13B-027	4:30 PM - 6:30 PM	Brandon Chiasera	Magmatically assisted off-rift extension – a study of the Galema range
ME13B-028	4:30 PM - 6:30 PM	Ashton Flinders	Seismic evidence for a possible deep crustal hot zone beneath Southwest Washington
ME13B-029	4:30 PM - 6:30 PM	Weston Thelen, Seth Moran, David Shelly	The Cascade Volcanoes Are Alive With The Sound of Earthquakes
ME13B-030	4:30 PM - 6:30 PM	Karen Harpp, Darin Schwartz, Emily Wilson, Maggie McGuire, Zachary Cleary, Jake Mahr, Regina Pimentel, Rita Van Kirk, Hannah Bercovici, Eric Mittelstaedt, Mark Kurz, Dennis Geist	The Evolution of Galapagos Volcanoes
ME13B-031	4:30 PM - 6:30 PM	Ben Heath, Emilie Hooft, Doug Toomey, Joanna Morgan, Costas Papazachos, Paraskevi Nomikou, Michael Warner	Upper crustal structure of Santorini Volcano and the surrounding region from dense, active-source seismic data
ME13B-032	4:30 PM - 6:30 PM	Halldor Geirsson, Nicolas d'Oreye, Adriano Nobile, Benoît Smets, François Kervyn	Volcano-tectonic deformation in the Kivu Region, Central Africa, observed by continuous GNSS observations of the Kivu Geodetic Network (KivuGNet) and InSAR time series analysis

ME13B-033	4:30 PM - 6:30 PM	Cindy Mora-Stock, Luca De Siena, Roberto Guardo, Gonzalo Carreño	3D Attenuation Tomography at Villarrica volcano (Chile): Preliminary Results
ME13B-034	4:30 PM - 6:30 PM	John M. Londono, Hiroyuki Kumagai	4D seismic tomography for Nevado del Ruiz Volcano, Colombia. 2000-2016
ME13B-035	4:30 PM - 6:30 PM	T. Dylan Mikesell, Jordan Bishop, Luis Franco Marin, Jonathan Lees, Berk Biryol, Rebecca Rodd	A seismic look at the internal structure of Llaima Volcano, Chile
ME13B-036	4:30 PM - 6:30 PM	Dini Nurfiani, Anna Foster, Wang Xin, Hendra Gunawan, Dannie Hidayat, Wei Shengji, Benoit Taisne, Caroline Bouvet	Combining petrologic and seismic studies to constrain magma storage conditions beneath Marapi volcano, West Sumatra, Indonesia
ME13B-037	4:30 PM - 6:30 PM	Tomoki Tsutsui, Masato Iguchi, Takeshi Tameguri, Haruhisa Nakamichi	Evolving seismic reflectors and magma supply system in Sakurajima Volcano and Aira Caldera, Japan
ME13B-038	4:30 PM - 6:30 PM	Federica Lanza, Clifford H. Thurber, Ellen M. Syracuse, Abhijit Ghosh, John Power	High-resolution seismic velocity structure of Makushin Volcano, Alaska
ME13B-039	4:30 PM - 6:30 PM	Winchelle Ian Sevilla, Christian Joseph Clarito, April Angelique Dominguito, Allan Loza, Paolo Reniva, Juan Cordon, Lawrence Aaron Banes, Ricardo Seda	Imaging the seismic velocity structure under Taal Volcano, Philippines
ME13B-040	4:30 PM - 6:30 PM	Alicia Hotovec-Ellis, David Shelly, David Hill, Andrew Pitt, Phillip Dawson, Bernard Chouet	Investigating the relationship between deep long-period and deep high frequency seismicity at Mammoth Mountain, California, 2012 – 2014
ME13B-041	4:30 PM - 6:30 PM	Carl Ulberg, Kenneth Creager, Seth Bachmann, Geoffrey Abers, Kayla Crosbie, Robert Crosson, Roger Denlinger, Weston Thelen, Steven Hansen, Brandon Schmandt, Eric Kiser, Alan Levander, Olivier Bachmann	Local Earthquake Tomography at Mount St. Helens with the iMUSH Broadband Array
ME13B-042	4:30 PM - 6:30 PM	Ninfa Bennington, Paul Bedrosian, Matthew Haney, Kerry Key	Magnetotelluric and Seismic Investigations of Magma Storage Beneath Okmok Volcano, Alaska
ME13B-043	4:30 PM - 6:30 PM	Kathrin Laeger, Armin Freundt	Post-glacial magma storage conditions at Laguna del Maule, Chile
ME13B-044	4:30 PM - 6:30 PM	Ahmad Basuki, Dannie Hidayat, Hendra Gunawan	Preliminary results 3D local earthquake tomography at Gede Volcano, West Java, Indonesia
ME13B-045	4:30 PM - 6:30 PM	John Murray	Recent inflation at Masaya volcano, Nicaragua
ME13B-046	4:30 PM - 6:30 PM	Naoki Araya, Michihiko Nakamura, Satoshi Okumura, Atsushi Yasuda	Repeated Plinian eruptions from the shallow thick conduit in Sakurajima Volcano
ME13B-047	4:30 PM - 6:30 PM	Clifford Thurber, Crystal Weststad, Carlos Cardona, Bethany Vanderhoof, Ninfa Bennington, Xiangfang Zeng, Federica Lanza, Katie Keranen	Seismic investigation of the rhyolitic magma system beneath the Laguna del Maule volcanic field, Chile
ME13B-048	4:30 PM - 6:30 PM	Sergey Samoylenko, Natalia Gorbach	Shallow magma chamber beneath Young Shiveluch volcano (Kamchatka): preliminary results of physical modeling
ME13B-049	4:30 PM - 6:30 PM	Ryan Lloyd, Juliet Biggs, Yelebe Birhanu	Sustained Uplift at a Continental Rift Caldera
ME13B-050	4:30 PM - 6:30 PM	Shin Sato, Masao Ban, Yuki Nishi, Teruki Oikawa, Seiko Yamasaki	Temporal change of magma plumbing system in flourish time of Zao volcano, NE Japan
ME13B-051	4:30 PM - 6:30 PM	Kendall Wnuk, Christelle Wauthier	Temporal evolution of magma sources and surface deformation at Pacaya Volcano, Guatemala revealed by InSAR
ME13B-052	4:30 PM - 6:30 PM	Chris Moore, Tim Wright, Andy Hooper, Juliet Biggs, Talfan Barnie	The 2017 eruption of Erta Ale, Afar, Ethiopia: Insights from Satellite Geodesy
ME13B-053	4:30 PM - 6:30 PM	Baptiste Haddadi, Olgeir Sigmarsson, Marion Carpentier, Gudrun Larsen	The magma system of Grímsvötn volcano and eruption magnitudes
ME13B-054	4:30 PM - 6:30 PM	Margaret Glasgow	Upper crustal long period microseismicity at Mount St. Helens during volcanically inactive period
ME13B-055	4:30 PM - 6:30 PM	Aline Peltier, Jean-Luc Froger, Nicolas Villeneuve, Thibault Catry, Allan Derrien, Sergey Samsonov, Wanpeng Feng, Halldor Geirsson, Nicolas d'Oreye	Using ground, airborne and spaceborne methods to retrieve magma paths at Piton de la Fournaise (La Réunion Island)
ME13B-056	4:30 PM - 6:30 PM	Constance Ozimek, Leif Karlstrom	A Thermo-mechanical-chemical magma chamber forward model for the prediction of eruptive cycles and chemical evolution
ME13B-057	4:30 PM - 6:30 PM	Colin Wilson, Elliot Swallow, Bruce Charlier, John Gamble	Diverse and contrasting mafic influences on the magmatic systems of the 2.08 Ma Huckleberry Ridge eruption, Yellowstone
ME13B-058	4:30 PM - 6:30 PM	Mitsuhiro Nakagawa, Akiko Matsumoto, Takeshi Hasegawa, Fukashi Maeno	Diversity and origin of large silicic magma system: Comparative petrological studies of recent caldera-forming eruptions in Japan
ME13B-059	4:30 PM - 6:30 PM	Jakub Sliwinski, Olivier Bachmann, Marcel Guillong, Matthew Zimmerer, Peter Lipman	Geochemical and geochronological comparison of cogenetic crystal-rich dacites and crystal-poor rhyolites in the Southern Rocky Mountain Volcanic Field, CO
ME13B-060	4:30 PM - 6:30 PM	Gregor Hahn, Mike Branney, Philip Leat	Geochemical fingerprinting and the correlation of welded ignimbrites: A case study from the nested calderas of the Borrowdale Volcanic Group, U.K.
ME13B-061	4:30 PM - 6:30 PM	Akihiko Tomiya, Yoshihiko Goto, Tohru Danhara, Shanaka de Silva	Magmatic conditions and preeruptive magma processes of the catastrophic eruption of high-silica rhyolite from Toya caldera, Japan
ME13B-062	4:30 PM - 6:30 PM	Yasuhiro Yanagida, Michihiko Nakamura, Atsushi YASUDA, Takeyoshi YOSHIDA	Melt inclusions in amphibole-bearing gabbroic xenoliths from the Ichinomegata maar, NE Japan: Snapshot of hydrous arc magma differentiation in the deep crust
ME13B-063	4:30 PM - 6:30 PM	Alexandre Carrara, Alain Burguisser	Numerical simulations of silicic magmatic chamber reawakening and mixing
ME13B-064	4:30 PM - 6:30 PM	Tyler Schlieder, Kari Cooper, Richard Bradshaw, Adam Kent, Christian Huber	Quantifying thermal history for the 1980-86 and 2004-05 eruptions of Mount St. Helens, USA
ME13B-065	4:30 PM - 6:30 PM	Tanis Leonhardi, Kenneth Befus, Michael Manga, Nobumichi Tamura	Residual Stresses in Zircon from Bishop Tuff Record Volcanic Stresses

ME13B-066	4:30 PM - 6:30 PM	Hillarie J. Sales, Martin J. Streck, William C. McIntosh	Spectacular co-eruption of crystal-poor rhyolite and Fe-rich andesite and its implication for mafic underpinnings to voluminous A-type rhyolites: The Wildcat Creek Tuff, eastern Oregon
ME13B-067	4:30 PM - 6:30 PM	Kevin Schrecengost, Kari Cooper, Philipp Ruprecht, Adam J.R. Kent, Christian Huber	Storage and Rejuvenation of Large Homogenous Dacitic Eruptions: a case study from the 1846/47 and 1932 Eruptions of Volcán Quizapu, Chile
ME13B-068	4:30 PM - 6:30 PM	Emily Salings, Gary Michelfelder, Shannon Rentz	The Bloodgood Canyon Tuff, Mogollon-Datil Volcanic Field, New Mexico: Relic of Thermal Destabilization in a Crystal Mush
ME13B-069	4:30 PM - 6:30 PM	Barbara Ratschbacher, C. Brenhin Keller, Blair Schoene, Scott Paterson, Lawford Anderson, David Okaya, Keith Putirka, Rachel Lippoldt	Time scales of construction and compositional evolution of a bimodal shallow crustal magma reservoir and implications for differentiation in the upper crust
ME13B-070	4:30 PM - 6:30 PM	Rebecca L. Astbury, Maurizio Petrelli, Daniele Morgavi, Chiara Maria Petrone, Diego Perugini	Using compositional zoning and chaotic mixing experiments to constrain timescales of plumbing system dynamics: Soufrière Hills Volcano, Montserrat
ME13B-071	4:30 PM - 6:30 PM	Stephen Pansino, Benoit Taisne	Communicating through stress, in the intimacy of a dynamic magmatic system
ME13B-072	4:30 PM - 6:30 PM	Frank Guldstrand, Steffi Burchardt, Erwan Hallot, Olivier Galland	Dynamics of Surface Deformation Induced by Dike and Cone Sheet Emplacement in a Cohesive Coulomb Brittle Crust
ME13B-073	4:30 PM - 6:30 PM	Filip Tomek, Jiří Žák, Martin Svojtka, Friedrich Finger, Michael Waitzinger, Vladislav Rappich	Emplacement dynamics of syn-collapse ring dikes: an example from the Altenberg-Teplice caldera, Bohemian Massif
ME13B-074	4:30 PM - 6:30 PM	Stuart Kenderes	Exploring the thermal effects of country rock type on the mobility of magma through conduits
ME13B-075	4:30 PM - 6:30 PM	Katie Ardill, Scott Paterson, Valbone Memeti, Jonathan Stanback, Sabrina Green, Evelyn Gutierrez	Hypabyssal porphyry intrusions across the central Sierra Nevada: characterizing vertical links between focusing plutonic and volcanic fields
ME13B-076	4:30 PM - 6:30 PM	Nicolas Le Corvec, Thierry Menand, Jean-Luc Froger, Valérie Cayol	Incremental growth of magma reservoirs: Insights on the room problem through the use of finite element models
ME13B-077	4:30 PM - 6:30 PM	Ben Rogers, Håvard S. Bertelsen, Olivier Galland	Magma intrusion in viscoelastic media: a laboratory model of coeval brittle and ductile deformation
ME13B-078	4:30 PM - 6:30 PM	Jozua van Otterloo, Alexander R. Cruden	Magma pathways in interconnected multi-dyke and sill systems
ME13B-079	4:30 PM - 6:30 PM	Erika Ronchin, Steffi Burchardt, Tobias Mattsson, Christoph Hieronymus	Modeling of magma emplacement processes during laccolith growth
ME13B-080	4:30 PM - 6:30 PM	Steffi Burchardt, Octavio Palma, Olivier Galland, Karen Mair, Dougal Jerram	Syn-emplacement ductile/brittle deformation within the Cerro Bayo laccolith, Chachahuén volcano, Argentina
ME13B-081	4:30 PM - 6:30 PM	Hugh Tuffen, Ellen McGowan, Mike James	Rhyolitic dyke evolution from pyroclastic pathways to dense magmatic plugs
ME13B-082	4:30 PM - 6:30 PM	Tobias Schmiedel, Olivier Galland, Christoph Breitzkreuz	The control of host rock strength on sill and laccolith emplacement: insights from quantitative laboratory models
ME13B-083	4:30 PM - 6:30 PM	Volkhard Spiess, Lena Steinmann, Marco Sacchi, Giuseppe De Natale, - MagellanPlus Workshop participants	Understanding the dynamics of an active caldera at the land-sea interface: Strategies for an amphibious IODP/ICDP drilling initiative at the Campi Flegrei caldera

ME13C: II.10 A tribute to the life and work of Jon Davidson (1959-2016) III Posters**Monday August 14, 2017. 4:30 PM - 6:30 PM Exhibit Hall A**

Abstract Number	Time	Authors	Title
ME13C-085	4:30 PM - 6:30 PM	Kate Saunders, Ester Jolis, Duncan Muir, Valentin Troll, Frances Deegan, David Hilton, Chris Harris	Petrogenesis of Sumatran Andesite volcanoes
ME13C-086	4:30 PM - 6:30 PM	Wendy Bohrsen, Frank Spera	Rejuvenation of Crustal Magma Mush: Constraints on Multiply Nested Processes and Timescales
ME13C-087	4:30 PM - 6:30 PM	Madalena Blum-Oeste, Gerhard Wörner	Tracing magma components in mineral compositions from lavas of the Central Andes
ME13C-088	4:30 PM - 6:30 PM	Richard Price, Shane Cronin, Ian Smith, Anke Zernack	Insights into amphibole-fractionation during early subduction-related volcanism of the Taranaki volcanic lineament, North Island, New Zealand
ME13C-089	4:30 PM - 6:30 PM	Shelby Isom, Erik Shafer, Martin Streck, Ilya Bindeman	The voluminous, low $\delta^{18}\text{O}$, and strongly trace element zoned high-silica rhyolite reservoir of the Devine Canyon Tuff, eastern Oregon: Reality check for the mush model
ME13C-090	4:30 PM - 6:30 PM	Mark Reagan, Heather Handley, Ralf Gertisser, Michael Turner, Kim Berlo, Katie Preece	U-series evidence for ongoing skarnification beneath Merapi Volcano, Indonesia
ME13C-091	4:30 PM - 6:30 PM	Marco Viccaro, Marisa Giuffrida, Luisa Ottolini	Ultra-fast sin-eruptive degassing and ascent of Etna magmas from Li gradients in plagioclase
ME13C-092	4:30 PM - 6:30 PM	Meredith Cole, Emily Johnson, Frank Ramos, Andrew Calvert	Evaluating Subduction Component Contributions in the Cascades: Melt Inclusion Volatile Contents and Compositions, and Whole-rock Isotopic Compositions of Cinder Cones in California and Southern Oregon
ME13C-093	4:30 PM - 6:30 PM	John A. Wolff, Frank C. Ramos, Corey Dimond	Melt inclusion and single crystal isotopic record of a large rhyolitic magma system between two super-eruptions
ME13C-094	4:30 PM - 6:30 PM	Michael Garcia, Kendra Lynn, Aaron Pietruszka, Jared Marske, J. M. Rhodes	Using the Jon Davidson Approach for Deciphering Magmatic Processes during the Ongoing Eruption of Kilauea Volcano, Hawaii
ME13C-095	4:30 PM - 6:30 PM	Eva Hartung, Luca Caricchi, David Floess, Davide Roggero, Simon Wallis, Satoru Harayama	Linking plutonic and volcanic realms using plagioclase chemistry: Insights from the Takidani Pluton and the Nyukawa-Chayano-Ebisutoge volcanics (Central Japan)
ME13C-096	4:30 PM - 6:30 PM	Joseph R. Boro, Owen K. Neill, John A. Wolff, Frank C. Ramos, Corey A. Dimond	Diffusion modeling of Ti-in-quartz from the Bandelier Tuff and Cerro Toledo Formation, Valles caldera, Jemez Mountains, New Mexico, USA
ME13C-097	4:30 PM - 6:30 PM	Frank Tepley	The development of isotopic microsampling at the Los Angeles Volcano Observatory (LAVO)
ME13C-098	4:30 PM - 6:30 PM	Marit van Zalinge, Steve Sparks, Darren Mark, Frances Cooper	Petrogenesis and temporal evolution of the 21.9 Ma large-volume Cardones ignimbrite, Central Andes; implications for a complex magma-mush system

ME13C-099	4:30 PM - 6:30 PM	David Neave, Olivier Namur, François Holtz	The effect of mantle-derived variability on the mineralogy of primitive basalts: Experimental constraints from Icelandic systems
ME13C-100	4:30 PM - 6:30 PM	Olgeir Sigmarsson, Gaelle Mollex	Short magma mixing timescales before and during the Eyjafjallajökull 2010 eruption
ME13C-101	4:30 PM - 6:30 PM	Mary Reid, Fidel Costa	Insights Into Intracontinental Basaltic Magma Sources, Transport, and Storage

PE13A: III.5 Processes leading to monogenetic volcanism III Posters**Monday August 14, 2017. 4:30 PM - 6:30 PM Exhibit Hall A**

Abstract Number	Time	Authors	Title
PE13A-102	4:30 PM - 6:30 PM	Fanghui Deng, Charles Connor, Rocco Malservisi, Laura Connor, Jeremy White, Aurélie Germa	A numerical model for the origin of vent clusters in a Colorado Plateau volcanic field
PE13A-103	4:30 PM - 6:30 PM	Benjamin Latutrie, Pierre-Simon Ross, James DL White	Bedded to non-bedded transition at Round Butte diatreme, Hopi Buttes volcanic field, Arizona
PE13A-104	4:30 PM - 6:30 PM	Francisco J Nuñez-Cornu, Juan I Pinzon-Lopez, Charlotte Rowe	Magma intrusion between Paricutin Volcano and Tancitaro Volcano: Evidence from seismic analysis
PE13A-105	4:30 PM - 6:30 PM	Marie-Noelle Guilbaud	Magmatic controls on monogenetic activity in a continental arc: Insights from a geochemical study at the trenchward margin of the Michoacán-Guanajuato Volcanic Field (México)
PE13A-106	4:30 PM - 6:30 PM	Luis E. Lara, Lucy M. McGee	Small eruptive centres are decoupled from arc volcanoes in the Southern Andes
PE13A-107	4:30 PM - 6:30 PM	Heather Handley, Lucy McGee, Rosa Didonna, Karoly Németh, Rebecca Griffis, Michael Turner	Multiple vent eruptions at monogenetic volcanoes: Waitomokia volcano, Auckland Volcanic Field, New Zealand
PE13A-108	4:30 PM - 6:30 PM	Jenni L Hopkins, Graham Leonard, Colin J N Wilson, Marc-Alban Millet, Christian Timm, Lucy E McGee	Reconstructing the evolution of the monogenetic Auckland Volcanic Field, New Zealand, using a multi-criteria approach to correlate tephra deposits to their source centres
PE13A-109	4:30 PM - 6:30 PM	Darin Schwartz, Dorsey Wanless, Adam Soule, Meghan Jones, Daniel Fornari	Petrogenesis of Interisland Seamounts in the Galápagos Archipelago
PE13A-110	4:30 PM - 6:30 PM	Wes Hildreth, Judy Fierstein	Simcoe Mountains Intraplate Volcanic Field East of the Cascades
PE13A-111	4:30 PM - 6:30 PM	Pooja Kshirsagar, Karoly Nemeth, Raúl Miranda-Avilés	Structural control of an eroded mafic alkali monogenetic volcanic field associated with flood basalt volcanism: Central Kachchh (NW Deccan Traps of India)
PE13A-112	4:30 PM - 6:30 PM	Nathalie Lefebvre, Juanita Rausch, David Jaramillo, Michael Ort, Hannes Mattsson	Textural and morphological studies of juvenile pyroclasts from the Ukinrek maars, Alaska: Insights into variation in eruption style of mafic monogenetic volcanoes
PE13A-113	4:30 PM - 6:30 PM	Karen Bemis	Why craters exist: an exploration of scoria cone construction
PE13A-114	4:30 PM - 6:30 PM	Benjamin van Wyk de Vries, Catherine Lit	Eruption dynamics and landform development – an 8,000 year old record of landscape reaction to a trachytic monogenetic eruption

PE13B: III.6 Linking monitoring data with volcanic processes III Posters**Monday August 14, 2017. 4:30 PM - 6:30 PM Exhibit Hall A**

Abstract Number	Time	Authors	Title
PE13B-115	4:30 PM - 6:30 PM	Karen Pascal	22 years of volcano-deformation monitoring at Soufrière Hills Volcano, Montserrat
PE13B-116	4:30 PM - 6:30 PM	Ailsa Naismith, Matthew Watson, Gustavo Chigna, Helen Thomas, Kerstin Stebel, Robyn Brailey	Using Multiple Datasets to Characterise the Recent Eruptive Activity of Volcán de Fuego, Guatemala
PE13B-117	4:30 PM - 6:30 PM	Akiko Tanaka, Paul Lundgren	Source model for Kuchinoerabujima volcano, Japan, constrained by interferometric synthetic aperture radar observations
PE13B-118	4:30 PM - 6:30 PM	Salvatore Giammanco, Pietro Bonfanti, Alessandro Bonforte, Francesco Guglielmino	The “Salinelle” mud volcanoes at Mt. Etna (Sicily, Italy) periphery: possible correlation between local ground deformation and gas flux
PE13B-119 (invited)	4:30 PM - 6:30 PM	Ugan Saing	The first permanent Multi-GAS stations in Indonesia: monitoring hydrothermal gas emissions from Timbang and Sileri craters (Dieng Volcanic Complex, Central Java), May 2013 – March 2017
PE13B-120	4:30 PM - 6:30 PM	Yang Liao, David Bercovici, Mark Jellinek	Magma wagging & whirling in volcanic conduits, and their seismic signatures
PE13B-121	4:30 PM - 6:30 PM	Evelyn Roeloffs, Joshua P. Jones	The March 30, 2014 Mw4.8 earthquake near Norris Geyser Basin, Yellowstone National Park: Co- and post-seismic deformation from Plate Boundary Observatory borehole strainmeters
PE13B-122	4:30 PM - 6:30 PM	Xueming Xue, Jeffrey Freymueller	An unscented Kalman filter combining GPS and InSAR for time-dependent modeling of volcanic deformation
PE13B-123	4:30 PM - 6:30 PM	David Arnold, Juliet Biggs, Silvia Vallejo Vargas, Kyle Anderson, Geoff Wadge, Susanna Ebmeier, Patricia Mothes	Lava extrusion rate and magma supply rate at El Reventador Volcano, Ecuador
PE13B-124	4:30 PM - 6:30 PM	Robin Matoza, Arthur Jolly, David Fitzgerald, Richard Johnson, Bernard Chouet, Phillip Dawson, Geoff Kilgour, Bruce Christenson, Eslie Garaebiti, Alex Iezzi, Allison Austin, Ben Kennedy, Rebecca Fitzgerald, Nick Key	Seismo-acoustic wavefield of strombolian explosions at Yasur volcano, Vanuatu using a broadband seismo-acoustic network, infrasound arrays, and infrasonic sensors on tethered balloons
PE13B-125	4:30 PM - 6:30 PM	María Asensio-Ramos, Cecilia Amonte, Marta García, Gladys Melián, Fátima Rodríguez, Mar Alonso, Rubén García-Hernández, Ernesto García, Verónica Vela, Pedro A. Hernández, Nemesio Pérez	Surface geochemical network to monitor diffuse degassing for the volcanic surveillance of the oceanic active volcano island of Tenerife, Canary Islands

PE13B-126	4:30 PM - 6:30 PM	Jean Soubestre, Nikolai Shapiro, Léonard Seydoux, Julien de Rosny, Dmitry Droznin, Svetlana Droznina, Sergey Senyukov, Evgeny Gordeev	Detecting seismo-volcanic signals and classifying volcanic tremor sources at the Klyuchevskoy volcanic group (Kamchatka) from the seismic network covariance matrix analysis
PE13B-127	4:30 PM - 6:30 PM	Thy P. Do, Maurizio Battaglia	dMODELS: A software package for modeling volcanic deformation
PE13B-128	4:30 PM - 6:30 PM	Alexander Steele, Christopher Kilburn, Agust Gudmundsson	Unrest and Eruption at Large Calderas: Campi Flegrei, Southern Italy
PE13B-129	4:30 PM - 6:30 PM	Taishi Yamada, Hiroshi Aoyama	A numerical study on the onset of explosion earthquakes
PE13B-130	4:30 PM - 6:30 PM	Estelle Bonny, Þorvaldur Þórðarson, Robert Wright, Ármann Höskuldsson, Ingibjörg Jónsdóttir	What can the synergy of satellite- and ground-based measurements tell us about eruption processes: case study of the 2014-15 eruption at Holuhraun, Iceland
PE13B-131	4:30 PM - 6:30 PM	Kim Berlo, Vincent van Hinsberg, Pak Suparjan, Bambang Heri Purwanto, Hendra Gunawan, Sri Budhi Utami, Bassam Ghaleb	Gypsum at Kawah Ijen: a record of degassing in a crater lake
PE13B-132	4:30 PM - 6:30 PM	Ingrid Johanson, Asta Miklius, Michael Poland	Unraveling the contributions of multiple sources during a 2015 intrusive sequence at Kīlauea Volcano
PE13B-133	4:30 PM - 6:30 PM	Adriano Nobile, Nicolas d'Oreye, Benoît Smets, Halldor Geirsson, Francois Kervyn de Meerendré	Deep and Shallow Magma Plumbing system interactions at Nyamulagira volcano, Central Africa, revealed by high temporal resolution InSAR time series and GPS
PE13B-134	4:30 PM - 6:30 PM	Taketo Shimano, Masato Iguchi, Setsuya Nakada, Yuki Suzuki, Fukashi Maeno, Mitsuhiro Yoshimoto, Akhmad Zaennudin, Natsumi Hokanishi	Detection of transition in eruption style by spectrophotometric colorimetry of time-series ash samples during long-lasting eruptions
PE13B-135	4:30 PM - 6:30 PM	John Power, Diana Roman, John Lyons, Matt Haney	Seismic and Infrasonic Observations of Mount Cleveland, Alaska: An Open Vent Volcano in the Central Aleutian Arc – August 2015 to July 2016
PE13B-136	4:30 PM - 6:30 PM	Brian James Aggangan, Teresito Bacolcol	Revisiting the Ground Deformation of Mayon Volcano during the 2004 and 2009 Eruptions using GPS
PE13B-137	4:30 PM - 6:30 PM	James Hickey, Ryan Lloyd, Juliet Biggs, David Arnold, Patricia Mothes, Cyril Muler	What's causing asymmetric flank deformation at Tungurahua volcano, Ecuador?
PE13B-138	4:30 PM - 6:30 PM	Antonina Calahorrano-Di Patre, Glyn Williams-Jones, Maurizio Battaglia, Patricia Mothes, Silvana Hidalgo, Santiago Aguiza, Francisco Mejía, Helen Gaunt	Linking Gravity Change at Cotopaxi Volcano with the Volcanic Processes Responsible for the 2015-2016 Period of Unrest
PE13B-139	4:30 PM - 6:30 PM	Fabio Manta, Benoit Taisne	Open window into an Open system: a Bayesian approach for model validation
PE13B-140	4:30 PM - 6:30 PM	Francisco Delgado, Matthew Pritchard	Renewed post-eruptive uplift following the 2011-2012 rhyodacitic eruption of Cordón Caulle (Southern Andes, Chile): evidence for transient episodes of magma reservoir recharge
PE13B-141	4:30 PM - 6:30 PM	Bhuvan Varugu, Falk Amelung	InSAR revealed deformation at Mauna Loa and inflation-earthquake interaction
PE13B-142	4:30 PM - 6:30 PM	Anna Perttu, Benoit Taisne, Dorianne Tailpied	Regional Infrasound Detection Capability for Southeast Asian Volcanoes
PE13B-143	4:30 PM - 6:30 PM	Mel Rodgers, Patrick J. Smith, Tamsin A. Mather, David M. Pyle	The July 2008 Vulcanian Explosion of Soufrière Hills Volcano, Montserrat: Using seismicity to investigate pre-eruption processes during quiescent-explosive transitions
PE13B-144	4:30 PM - 6:30 PM	Wataru Kanda, Yasuo Matsunaga, Takao Koyama	Geomagnetic evidence for the episodic fluid intrusion associated with the 2014 unrest of Kusatsu-Shirane volcano, Japan
PE13B-145	4:30 PM - 6:30 PM	Akiko Matsumoto, Mitsuhiro Nakagawa, Masato Iguchi	Petrological monitoring of eruptive activity since AD 2006 at Sakurajima volcano, Southern Kyushu, Japan: Implication of the activation in AD 2015

PE13C: III.7 Combining geological data and numerical simulations for understanding the eruption dynamics and depositional processes II Posters
Monday August 14, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
PE13C-146	4:30 PM - 6:30 PM	Domenico Doronzo, Joan Marti, Silvina Guzman	A thermo-mechanical model of high-grade ignimbrites at the Coranzuli volcanic complex, Argentina
PE13C-147	4:30 PM - 6:30 PM	Julia Eychenne, Alison Rust, Katharine Cashman, Wolfram Wobrock	Distal enhanced sedimentation from volcanic plumes: insights from the secondary mass maxima in the 1992 Mount Spurr fallout deposits
PE13C-148	4:30 PM - 6:30 PM	Daniel Woodell, Martin Schöpfer, Bernhard Grasmann	Distinct Element Method (DEM) numerical models of restless calderas
PE13C-149	4:30 PM - 6:30 PM	Matthew Sweeney, Greg Valentine	Impact zone dynamics of polydisperse multiphase jets and their implications for the initial conditions of pyroclastic density currents and their subsequent deposits
PE13C-150	4:30 PM - 6:30 PM	Francisco Váscónez, Daniel Sierra, Daniel Andrade, Emilia Saltos, Patricio Ramón, Patricia Mothes	Morphology of Cotopaxi volcano's crater (Ecuador) before and after the 1877 major eruption and its potential influence in future eruptive scenarios
PE13C-151	4:30 PM - 6:30 PM	Matteo Cerminara, Stella V. Paronuzzi Ticco, Tomaso Esposti Ongaro	Reconstructing sub-Plinian eruption dynamics by combining field observations, remote sensing data and three-dimensional numerical simulations: the case of April 2015 Calbuco (Chile) eruption
PE13C-152	4:30 PM - 6:30 PM	Johanand Gilchrist	Sediment Waves in Analog Experiments Simulating Explosive Eruption Columns
PE13C-153	4:30 PM - 6:30 PM	Federica Pardini, Mike Burton, Fabio Arzilli, Giuseppe La spina	SO ₂ fluxes from explosive eruptions: a novel numerical approach based on satellite images applied to the Calbuco 2015 eruption
PE13C-154	4:30 PM - 6:30 PM	Matthieu Poret, Antonio Costa, Stefano Corradini, Luca Merucci, Daniele Andronico, Gianfranco Vulpiani, Simona Scollo, Antonio Cristaldi	Tephra dispersal and fallout reconstructed integrating field, ground-based Radar and satellite data: Application to the 23 November 2013 Etna paroxysm

VO13A: IV.5 The role of volatiles in volcanic systems of the Earth's lithosphere II Posters**Monday August 14, 2017. 4:30 PM - 6:30 PM Exhibit Hall A**

Abstract Number	Time	Authors	Title
VO13A-155	4:30 PM - 6:30 PM	Craig Lundstrom	A new view of magmatic water in silicic plutonic-volcanic systems
VO13A-156	4:30 PM - 6:30 PM	Morgan Haldeman, Thorvaldur Thordarson, Enikő Bali, Steven Carey	Degassing-induced crystallization as a proxy for pressure in subaerial and submarine basaltic glassy selvages
VO13A-157	4:30 PM - 6:30 PM	Richard Fiske, Benjamin Andrews, Alex R. L. Nichols	Exceptionally energetic pyroclastic-fall eruptions at Kilauea Volcano, Hawai'i, ca 900 CE. Evidence for jet-driven events
VO13A-158	4:30 PM - 6:30 PM	Brent Poe, Antonio Pasculli	Point defect equilibria in nominally anhydrous minerals: DFT nudged elastic band calculations
VO13A-159	4:30 PM - 6:30 PM	Philippe Robidoux, Maria Luce Frezzotti, Erik H. Hauri, Alessandro Aiuppa	Shrinkage bubbles: the C-O-H-S magmatic fluid system
VO13A-160	4:30 PM - 6:30 PM	Allan Lerner, Paul Wallace, Carl Thornber, Peter Kelly, Michelle Coombs, Charles Mandeville	Investigating the connection between sulfur degassing and the oxidation state of melt at Mount St. Helens, Washington, and Augustine Volcano, Alaska
VO13A-161	4:30 PM - 6:30 PM	Alejandra Gomez-Ulla, Marie Edmonds, Olgeir Sigmarsson, Maria Jose Huertas, Eumenio Ancochea	Volatile elements in Lanzarote melt inclusions and their mantle source heterogeneity caused by recycling of mafic lithologies

VH13A: V.6 Volcanic ash and gas: Generation, transport and impacts on infrastructure, aviation, and climate III Posters**Monday August 14, 2017. 4:30 PM - 6:30 PM Exhibit Hall A**

Abstract Number	Time	Authors	Title
VH13A-162	4:30 PM - 6:30 PM	Claire Cooper, Graeme Swindles, Ivan Savov, Anja Schmidt	Volcano-Climate Interactions in the Holocene: The Effect of Deglaciation on Volcanic Eruption Frequency
VH13A-163	4:30 PM - 6:30 PM	Kuniaki Nishiki, Naomi Nagata, Hiromichi Kanai, Ryuta Furukawa	Estimation methods for the initial population of plinian fall deposits: A case study of the Ta-a and Ta-c2 tephra from Tarumai volcano, southwestern Hokkaido, Japan
VH13A-164	4:30 PM - 6:30 PM	Kazutaka Mannen	Development of vt; a new simulation code to describe pyroclastic fall deposit from bending eruption column under windy condition
VH13A-165	4:30 PM - 6:30 PM	Tony Hurst, Cory Davis, Natalia Deligne	Handling uncertainties in volcanic ash forecasts from HYSPLIT atmospheric modelling
VH13A-166	4:30 PM - 6:30 PM	Kensuke Ishii, Toshiki Shimbori, Yuta Hayashi, Eiichi Sato, Tesuo Tokumoto, Akihiro Hashimoto	A volcanic ash data assimilation system based on the three dimensional variational method
VH13A-167	4:30 PM - 6:30 PM	Pablo Forte, Jonathan M. Castro	H2O evolution in rhyolitic systems: the case of the 2008 Chaitén eruption, Chile
VH13A-168	4:30 PM - 6:30 PM	Hannah Buckland, Julia Eychenne, Katharine Cashman, Alison Rust	Relating the physical properties of volcanic rocks to the characteristics of ash generated by experimental abrasion
VH13A-169	4:30 PM - 6:30 PM	Arnau Folch, Alejandro Marti	Solutions on real time for air traffic management (SORT-ATM)
VH13A-170	4:30 PM - 6:30 PM	Geoffroy Avaré	Turrialba Volcano, Costa Rica: Transition to Magmatic Activity
VH13A-171	4:30 PM - 6:30 PM	Laura Walkup, Kari Prassack, William Hart, Elmira Wan	Geochemistry and tephrostratigraphy of Pliocene tephra in Hagerman Fossil Beds National Monument, Idaho, USA
VH13A-172	4:30 PM - 6:30 PM	Verity Flower, Ralph Kahn	Volcanic plume characterization using space-borne multi-angle imagery
VH13A-173	4:30 PM - 6:30 PM	Masayuki Oishi, Nobuo Geshi, Ryuta Furukawa, Takahiro Yamamoto, Yoshihiro Ishizuka, Teruki Oikawa, Futoshi Nanayama	Distribution patterns of volcanic ash fall deposits from Vulcanian eruptions
VH13A-174	4:30 PM - 6:30 PM	Celine Vidal, Yves Moussallam, Clive Oppenheimer, Gezagegn Yirgu, Asfawossen Asrat, Karen Fontijn, Frances Williams, Paul Mohr	Timing and characteristics of Middle Pleistocene caldera-forming eruptions in the Ethiopian Rift
VH13A-175	4:30 PM - 6:30 PM	Sarah Shallcross, Graham Mann, Anja Schmidt, Ryan Neely, Sandip Dhomse, Jim Haywood, Andrew Jones	The role of ash in the dispersion of the 1991 Mount Pinatubo plume: An observational and model intercomparison study
VH13A-176	4:30 PM - 6:30 PM	Steven L. Quane, Benjamin J. Andrews	Bread Crusted Bubbles: a View into Conduit Processes
VH13A-177	4:30 PM - 6:30 PM	Adrian Hornby, Yan Lavallée, Stephen Clesham, Gavyn Rollinson, Ulrich Kueppers, Jackie Kendrick, Alan Butcher, Corrado Cimorelli	Advanced Characterization of Volcanic Ash using QEMSCAN® particle mineralogical analysis (PMA)
VH13A-178	4:30 PM - 6:30 PM	Antonio Costa, Matthieu Poret, Daniele Andronico, Simona Scollo, Mathieu Gouhier, Antonio Cristaldi	Integrating tephra dispersal models with field, airspace, and airborne observations: the case of 23th February 2013 Etna paroxysm
VH13A-179	4:30 PM - 6:30 PM	Ben Esse, Mike Burton, Simona Scollo, Giuseppe Salerno	Mitigating volcanic ash risks through ground based ultraviolet spectroscopy
VH13A-180	4:30 PM - 6:30 PM	Elisabetta Del Bello, Jacopo Taddeucci, Jonathan Merrison, Stefano Alois, Jens Jacob Iversen	Modelling volcanic ash resuspension by environmental wind tunnel experiments: the effect of grain size and humidity
VH13A-181	4:30 PM - 6:30 PM	Christina Magill, Russell Blong	Determining the magnitude of the 17th century Long Island eruption, Papua New Guinea
VH13A-182	4:30 PM - 6:30 PM	Dorianne Tailpied, Benoit Taisne, Anna Perttu	Listening for volcanoes in SE ASIA: regional detection capability for infrasound using realistic atmospheric specifications

VH13A-183	4:30 PM - 6:30 PM	stefano corradini, luca merucci, dario stelitano, mathieu poret, antonio costa, mario montopoli, simona scollo	Improvement of volcanic cloud detection, retrievals and source characterization by means of remote sensing data integration
VH13A-184	4:30 PM - 6:30 PM	Hans F. Schwaiger, Kristi L. Wallace	Forecasting resuspension of volcanic ash from the 1912 Novarupta eruption
VH13A-185	4:30 PM - 6:30 PM	Nels Iverson, Nelia Dunbar, Andrei Kurbatov, William McIntosh	Antarctica's englacial tephra record: linking source volcanoes, ice cores and blue ice areas
VH13A-186	4:30 PM - 6:30 PM	Mark Jellinek, Thomas Aubry, Wim Degruyter, Costanza Bonadonna	Evaluation of future volcanic SO ₂ emissions into the stratosphere and consequences for future volcanic forcing experiments in Global Climate Models
VH13A-187	4:30 PM - 6:30 PM	Hans Brenna, Kirstin Krüger, Steffen Kutterolf	Halogen and sulfur rich explosive eruptions in the tropics: A potential threat to the future ozone layer? Halogen and sulfur rich explosive eruptions in the tropics

VH13B: V.7 Volcano geology and geological mapping as tools for unravelling volcanic history and long term hazards assessment III Posters
Monday August 14, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
VH13B-188	4:30 PM - 6:30 PM	Julie Donnelly-Nolan, Robert Jensen, Duane Champion, Mark Stelten	Impact of lidar on geologic mapping of Newberry Volcano, Oregon, USA
VH13B-189	4:30 PM - 6:30 PM	Duane Champion, Drew Downs, Patrick Muffler, Michael Clynne, Andrew Calvert	Geologic Mapping of the Burney - Pit River Area, California, Using a Multidisciplinary Approach
VH13B-190	4:30 PM - 6:30 PM	L.J. Patrick Muffler, Andrew T. Calvert, Duane E. Champion, Michael A. Clynne, Drew T. Downs, Robert L. Christiansen	The Cascades volcanic arc between the Lassen Volcanic Center and Mount Shasta, northern California
VH13B-191	4:30 PM - 6:30 PM	Matthew Cruz, Martin Streck	The elusive eruptive sources of the mid-Miocene Dinner Creek Tuff, eastern Oregon
VH13B-192	4:30 PM - 6:30 PM	Drew Downs, L.J. Patrick Muffler, Michael Clynne, Duane Champion, Andrew Calvert, Ingvar Fridleifsson	Emplacement of the largest Quaternary monogenetic silicic dome complex in the Cascades Arc: the Burney Mountain dacite in northern California
VH13B-193	4:30 PM - 6:30 PM	Michael Clynne, Duane Champion, Maren Wanke	Stratigraphy and Age of the Castle Creek Eruptive Period, Mount St. Helens, Washington
VH13B-194	4:30 PM - 6:30 PM	María Fernanda Flores, Julie Roberge, Arturo Ortiz-Ubilla, Dougal A. Jerram, Roberto Hernández-Zúñiga, Carlos A. Angeles-De la Torre	Understanding Popocatepetl's last plinian eruption: A Volcanological and petrological study of the Pink Pumice
VH13B-195	4:30 PM - 6:30 PM	Delphine Roselyne Nathalie Sourisseau, José Luis MACIAS, Denis R. AVELLAN, Juan Pablo BERNAL URUCHURTU, Giovanni SOSA CEBALLOS	Stratigraphy of the post-caldera explosive volcanism of the La Primavera Caldera, Jalisco Mexico
VH13B-196	4:30 PM - 6:30 PM	Heather Wright, Marco Rivera, Jessica Vela, Chris Harpel	Explosive eruptive history of Ubinas volcano, Peru, over the past 14 ka
VH13B-197	4:30 PM - 6:30 PM	Flavia Maria Salani, Silvina Eugenia Luro	Stratigraphy and Geochemistry of Cerro Escorioso Volcanic Field, Miocene, Patagonia, Argentina
VH13B-198	4:30 PM - 6:30 PM	Shimpei Uesawa, Mitsuhiro Nakagawa, Akane Umetsu	Eruptive history, structure and magmatic change at Yotei Volcano, southwest Hokkaido, Japan
VH13B-199	4:30 PM - 6:30 PM	Daisuke Miura, Mizuho Amma-Miyasaka, Shimpei Uesawa, Shingo Takeuchi	Kuttara caldera complex and its ignimbrites
VH13B-200	4:30 PM - 6:30 PM	Yuki Yasuda	Collapse mechanism of small calderas: a case study of the Ohachidaira caldera, Hokkaido, Japan
VH13B-201	4:30 PM - 6:30 PM	Andrea Todde, Rafeollio Cioni, Karoly Nemeth, Marco Pistolesi, Nobuo Geshi, Costanza Bonadonna, Sébastien Biass	Understanding complex evolution of intermediate to silicic linear-source Plinian eruptions: Sakurajima volcano (Japan) and Tarawera Volcanic Complex (New Zealand) as case studies
VH13B-202	4:30 PM - 6:30 PM	Leo Pure, Dougal Townsend, Graham Leonard, Colin Wilson, Andrew Calvert, John Gamble	Comprehensive mapping and geochronology of glacial and interglacial lava flows at a stratovolcano: a case example from Tongariro volcano, New Zealand
VH13B-203	4:30 PM - 6:30 PM	Stepan Krashenninnikov, Lilya Bazanova, Maxim Portnyagin, Maarten Blaauw	Record of the Holocene magmatism of Avachinsky and Koryaksky volcanoes: geochemical and tephrochronological approach
VH13B-204	4:30 PM - 6:30 PM	Elodie Lebas, Steffen Kutterolf, Anne Le Friant, Kai Fockenberg, Georges Boudon, Benoît Caron, Stephan Jorry, Patrick Bachèlery	Extending the eruptive history of La Réunion Island to the Mid Pleistocene: Constraints from deep-sea sediments
VH13B-205	4:30 PM - 6:30 PM	Mari Sumita, Hans-Ulrich Schmincke	600 000 years of continuous eruptive record of Nemrut and Süphan volcanoes, eastern Anatolia: onshore and offshore tephrochronology of Lake Van area (Paleovan ICDP Drilling project)
VH13B-206	4:30 PM - 6:30 PM	Alvaro Marquez, Raquel Herrera, Jose Luis Granja Bruña, Benjamin van Wyk de Vries, Pilar Llanes, Marta Rincón	Recent volcano-structural evolution of Teide volcano (Tenerife, Canary Islands): constraints from geological mapping and geochronological data of the summit zone

FT13A: VIII.1 New approaches using statistical methods in volcanology II Posters
Monday August 14, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
FT13A-207	4:30 PM - 6:30 PM	Ana Teresa Mendoza-Rosas, Ángel Gómez-Vázquez, Servando De la Cruz-Reyna	Statistical analysis of the lava dome emplacement sequences and dome dimensions at Popocatepetl volcano, central México
FT13A-208	4:30 PM - 6:30 PM	Angel Gomez-Vazquez, Servando De la Cruz-Reyna, Ana Teresa Mendoza-Rosas	The ongoing process of consecutive lava dome emplacements and destructions at Popocatepetl volcano, Central Mexico
FT13A-209	4:30 PM - 6:30 PM	Stefan M. Lachowycz, Diana C. Roman, Ioana A. Cosma, Mel Rodgers, David M. Pyle, Tamsin A. Mather, Nick Varley	Investigating temporal variations in volcanic activity by statistical analysis of observation time-series

FT13A-210	4:30 PM - 6:30 PM	Qingyuan Yang, Marcus Bursik, Bruce Pitman	A new method to estimate the dispersal axis and vent location of tephra fall deposits
FT13A-211	4:30 PM - 6:30 PM	Julie Herrick, Sarah Henton De Angelis, Marguerite Toscano	Provenance of Floating Pumice in the Caribbean: Big Data and Hierarchical Clustering
FT13A-212	4:30 PM - 6:30 PM	John Albright, Patricia Gregg, Jeff Freymueller, Zhong Lu	Hindcasting the 2008 eruption of Okmok, AK using multi-data stream statistical data assimilation

FT13B: VIII.3 Volcano databases: new developments and applications I Posters
Monday August 14, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
FT13B-213	4:30 PM - 6:30 PM	Katherine Mulliken, Cheryl Cameron, Scott Crass, Janet Schaefer, Kristi Wallace	An update on the Alaska Tephra Database
FT13B-214	4:30 PM - 6:30 PM	Benjamin Andrews, Edward Venzke	Incorporating stratigraphic, granulometric, and image data into Volcanoes of the World
FT13B-215	4:30 PM - 6:30 PM	Christopher Bronk Ramsey, Victoria Smith, Rebecca Kearney	The RESET tephra and INTIMATE chronological databases: Resources for tephrochronology and volcanology
FT13B-216	4:30 PM - 6:30 PM	Shingo Takeuchi, Kiyoshi Toshida, Daisuke Miura, Shimpei Uesawa, Hisatoshi Ito	The association of eruption magnitude with magmatic properties: Evidence from Magma database of volcanic eruptions in Japan during the last one hundred thousand years
FT13B-217	4:30 PM - 6:30 PM	David Ramsey, Lee Siebert	Spatial and Temporal Database Compilation of Holocene Volcanic Vents in the Western Conterminous United States
FT13B-218	4:30 PM - 6:30 PM	Marco Antonio Aliotta, Mauro Amore, Stefano Messina, Flavio Cannavò, Carmelo Cassisi, Rosa Anna Corsaro, Marcello D'Agostino, Emanuela De Beni, Mario Dolce, Cinzia Federico, Andrea Mastrolia, Salvatore Mangiagli, Giuseppe Messina, Placido Montalto, Antonino Fabio Pisciotta, Michele Prestifilippo, Massimo Rossi, Giovanni Scarpato, Orazio Torrisi	Time Series Database Management System (TSDSystem) of Istituto Nazionale di Geofisica e Vulcanologia (INGV, Italy): a powerful tool for the management of volcano monitoring
FT13B-219	4:30 PM - 6:30 PM	Boris Behncke, Emanuela De Beni, Daniele Andronico, Antonella Bertagnini, Marina Bisson, Mattia De' Michieli Vitturi, Paola Del Carlo, Alessio Di Roberto, Tomaso Esposti Ongaro, Augusto Neri, Massimo Pompilio	A geo-database of "pyroclastic avalanches" at Mount Etna, 1999-2017

FT13C: VIII.4 Visualization tools and image processing in volcanology I Posters
Monday August 14, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
FT13C-220	4:30 PM - 6:30 PM	Allison Austin, Robin Matoza, David Tessier, Art Jolly, Alex Iezzi, Richard Johnson, Geoff Kilgour, Bruce Christenson, Esline Garaebiti, Ben Kennedy, Rebecca Fitzgerald, Nick Key, Adrien Tessier	Flashing arcs at Yasur Volcano, Vanuatu and their relationship to strombolian eruption mechanics
FT13C-221	4:30 PM - 6:30 PM	Mike James, Stuart Robson, Mark Smith	How precise are your SfM topographic surveys? 3-D uncertainty-based surface change detection with structure-from-motion photogrammetry and precision maps
FT13C-222	4:30 PM - 6:30 PM	Pierre-Yves Tournigand, Jacopo Taddeucci, Damien Gaudin, Juan José Peña Fernández, Diego Perugini, Elisabetta Del Bello, Piergiorgio Scarlato, Joern Sesterhenn	Initial transient ash plume dynamics: new insights from combined high-speed imagery, computer vision techniques and fractal analysis
FT13C-223	4:30 PM - 6:30 PM	Gonçalo Prates, Manuel Berrocoso, Cristina Torrecillas, Alberto Fernández-Ros, Raúl Páez, Amós De Gil, Belén Rosado, Luis Miguel Peci	Deception volcano's 1967-1970 eruption from visible band imagery (Antarctic Peninsula)
FT13C-224	4:30 PM - 6:30 PM	Rocco Malservisi, Fanghui Deng, Elisabeth A. Gallant, Nicholas Voss, Surui Xie, Mel Rodgers, Timothy H. Dixon, Sylvain J Charbonnier, Cristian M López	High-resolution DEM generation from multiple remote sensing data sources - a case study from Nevado del Ruiz, Colombia
FT13C-225	4:30 PM - 6:30 PM	Brian Zimmer, Piotr Arlukowicz, Grant Montieth, Lauren Richardson	High-Precision Photogrammetry for Change Detection in Non-Georeferenced Data Sets
FT13C-226	4:30 PM - 6:30 PM	Damiano Sarocchi, Gamaliel Moreno-Chavez, Lorenzo Borselli, Luis Angel Rodriguez-Sedano, Brittany Brand, Nicholas Pollock, Roberto Sulpizio, Trevor Hawkins	Quantitative texture analysis through remote imaging and automated image analysis: A case study from Mount St Helens, WA (USA)
FT13C-227	4:30 PM - 6:30 PM	Ling Zeng, Lili Cheng, Jason Herrin, Fidel Costa	CE 1.0: A MATLAB-based software for computational phenocryst extraction and statistical petrology
FT13C-228	4:30 PM - 6:30 PM	Roberto Guardo, Luca De Siena	Integrating passive seismicity with GIS for a new perspective on volcano imaging and monitoring: the case study of Mt. Etna

Tuesday, August 15

Awards Ceremony

Tuesday August 15 2017. 8:30 AM - 10:30 AM OCC Oregon Ballroom 201-203

	Shan de Silva	Awards Ceremony
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MT21A: I.2 Relating magmatic-tectonic processes and volcano flank stability I

Tuesday August 15, 2017. 11:00 AM - 1:00 PM Room A107-109

Abstract Number	Time	Authors	Title
MT21A-1	11:00 AM - 11:15 AM	Michael Poland, Aline Peltier, Alessandro Bonforte, Giuseppe Puglisi	A framework for understanding persistent volcanic flank instability based on Kilauea, Piton de la Fournaise, and Etna
MT21A-2	11:15 AM - 11:30 AM	Katrina Jacobs, Nico Fournier, Charles Williams, Martha Savage, Colin Wilson	Signatures of Regional Tectonics in Local Volcano Responses in the Taupo Volcanic Zone, New Zealand
MT21A-3	11:30 AM - 11:45 AM	Yasuhisa Tajima, Toshiaki Hasenaka, Masayuki Torii	Effects of 2016 Kumamoto earthquakes on the Aso volcanic edifice
MT21A-4	11:45 AM - 12:00 PM	Federico Lucchi, Lorella Francalanci, Gianfilippo De Astis, Claudio Antonio Tranne, Eleonora Braschi, Martijn Klaver	Recurrent collapse-driven blast eruptions during the mafic Holocene activity of Stromboli volcano, Italy
MT21A-5	12:00 PM - 12:15 PM	Anthony Hildenbrand, Fernando Ornelas Marques, Aurore Sibrant, Ana Costa, Christian Hübscher, Benedikt Weiß	Tectonic control on volcano growth and large landslides near the Azores Triple Junction
MT21A-6	12:15 PM - 12:30 PM	Maria A. Benito-Saz, Michelle M. Parks, Freysteinn Sigmundsson, Andrew Hooper, Laura García-Cañada, María Charco, Carmen López	El Hierro Island: an example of volcano island growth by deep magmatic intrusions
MT21A-7	12:30 PM - 12:45 PM	Joshua Jones, D. Sarah Stamps, Christelle Wauthier, Elifuraha Saria, Kang Hyeun Ji	Investigating volcano-tectonic stress interactions in a youthful continental rift
	12:45 PM - 1:00 PM		TBA

ME21A: II.7 Architecture of magmatic plumbing systems IV

Tuesday August 15, 2017. 11:00 AM - 1:00 PM Ballroom 201-203

Abstract Number	Time	Authors	Title
ME21A-1 (invited)	11:00 AM - 11:15 AM	Valerie Cayol, Aurelien Augier, Sébastien Court, Jean-Luc Froger, Sarah Menassian	Improved Cluster of Volume Strain Method Applied to Volcano Deformation
ME21A-2	11:15 AM - 11:30 AM	Paul Segall, Sigrún Hreinsdóttir	Pressurization and Stressing of Magma Chambers with Viscoelastic Aureoles: Application to Grímsvötn volcano, Iceland
ME21A-3	11:30 AM - 11:45 AM	Abigail Barker, Eric Andin, Valentin Troll, Börje Dahren, Steffi Burchardt, Michael Krumbholz, E Albers	Explaining Hekla's short eruption onset from the mineral record
ME21A-4	11:45 AM - 12:00 PM	Balazs Kiss, Szabolcs Harangi, Christoph Hauzenberger, Theodoros Ntafos, Paul R. D. Mason	Petrological mapping of Volcanic Plumbing Systems using amphiboles in mixed intermediate magmas: a case study from the Ciomadul Volcano (E-Carpathians)
ME21A-5	12:00 PM - 12:15 PM	Szabolcs Harangi, Réka Lukács, Balázs Kiss, Axel K. Schmitt, Olivier Bachmann, Kata Mészáros, Ioan Seghedi, Christoph Hauzenberger, Paul R.D. Mason	Petrologic constraints for a warm magma storage prior to the latest eruption of the Ciomadul volcano, eastern-central Europe
ME21A-6	12:15 PM - 12:30 PM	Paul Lundgren, Sergey Samsonov, Pietro Milillo, Jacqueline Salzer, Julia Kubanek, Cristian Lopez, Milton Ordoñez	Deep source model and dome growth analysis for Nevado del Ruiz Volcano, Colombia
ME21A-7	12:30 PM - 12:45 PM	Zack Spica, Mathieu Pertont, Denis Legrand	Architecture of the Colima volcano magmatic plumbing system
ME21A-8	12:45 PM - 1:00 PM	Timothy Druitt, Maxime Mercier, Taya Flaherty, Etienne Deloule, Juan Andujar, Anita Cadoux, Fidel Costa, Bruno Scaillet	Plumbing system architecture and magma ascent timescales at Santorini caldera

ME21B: II.9 Continental large igneous provinces: understanding processes of magma formation, storage, evolution, and eruption I

Tuesday August 15, 2017. 11:00 AM - 1:00 PM Room B110-112

Abstract Number	Time	Authors	Title
ME21B-1	11:00 AM - 11:15 AM	Dylan Colon, Ilya Bindeman, Taras Gerya	Crustal rheological controls on melt distribution in continental hotspot volcanoes: modeling Yellowstone magma chambers

ME21B-2	11:15 AM - 11:30 AM	Juliana Troch, Ben Ellis, Chris Harris, Peter Ulmer, Olivier Bachmann, Anne-Sophie Bouvier, Lukas Baumgartner	The role of melting during the generation of low- $\delta^{18}\text{O}$ rhyolites in the Yellowstone province
ME21B-3	11:30 AM - 11:45 AM	Martin Streck, William McIntosh, Mark Ferns	Columbia River Rhyolites: age-distribution patterns and their implications for arrival, location, and dispersion of flood basalt magmas in the crust
ME21B-4	11:45 AM - 12:00 PM	Seth Burgess, Jonathan Hagstrum, Michael Sawlan, Jorge Vazquez, Matthew Coble, Terrence Blackburn	Constraining the rate and duration of Columbia River flood basalt magmatism using coupled SHRIMP-RG and CA-ID-TIMS U-Pb zircon geochronology
ME21B-5	12:00 PM - 12:15 PM	Michael Sawlan	Discrimination of magmatic and alteration signatures in Columbia River flood basalts provides new insights into their chemostratigraphy and petrogenesis
ME21B-6	12:15 PM - 12:30 PM	Nicole E. Moore, Anita L. Grunder, Wendy A. Bohrsen, Richard W. Carlson	Source and Magma Processes During the Onset of Columbia River Basalt Volcanism, the Steens Basalt, SE Oregon
ME21B-7 (invited)	12:30 PM - 1:00 PM	Eugene Humphreys, Jonathan Perry-Houts, Matthew Morriss, Nicholas Wogan	The Columbia River flood basalts: Initiated from below, driven from above

PE21A: III.6 Linking monitoring data with volcanic processes IV

Tuesday August 15, 2017. 11:00 AM - 1:00 PM Room B117-119

Abstract Number	Time	Authors	Title
PE21A-1	11:00 AM - 11:15 AM	David Fee, Keehoon Kim, Arthur Key, Robin Matoza, Alexandra Iezzi, Allison Austin, Richard Johnson, Geoff Kilgour, Bruce Christenson, Esline Garaebiti, Ben Kennedy, Rebecca Fitzgerald, Nick Key	High-resolution explosion localization and characterization at Yasur Volcano, Vanuatu using the Time Reversal Mirror algorithm
PE21A-2	11:15 AM - 11:30 AM	Alexandra Iezzi, David Fee, Robin Key, Arthur Jolly, Keehoon Kim, Bruce Christenson, Richard Johnson, Geoff Kilgour, Allison Austin, Esline Garaebiti, Ben Kennedy, Rebecca Fitzgerald, Nicholas Key	3-D acoustic waveform simulation and inversion at Yasur Volcano, Vanuatu
PE21A-3 (invited)	11:30 AM - 11:45 AM	Kyle Anderson, Takehiro Koyaguchi, Tomofumi Kozono	What can we learn by inverting monitoring data from explosive eruptions? Insights from a fast, physics-based eruption model
PE21A-4	11:45 AM - 12:00 PM	Joshua Jones, Wendy McCausland, Javier Pacheco, Randall White	Identifying coupled explosion events with a hybrid matched-polarization filter
PE21A-5	12:00 PM - 12:15 PM	Jacob Anderson, Jeffrey Johnson	Nonlinear infrasound models and explosive gas flux
PE21A-6	12:15 PM - 12:30 PM	Hélène Le Mével, Patricia Gregg, Kurt Feigl	Characterizing magma pulses feeding Long Valley caldera using thermo-poroelastic models of magma injection into a magmatic mush
PE21A-7	12:30 PM - 12:45 PM	Mike Cassidy, Jonathan Castro, Christoph Helo, Susanna Ebmeier, Sebastian Watt	Combining experimental petrology with InSAR deformation constraints on the magmatic system prior to eruptions at Kelud volcano, Indonesia
PE21A-8	12:45 PM - 1:00 PM	Cristian Santacoloma, Rosa Alpala, Oscar Cadena	FRACTAL DIMENSION CORRELATION (D2) AND GENERAL HURST EXPONENT (H) CALCULATIONS APPLIED TO NEVADO DEL HUILA VOLCANO SEISMIC ACTIVITY DURING 2007 – 2010

VO21A: IV.1 Remote sensing of volcanic gases from space-based, airborne and ground-based platforms I

Tuesday August 15, 2017. 11:00 AM - 1:00 PM Room A106

Abstract Number	Time	Authors	Title
VO21A-1 (invited)	11:00 AM - 11:15 AM	Helen Thomas, Ailsa Naismith, Robyn Brailey, Gustavo Chigna, Kerstin Stebel, Fred Prata, Matt Watson	Multi-spectral infrared cameras for long-term observations of degassing and volcanic activity: a case-study from Volcán de Fuego, Guatemala
VO21A-2	11:15 AM - 11:30 AM	Thomas Wilkes, Tom Pering, Andrew McGonigle, Jon Willmott	The application of low-cost imaging sensors to the remote sensing of volcanogenic sulphur dioxide
VO21A-3	11:30 AM - 11:45 AM	Agnes Mazot, Bruce Christenson, Brad Scott	Mini-DOAS data processing for SO ₂ emission measurements and monitoring volcanic degassing on White Island (Whakaari), New Zealand
VO21A-4	11:45 AM - 12:00 PM	Christoph Kern, Pablo Masias, Fredy Apaza, Kevin Reath, Ulrich Platt	High water vapor emissions detected at Sabancaya Volcano prior to its 2016 eruption by differential optical absorption spectroscopy
VO21A-5 (invited)	12:00 PM - 12:15 PM	Vincent Realmuto, Florian Schwandner, Tamar Elias, Keith Horton, Steven Businger, Lacey Holland	The HypsIRI Preparatory Airborne Science Campaign to Kilauea Volcano: Combining Multi-Sensor Remote Sensing with In-Situ Sampling and Dispersion Modeling to Study Sulfur Dioxide Emissions
VO21A-6	12:15 PM - 12:30 PM	Isabelle A Taylor, James Preston, Elisa Carboni, Tamsin A Mather, Roy G Grainger, Nicolas Theys, Silvana Hidalgo, Brendan McCormick Kilbride	Using the Infrared Atmospheric Sounding Interferometer to detect volcanic emissions of sulphur dioxide
VO21A-7	12:30 PM - 12:45 PM	Simon Carn, Vitali Fioletov, Chris McLinden, Can Li, Nickolay Krotkov	A decade of global volcanic SO ₂ emissions measured from space
VO21A-8	12:45 PM - 1:00 PM	Florian M. Schwandner, Michael R Gunson, Charles E Podolske, Simon A Carn, Annmarie Eldering, Thomas Krings, David S Schimel, Hai M Nguyen, David Crisp, Christopher W O'Dell, Gregory B Osterman, Laura T Iraci, James R Podolske, Kristal R. Verhulst	Space-Borne Detection of Volcanic Carbon Dioxide

VH21A: V.6 Volcanic ash and gas: Generation, transport and impacts on infrastructure, aviation, and climate IV Tuesday August 15, 2017. 11:00 AM - 1:00 PM Room B114-115			
Abstract Number	Time	Authors	Title
VH21A-1	11:00 AM - 11:15 AM	Benoit Taisne, Anna Perttu, Patrick Whelley, Wei Ming Chong	Ash in the air! From morphological study to weather variability, which region is the most likely to impact your next trip?
VH21A-2	11:15 AM - 11:30 AM	Andrew Prata, Helen Dacre, Keith Shine, Emma Irvine	Volcanic ash dosage calculator: A proof-of-concept tool to support aviation stakeholders during ash events
VH21A-3	11:30 AM - 11:45 AM	Jiandong Xu, Hongmei Yu	Probabilistic Assessment of Tephra Fallout Hazard for the Nuclear Power Plants (NPPS) of China – A Case of Taishan NPP
VH21A-4	11:45 AM - 12:00 PM	Alan Robock, Joanna Slawinska	Volcanic Eruptions as the Cause of the Little Ice Age
VH21A-5	12:00 PM - 12:15 PM	Brian Zambri, Alan Robock, Anja Schmidt, Michael Mills	Modeling Climate Impacts of the 1783-1784 Laki Eruption in Iceland
VH21A-6	12:15 PM - 12:30 PM	Lauren Marshall, Anja Schmidt, Matthew Tsigaridis, Ken Carslaw, Graham Mann, Michael Mills, Jean-Francois Lamarque, Fiona Tummon, Simone Tilmes, Sandip Dhomse, Davide Zanchettin, Myriam Khodri, Claudia Timmreck, Michael Sigl, William Ball, Slimane Bekki, Allegra LeGrande, Ulrike Niemeier, Virginie Poulain, Alan Robock, Eugene Rozanov, Andrea Stenke, Kostas Tsigaridis	Multi-model comparison of the volcanic sulfate deposition from the 1815 Mt. Tambora eruption
VH21A-7 (invited)	12:30 PM - 12:45 PM	Myriam Khodri, Takeshi Izumo, Jérôme Vialard, Serge Janicot, Christophe Cassou, Matthieu Lengaigne, Juliette Mignot, Guillaume Gastineau, Eric Guilyardi, Alan Robock, Michael J. McPhaden	El Niño–Southern Oscillation Response to tropical stratospheric volcanism
VH21A-8	12:45 PM - 1:00 PM	Anja Schmidt, Michael Mills, Steven Ghan, Jonathan Gregory, Richard Allan, Timothy Andrews, Andrew Conley, Piers Forster, Andrew Gettelman, Susan Solomon, Brian Toon	Current and near-future volcanic forcing of global climate change

ER21A: VI.3 Application of geological mapping and field surveys to different exploitation contexts (geothermal and ore deposits) I Tuesday August 15, 2017. 11:00 AM - 1:00 PM Room B116			
Abstract Number	Time	Authors	Title
ER21A-1	11:00 AM - 11:15 AM	Pete Stelling, Lisa Shevenell, Nick Hinz, Mark Coolbaugh	Volcanic characteristics and surface features as indicators of geothermal potential on active subduction zone volcanoes
ER21A-2	11:15 AM - 11:30 AM	Gianluca Groppelli, Gerardo Carrasco, Pablo Davila-Harris, Roberto de Franco, Gianluca Norini, Claudia Pellicoli, Claudia Principe, Roberto Sulpizio	New geological, structural and volcanological data of the Los Hornos Volcanic Complex: implications for reconstruction of the 3D model volcanic structure and geothermal exploration
ER21A-3	11:30 AM - 11:45 AM	Jaime Cavazos, Gerardo Carrasco	Vertical and lateral lithofacies variations of a caldera-related ignimbrite and their implications in an active geothermal system: The case of Los Hornos geothermal field, Mexico
ER21A-4	11:45 AM - 12:00 PM	Gerardo J. Aguirre-Díaz, Aída López-Hernández, Eduardo González-Partida	The graben-type caldera of Tulancingo-Acocolco complex, central-eastern México: New caldera boundaries and their implications for geothermal exploration
ER21A-5	12:00 PM - 12:15 PM	Denis Ramón Avellán López, José Luis Macías Vázquez, GIOVANNI SOSA CEBALLOS, PAUL LAYER, JOAN MARTI	GEOLOGY OF THE ACOCULCO CALDERA COMPLEX AT THE EASTERN SECTOR OF THE TRANS-MEXICAN VOLCANIC BELT, MÉXICO
ER21A-6	12:15 PM - 12:30 PM	Nicholas Hinz, Mark Coolbaugh, Pete Stelling, Lisa Shevenell	Structural–Tectonic Characteristics as indicators of geothermal potential on active subduction zone volcanoes
ER21A-7	12:30 PM - 12:45 PM	Thomas Garden, Darren Gravley, Isabelle Chambeftor, Chad Deering, Ben Kennedy	Calderas and their volcano-tectonic controls on hydrothermal fluid flow: A case study from Lake City caldera, Colorado, U.S.A.
ER21A-8	12:45 PM - 1:00 PM	Nino Popkhadze, Robert Moritz, Sergo Kekelia	LateCretaceous phreatomagmatic volcanism and distribution of ore deposits in the Bolnisi district: constraints from the Madneuli polymetallic deposit, Lesser Caucasus, Georgia

VS21A: VII.2 Volcanic geoheritage I Tuesday August 15, 2017. 11:00 AM - 1:00 PM Room B113			
Abstract Number	Time	Authors	Title
VS21A-1	11:00 AM - 11:15 AM	Karoly Nemeth, Jonathan Procter	Pedagogical and indigenous aspects of geoeducation with special reference to the volcanic geoheritage of monogenetic volcanoes

VS21A-2	11:15 AM - 11:30 AM	Benjamin van Wyk de Vries	Geological Environments and the place of volcanoes in global geoheritage
VS21A-3	11:30 AM - 11:45 AM	Marta Lucia Calvache V., Ivan Dario Nova V., Carlos Alonso Escobar P., Jorge Contreras, Gloria Patricia Cortes J.	The Omaira Sanchez Park in Armero-Guayabal town, Colombia, an opportunity for reconciliation with the territory
VS21A-4	11:45 AM - 12:00 PM	William I Rose, Erika Vye	Keweenaw Geoheritage: How to develop a Global Geopark in the US?
VS21A-5	12:00 PM - 12:15 PM	Cecile Olive-Garcia	The new Chaîne des Puys – Limagne fault résumé: explaining complex geological environments to UNESCO and the international community
VS21A-6	12:15 PM - 12:30 PM	Joan Marti, Ármann Höskuldsson	Why should Vatnajökull National Park, Iceland, become a UNESCO natural heritage site?
VS21A-7	12:30 PM - 12:45 PM	Benjamin van Wyk de Vries	Monogenetic volcanism and geoheritage: the case for a broad recognition at World Heritage
VS21A-8	12:45 PM - 1:00 PM	William I Rose	Keweenaw Geoheritage: How to develop a Global Geopark in the US?

FT21A: VIII.4 Visualization tools and image processing in volcanology II**Tuesday August 15, 2017. 11:00 AM - 1:00 PM Room A105**

Abstract Number	Time	Authors	Title
FT21A-1 (invited)	11:00 AM - 11:30 AM	Matthew Patrick, Tim Orr	Long-term operational imaging of eruptive activity at Kilauea Volcano
FT21A-2	11:30 AM - 11:45 AM	Alex J.C. Miller, Jeffrey Bruce Johnson, Jacob Anderson, Matthew R. Von Lintig	Constraining plume velocity and pulsed emissions from two months of continuous video data at Volcán Villarrica, Chile
FT21A-3	11:45 AM - 12:00 PM	Michael Barber, Nick Deardorff	Characterization of volcanic terrains using lidar return amplitudes and other data: a statistical approach
FT21A-4 (invited)	12:00 PM - 12:30 PM	Håvard Svanes Bertelsen, Frank Guldstrand, Olivier Galland, Luc Girod, Rikke F. Johannessen, Fanny Bjuggler, Steffi Burchardt, Karen Mair	Application of open-source photogrammetric software MicMac for geodetic monitoring in laboratory models
FT21A-5	12:30 PM - 12:45 PM	Roberto Guardo, Ariel Uzal, Andres Colubri, Carola Dreidemie	Integrating spatial earthquake distribution and 3D modelling analysis in a customizable GIS for a new perspective in volcano preliminary imaging: the case study of Mt. Etna
FT21A-6	12:45 PM - 1:00 PM	Nicolas Turner, Bruce Houghton, Ryan Perroy, Jacopo Taddeucci, Marina Bisson	Volcanic hazard monitoring with a small unmanned aerial system: structure-from-motion based studies of lava flows and explosive volcanism

Keynote Talk Tuesday August 15, 2017 1:30 - 2:15 OCC Oregon Ballroom 201-203

1:30-2:15	Jim O'Connor	Columbia River versus the Cascade Range volcanic arc—The Columbia River Gorge, Cataclysms, and Cultures
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MT22A: I.3 How good are volcanoes at sampling magmatic systems in space and time? I**Tuesday August 15, 2017. 2:30 PM - 4:30 PM Room A106**

Abstract Number	Time	Authors	Title
MT22A-1 (invited)	2:30 PM - 2:45 PM	Kathryn Watts, David John, Joseph Colgan, Christopher Henry	Probing the volcanic-plutonic connection in the deeply dissected Caetano caldera in the Nevada Great Basin, U.S.A.: Source of the late Eocene Caetano Tuff
MT22A-2	2:45 PM - 3:00 PM	Michal Camejo, Jon Blundy, Elena Melekhova, Richard Robertson, Thomas Christopher	Petrology of plutonic and volcanic rocks from Bequia, Lesser Antilles arc
MT22A-3	3:00 PM - 3:15 PM	Elisabeth Bertollett, Darren Gravley, Rachel Beane, Guil Gualda, David Prior, Elizabeth Teeter, Chad Deering	Compaction and fractionation revealed in a suite of plutonic lithics: a structural, textural and compositional study of the Akaroa Volcanic Complex, New Zealand
MT22A-4	3:15 PM - 3:30 PM	Brennan van Alderwerelt	Diverse minor volcanism across the central Andean arc
MT22A-5	3:30 PM - 3:45 PM	Guillaume Girard	Complex crystal populations in lava flows erupted in the early stages after caldera collapse at Yellowstone: implications for magma chamber composition and dynamics
MT22A-6	3:45 PM - 4:00 PM	Calvin Miller, Michelle Foley, Lily Claiborne, Guilherme Gualda, Ayla Pamukcu	PRE-ERUPTION MELT COMPOSITIONS REVEALED BY TEMPERATURE-SENSITIVE ZIRCON-MELT KIDS: DIAPHRAGM IN THE PEACH SPRING TUFF MAGMA CHAMBER, SW USA
MT22A-7	4:00 PM - 4:15 PM	Sara Di Salvo, Riccardo Avanzinelli, Roberto Isaia, Lorella Francalanci	Unravelling plumbing system dynamics generating explosive eruptions through in situ isotopic micro-analyses: insights into the Campanian Ignimbrite activity (Campi Flegrei, Italy)
MT22A-8 (invited)	4:15 PM - 4:30 PM	Wim Degruyter, Christian Huber, Olivier Bachmann, Kari Cooper, Adam Kent, Francesca Forni, Andrea Parmigiani	Insights into the eruptive history of volcanoes from a lumped-parameter magma reservoir model

ME22A: II.1 Viscous lava flows and domes: multi-disciplinary studies of emplacement mechanisms I**Tuesday August 15, 2017. 2:30 PM - 4:30 PM Room B116**

Abstract Number	Time	Authors	Title
ME22A-1	2:30 PM - 2:45 PM	Nick Varley, Sam Thiele	Gentle dome growth to catastrophic collapse: variations in effusive activity at Volcán de Colima
ME22A-2	2:45 PM - 3:00 PM	Philipp Ruprecht, Einat Lev, Alexander S. Lloyd	A tale of two flows -- A field study at Quizapu Volcano, Chile
ME22A-3	3:00 PM - 3:15 PM	Setsuya Nakada, Ahkmad Zaennudin, Mitsuhiro Yoshimoto, Fukashi Maeno, Yuki Suzuki, Natsumi Hokanishi, Hisashi Sasaki, Masato Iguchi	Growth process of the lava dome/flow complex during 2013--2016 at Sinabung Volcano, Indonesia
ME22A-4	3:15 PM - 3:30 PM	Fumihiko Ikegami, Rebecca Carey, Jocelyn McPhie	Topographical and structural controls on the Havre 2012 submarine rhyolitic lavas
ME22A-5	3:30 PM - 3:45 PM	Paul A. Wallace, Jackie E. Kendrick, Sarah H. De Angelis, James D. Ashworth, Rebecca Coats, Takahiro Miwa, Elisabetta Mariani, Yan Lavallée	Late-stage magmatic heating and deformation during the 1994 spine extrusion at Unzen volcano, Japan
ME22A-6	3:45 PM - 4:00 PM	Nathan Magnall, Mike R James, Hugh Tuffen, Charlotte Vye-Brown	The formation and classification of breakouts in the 2011-2012 rhyolitic lava flow at Cordón Caulle, Chile
ME22A-7 (invited)	4:00 PM - 4:15 PM	Jonathan Castro, Yves Feisel, Hugh Tuffen, C. Ian Schipper	Dynamics of obsidian flows inferred from surface folds on Cordón Caulle (Chile) rhyolites
ME22A-8	4:15 PM - 4:30 PM	Jonathan Fink, Steven Anderson	Unanswered questions about silicic lava flows fed from dikes

ME22B: II.7 Architecture of magmatic plumbing systems V**Tuesday August 15, 2017. 2:30 PM - 4:30 PM Ballroom 201-203**

Abstract Number	Time	Authors	Title
ME22B-1	2:30 PM - 2:45 PM	Helena Albert, Fidel Costa, Jason Herrin, Andrea Di Muro, Nicole Metrich	Timescales of the 2007 caldera-forming eruption of Piton de la Fournaise (La Réunion Island) recorded in olivine crystals and their melt inclusions
ME22B-2	2:45 PM - 3:00 PM	Jamie Farrell, Robert Smith	The Yellowstone crustal magmatic system: Our current understanding and what's next
ME22B-3	3:00 PM - 3:15 PM	Brett Walker, Michael Garcia, Tim Orr	PETROLOGIC INSIGHTS INTO RIFT-ZONE MAGMATIC INTERACTIONS UNDER KILAUEA'S NAPAUA CRATER (1963-2011)
ME22B-4	3:15 PM - 3:30 PM	Kathrin Laeger, Daniele Andronico, Maurizio Petrelli, Jacopo Taddeucci, Valeria Misiti, Piergiorgio Scarlato, Corrado Cimarelli, Elisabetta Del Bello	Constraining the magma dynamics during the Eyjafjallajökull 2010 eruption by high-resolution geochemical mapping
ME22B-5	3:30 PM - 3:45 PM	Line Probst, Luca Caricchi, Martin Gander, Laura Pioli, Enikő Bali, Glen Wallace, Tom Sheldrake	Genetic profiling of crystals from the Bardarbunga-Holuhraun eruption
ME22B-6	3:45 PM - 4:00 PM	Adam Kent, Kari Cooper	Can zircon crystallization really record the thermal history of magmas?
ME22B-7	4:00 PM - 4:15 PM	Holli Frey, Matthew Manon, Katherine Swager	Accessory minerals and magma chamber storage conditions: constraints from zircon chronology and apatite chemistry in tephra deposits from Dominica, Lesser Antilles
ME22B-8	4:15 PM - 4:30 PM	Vincent Salters, Justin Mandeville, Peter Larson, Thomas Sisson, Michael Clynne	What do the magmas of Indian Heaven and Mounts St. Helens, Cascades Arc, have in common?

ME22C: II.9 Continental large igneous provinces: understanding processes of magma formation, storage, evolution, and eruption processes II**Tuesday August 15, 2017. 2:30 PM - 4:30 PM Room B110-112**

Abstract Number	Time	Authors	Title
ME22C-1	2:30 PM - 2:45 PM	Tyrone Rooney	Flood Basalts and Pulsed Magmatism in East Africa
ME22C-2	2:45 PM - 3:00 PM	Marie-Claude Williamson, Gordon N. Oakey	Comparative geochemical and geophysical studies of volcanic rocks from the High Arctic Large Igneous Province (HALIP) and the Alpha Ridge, Arctic Ocean
ME22C-3	3:00 PM - 3:15 PM	Georg Zellmer, Jun-Ichi Kimura, Qing Chang, Gregory Shellnutt, May Sas, Phil Shane	Sr and Pb isotopic compositions of variably altered feldspars in the 1.14 Ga Great Abitibi Dyke: implications for isotopic studies and dating of giant radiating dyke swarms and ancient plutonic rocks
ME22C-4 (invited)	3:15 PM - 3:45 PM	Jussi S. Heinonen, Arto V. Luttinen, Teal R. Riley, Sanni Turunen	Sublithospheric mantle sources of the Karoo LIP
ME22C-5	3:45 PM - 4:00 PM	Courtney Sprain, Paul Renne, Isabel Fendley, Loyc Vanderkluysen, Kanchan Pande, Steve Self, Mark Richards	Timing, Tempo, and Transitions in the Deccan Volcanic Sequence
ME22C-6	4:00 PM - 4:15 PM	Loïc Vanderkluysen, Erika Rader, Hetu Sheth, Stephen Self, Amanda Clarke, Danielle Moyer	Variability of lava flow morphologies in the Deccan Traps large igneous province (India)
ME22C-7	4:15 PM - 4:30 PM	Anne Jay, Matthew Balme	A new 3D map of the Main Deccan Province constraining the current and original volumes of the geochemically defined formations

PE22A: III.6 Linking monitoring data with volcanic processes V**Tuesday August 15, 2017. 2:30 PM - 4:30 PM Room B117-119**

Abstract Number	Time	Authors	Title
PE22A-1	2:30 PM - 2:45 PM	Oliver Lamb, Paul Wallace, Silvio De Angelis, Yan Lavallée, Anthony Lamur, Adrian Hornby, Felix von Aulock, Jackie Kendrick, Gustavo Chigna, Armando Pineda, Alejandro Diaz Moreno, Andreas Rietbrock	Geophysical and geochemical observations of explosion dynamics at Santiaguito, Guatemala
PE22A-2	2:45 PM - 3:00 PM	Barbara Tripoli, Benoit Cordonnier, Daniele Giordano, Peter Ulmer	Hidden magma reservoirs under active volcanoes
PE22A-3	3:00 PM - 3:15 PM	Dannie Hidayat, Cahya Patria, I Gede Suantika, Warseno Warseno, Hendra Gunawan, Benoit Taisne, Dini Nurfiani, Chiou Ting Tan	Precursory long-period events and tilt signals to the explosion events at Marapi Volcano, West Sumatra, Indonesia
PE22A-4 (invited)	3:15 PM - 3:30 PM	Juliet Biggs, Yelebe Birhanu, Atalay Yirgu, Kathy Cashman, Marie Edmonds, Karen Fontijn, Joachim Gottsmann, Tim Greenfield, Juliane Huebert, William Hutchison, Fiona Iddon, Derek Keir, Michael Kendall, Elias Lewi, Ryan Lloyd, Tamsin Mather, Keri McNamara, David Pyle, Kathy Whaler, Fiona Whitaker, Matthew Wilks, Shimeles Wodemichel, Gezahegn Yirgu	Rift Volcanism: Integrating Geological And Geophysical Constraints On Restless Volcanic Systems
PE22A-5	3:30 PM - 3:45 PM	Rebecca O. Salvage, Javier F. Pacheco	Seismicity associated with the ongoing (2014 to present) eruption of Volcan Turrialba, Costa Rica
PE22A-6	3:45 PM - 4:00 PM	Társilo Girona, Corentin Caudron, Christian Huber	Source of volcanic tremor at openly-degassing volcanoes
PE22A-7	4:00 PM - 4:15 PM	Susanna Ebmeier	Testing the independence of volcanic signals: application of Independent Component Analysis to volcanic deformation
PE22A-8	4:15 PM - 4:30 PM	Manuel Berrococo Dominguez, Alberto Fernandez-Ros, Gonçalo Prates, Belen Rosado Moscoso, Amos De Gil Martinez, Luis Miguel Peci Sanchez, Raul Paez Jimenez	The 1990-2017 Deception volcano's geodynamic mechanism from GNSS data (Antarctic Peninsula)

VO22A: IV.3 The role of volatiles and degassing in magmatic and eruptive processes I

Tuesday August 15, 2017. 2:30 PM - 4:30 PM Room B114-115

Abstract Number	Time	Authors	Title
VO22A-1	2:30 PM - 2:45 PM	Kurt Roggensack, Gordon Moore	New and Improved H ₂ O-CO ₂ Solubility Models: Comparing Basalt and Basaltic Andesite Solubility Relationships
VO22A-2	2:45 PM - 3:00 PM	Chelsea Allison, Kurt Roggensack, Amanda Clarke	Thermodynamic modeling of H ₂ O-CO ₂ solubility experiments in alkali-rich mafic magmas at mid-crustal pressures
VO22A-3	3:00 PM - 3:15 PM	Maxim Gavrilenko, Michael Krawczynski, Philipp Ruprecht, Wenlu Li	Are melt inclusions a robust tool for understanding H ₂ O content of deep hydrous arc magmas?
VO22A-4	3:15 PM - 3:30 PM	Li Zhang, Huaiwei Ni	A general model of water diffusivity in calc-alkaline silicate melts and glasses
VO22A-5	3:30 PM - 3:45 PM	Madeleine Humphreys, Richard Brooker, Jenny Riker, Victoria Smith, Cees-Jan de Hoog, Michael Stock	Apatite as a tool to investigate the changing pre-eruptive volatile compositions of magmas
VO22A-6	3:45 PM - 4:00 PM	Weiran Li, Fidel Costa, Jason S Herrin, Kazuhide Nagashima	Contrasting eruption styles of Merapi volcano but similar magma pre-eruptive volatile compositions (CO ₂ , H ₂ O, S, Cl, F) and contents
VO22A-7	4:00 PM - 4:15 PM	Tushar Mittal, Mark Richards	Volatile degassing from magma chambers as a control on the size and frequency of volcanic eruptions
VO22A-8	4:15 PM - 4:30 PM	Ery Hughes, John Blundy, Roman Botcharnikov, Richard Brooker, Pierre Cartigny, EIMF -, Geoff Kilgour, Heidy Mader	Quantifying the initial volatile contents of basaltic magmas using stable isotope fractionation

VH22A: V.3 Modelling volcanic hazards I

Tuesday August 15, 2017. 2:30 PM - 4:30 PM Room A105

Abstract Number	Time	Authors	Title
VH22A-1 (invited)	2:30 PM - 2:45 PM	Mattia de' Michieli Vitturi, Tomaso Esposti Ongaro, Kae Tsunematsu	Phreatic explosions and ballistic ejecta: a new numerical model and its application to the 2014 Mt. Ontake eruption
VH22A-2 (invited)	2:45 PM - 3:00 PM	Costanza Bonadonna, Sebastien Biass, Jean Luc Falcone, Federico Di Traglia, Marco Pistolesi, Mauro Rosi, Pierino Lestuzzi, Sam Isgett, Bruce Houghton	Ballistic hazard assessment: so far, so good?
VH22A-3	3:00 PM - 3:15 PM	Laura Sandri, Karen Strehlow, Jo Gottsmann, Alison Rust, Geoff Kilgour, Roberto Tonini	On the occurrence of phreatic eruptions at Ruapehu: statistics and probabilistic hazard forecast for ballistics
VH22A-4	3:15 PM - 3:30 PM	Ting Wang, Jiancang Zhuang, Koji Kiyosugi	Replenishing eruption records for robust hazard estimation
VH22A-5	3:30 PM - 3:45 PM	James Cowlyn, Josef Dufek, Julian McAdams, Ben Kennedy	What happens when pyroclastic density currents travel over ice? Insights into transport processes and hazards at glaciated volcanoes
VH22A-6	3:45 PM - 4:00 PM	Tomaso Esposti Ongaro, Mattia de' Michieli Vitturi, Giacomo Lari, Alvaro Aravena Ponce, Augusto Neri	A new depth-averaged flow model for pyroclastic avalanches dynamics and hazard
VH22A-7	4:00 PM - 4:15 PM	Stuart Mead, Jonathan Procter	Comparing predictions of run-up and superelevation of the 2012 Upper Te Maari debris flow with analytical and numerical models
VH22A-8	4:15 PM - 4:30 PM	Richard Iverson, David George	Modeling the massive 2010 debris avalanche/lahar at Mount Meager, Canada: seamless simulation from initiation to deposition

ER22A: VI.1 Volcano-hydrothermal system dynamics: Hazards, resources, and extremophiles I**Tuesday August 15, 2017. 2:30 PM - 4:30 PM Room A107-109**

Abstract Number	Time	Authors	Title
ER22A-1 (invited)	2:30 PM - 2:45 PM	Giovanni Chiodini	Modelling the effects on the hydrothermal system of Campi Flegrei of magma degassing approaching the critical pressure
ER22A-2	2:45 PM - 3:00 PM	John Eichelberger, Paolo Papale, Yan Lavallee	KMT – Krafla Magma Testbed, an international infrastructure for game-change research
ER22A-3	3:00 PM - 3:15 PM	Tiziana Vanorio	Cementing Roman Concrete to a Caldera: A Physicochemical Process Impacting Rock Strength and Fracture Toughness
ER22A-4	3:15 PM - 3:30 PM	Ryo Tanaka, Takeshi Hashimoto, Nobuo Matsushima, Tsuneo Ishido	Numerical investigation of temporal changes in magnetic total field and ground deformation associated with volcanic hydrothermal systems
ER22A-5	3:30 PM - 3:45 PM	Andri Stefánsson, David R. Hilton, Árny E. Sveinbjörnsdóttir, Peter Torssander, Jan Heinemeier, Jaime D. Barnes, Shuhei Ono, Sæmundur A. Halldórsson, Jens Fiebig	SOURCES AND REACTIONS OF VOLATILES IN ICELANDIC THERMAL FLUID
ER22A-6 (invited)	3:45 PM - 4:00 PM	Asnawir Nasution	Recognized Active volcanic and Geothermal Gasses, Case Study of the Anak Ranakah Volcano and the Ulumbu Geothermal Area, West Flores, Indonesia
ER22A-7	4:00 PM - 4:15 PM	Christelle Wauthier, Benoît Smets, Andy Hooper, François Kervyn, Nicolas d'Oreye	Steady-rate and long-term ground deformation associated with dry gas vents in the Lake Kivu area
ER22A-8	4:15 PM - 4:30 PM	Franco Tassi, Mariano Agosto, Clara Lamberti, Alberto Caselli, Giovannella Pecoraino, Chiara Caponi, Juliana Szentiványi, Stefania Venturi, Jimena Presa	The 2012-2016 eruptive cycle at Copahue volcano (Argentina): hints from the temporal evolution of the chemical and isotopic features of hydrothermal-type gas discharges

FT22A: VIII.3 Volcano databases: new developments and applications II**Tuesday August 15, 2017. 2:30 PM - 4:30 PM Room B113**

Abstract Number	Time	Authors	Title
FT22A-1 (invited)	2:30 PM - 2:45 PM	Shinji Takarada, Joel Bandibas, G-EVER Promotion Team	Asia-Pacific region earthquake and volcanic hazards mapping project and G-EHTR volcanic hazard assessment support system
FT22A-2	2:45 PM - 3:00 PM	Bergrun Oladottir, Evgenia Ilyinskaya, Gudrun Larsen, Magnus Tumi Gudmundsson, Kristin Vogfjörð, Emmanuel Pagneux, Björn Oddsson, Sara Barsotti	Catalogue of Icelandic Volcanoes (CIV)
FT22A-3	3:00 PM - 3:15 PM	Edward Venzke, Benjamin Andrews	Expanded content and availability of the Volcanoes of the World database
FT22A-4	3:15 PM - 3:30 PM	Christina Widiwijayanti, Fidel Costa, Nang Thin Zar Win, Erickson Fajiculay, Christopher G. Newhall, Antonius Ratdomopurbo, WOVO Observatories	WOVOdat As A Localhost Solution For Archiving, Retrieving, And Visualizing Volcano Monitoring Data
FT22A-5	3:30 PM - 3:45 PM	Andrei Kurbatov, Nelia Dunbar, Nels Iverson, Mark Royer, Martin Martin	Antarctic tephra database AntT, lessons learned
FT22A-6	3:45 PM - 4:00 PM	Sue Mahony, Steve Sparks, Laura Wallace, Samantha Engwell, Ellie Scourse, Nick Barnard, Jessica Kandlbauer, Sarah Brown	Increased rates of large-magnitude explosive eruptions through the late Neogene and Quaternary in Japan, shown from ocean drilling core records
FT22A-7	4:00 PM - 4:15 PM	Falk Amelung, Alfredo Terrero, Bhuvan Varugu, Patricia Mothes, Yunjun Zhang, Dario Solano, Yosuke Aoki	InSAR monitoring of volcanoes in Ecuador, Japan, Hawaii and Mexico
FT22A-8 (invited)	4:15 PM - 4:30 PM	Cheryl Cameron, Katherine Mulliken, Scott Crass, Kristi Wallace, Janet Schaefer	Geologic Database of Information on Volcanoes in Alaska (GeoDIVA): integrating diverse datasets supports research and Observatory operations

MT23A: I.2 Relating magmatic-tectonic processes and volcano flank stability II Posters**Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A**

Abstract Number	Time	Authors	Title
MT23A-001	4:30 PM - 6:30 PM	Jonathan Procter, Georg Zellmer, Grace Marcroft, Takeshi Kuritani, Braden Walsh, Anke Zernack	Magmatic response to volcano collapse; an example from MtTaranaki, New Zealand
MT23A-002	4:30 PM - 6:30 PM	Stanley Mordensky, Marlene Villeneuve, Ben Kennedy, Darren Gravley, Michael Heap, Graham Leonard, Jamie Farquharson, Thierry Reuschle	Shallow Intrusions and Their Effects on Permeability, Strength, and Jointing in Volcanic Strata
MT23A-003	4:30 PM - 6:30 PM	Martha Gabriela Gómez-Vasconcelos, Pilar Villamor, Shane Cronin, Alan Palmer, Jon Procter, Bob Stewart	Spatio-temporal associations between dike intrusions and fault ruptures in the Tongariro Volcanic Centre, New Zealand: insights from the geological record and static stress analysis
MT23A-004	4:30 PM - 6:30 PM	Patrick Whalen, Frank Ettensohn	THE OLIGOCENE WEST ELK BRECCIA: EVIDENCE FOR MASSIVE VOLCANIC DEBRIS AVALANCHES IN THE EASTERN GUNNISON RIFT VALLEY, WEST-CENTRAL COLORADO, U.S.A.
MT23A-005	4:30 PM - 6:30 PM	Ivan Suñe Puchol, Gerardo de Jesus Aguirre Diaz, Pablo Davila Harris, Dario Pedrazzi, Eduardo Gutierrez, Walter Hernandez, Daniel Miggins, Antonio Costa	THE VOLUMINOUS 1.5 Ma OLOCUILTA IGNIMBRITE: A PRE-COLAPSE FISSURE SUPERERUPTION OF ILOPANGO CALDERA, EL SALVADOR

MT23A-006	4:30 PM - 6:30 PM	Armann Höskuldsson, Thor Thordarson	Debris avalanche and fluctuation in geothermal output a sign for unrest at Askja volcano Iceland
MT23A-007	4:30 PM - 6:30 PM	Marine Tridon	Inversion of Coeval Shear and Normal Stress of Piton de la Fournaise Flank Displacement
MT23A-008	4:30 PM - 6:30 PM	Emily Montgomery-Brown, Mario Mattia, Valentina Bruno, Danila Scandura	A comparison of slow slip events at Kilauea and Mt. Etna
MT23A-009	4:30 PM - 6:30 PM	Sarah Moore, Christelle Wauthier, Yo Fukushima, Michael Poland	Deformation sources in Kilauea's East Rift Zone During 1993-1997 revealed through InSAR modeling
MT23A-010	4:30 PM - 6:30 PM	Rui M.S. Fernandes, Stéphanie Dumont, José Madeira, João Mata, Machiel Bos, Fernando Carrilho, Graça Silveira, Ricardo S. Ramalho, Carla Candeias	A Multidisciplinary approach for studying an active volcano: the example of Fogo volcano (Cape Verde)
MT23A-011	4:30 PM - 6:30 PM	Katharine Solada, Shanaka de Silva, Adonara Mucek, Indyo Pratomo, Jade Bowers, Rendi Jamil, Sinung Baskoro	Rates of resurgent uplift of Samosir Island in Toba Caldera, Indonesia constrained by lake sediment chronology
MT23A-012	4:30 PM - 6:30 PM	Chad Dodge, Rachel Teasdale, Jennifer Wenner	Groundmass Crystallinities of Proximal and Distal Lavas of the Poison Lake Chain in the Lassen Region of the Southern Cascades
MT23A-013	4:30 PM - 6:30 PM	Sam Thiele, Alexander Cruden, Steven Micklethwaite, Jozua van Otterloo	House of Cards: The role of load-bearing dyke networks in volcanic edifice instabilities
MT23A-014	4:30 PM - 6:30 PM	Valerie Cayol, Marine Tridon, Jean-Luc Froger, Aurelien Augier	Inversion of Coeval Shear and Normal Stress of Piton de la Fournaise Flank Displacement

MT23B: I.3 How good are volcanoes at sampling magmatic systems in space and time? II Posters

Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
MT23B-015	4:30 PM - 6:30 PM	Réka Lukács, Szabolcs Harangi, Marcel Guillong, Olivier Bachmann, László Fodor, Yannick Buret, István Dunkl, Jakub Sliwinski	Early to Mid-Miocene syn-extensional massive silicic volcanism in the Pannonian basin (East-Central Europe): Zircon perspective age and isotopic constrains
MT23B-016	4:30 PM - 6:30 PM	W. Kirk Schelleffarth, Mary Reid, Michael Cosca	The Central Anatolia Volcanic Province: Spatio-temporal constraints on an evolving tectonic and magmatic province
MT23B-017	4:30 PM - 6:30 PM	Javier Reyes, Luis E. Lara, Diego Morata	Contrasting patterns of magmatic ascent and storage for shield and rejuvenated intraplate volcanism in Juan Fernández Ridge (Nazca plate), SE Pacific
MT23B-018	4:30 PM - 6:30 PM	Ren Thompson, Kenzie Turner, Michael Cosca, Ben Drenth, Leah Morgan, V.J.S. Grauch	Eruptive history of the Taos Plateau volcanic field and links to extensional tectonism of the northern Rio Grande rift, USA
MT23B-019	4:30 PM - 6:30 PM	Gregor Weber, Luca Caricchi, Thomas Sheldrake	The variability of magma compositions sampled by volcanoes: Linking statistical geochemistry and thermal modelling
MT23B-020	4:30 PM - 6:30 PM	Francesca Forni, Wim Degruyter, Olivier Bachmann, Gianfilippo De Astis, Silvio Mollo	Long-term magmatic evolution at the Campi Flegrei caldera (Southern Italy)
MT23B-021	4:30 PM - 6:30 PM	Gareth Fabbro, Chris O. McKee, Mikhail Sindang, Caroline Bouvet de Maisonneuve	Variation in the magmatic plumbing system of Rabaul (Papua New Guinea) across space and time
MT23B-022	4:30 PM - 6:30 PM	Erik Klemetti, Michael Clynne, Adam Kent, Frank Tepley	Magmatic storage conditions over the past 825,000 years at the Lassen Volcanic Center revealed in zircon model ages, compositions and melt inclusions
MT23B-023 (invited)	4:30 PM - 6:30 PM	Max Jensen, Luca Caricchi, Jon Blundy, George Cooper, Othmar Müntener	The temporal evolution of an arc volcano through zircon petro-chronology of intrusive and volcanic products
MT23B-024	4:30 PM - 6:30 PM	Jade Bowers, Shanaka de Silva, Adonara Mucek, Indyo Pratomo, Armen Putra	Understanding resurgence and restlessness at calderas: insights from climatic vs post-climatic eruptive compositions with particular reference to Toba, Sumatra
MT23B-025	4:30 PM - 6:30 PM	Ayla Pamukcu, Blair Schoene, Chad Deering	Compositional heterogeneity in the Lake City magmatic system (CO, USA) revealed by zircon U-Pb TIMS-TEA
MT23B-026	4:30 PM - 6:30 PM	Jordan Lubbers, Chad Deering, Olivier Bachmann, Marcel Guillong	Rhyolite and Trachyte Formation at Lake City Caldera: Evidence from Quantitative Textural and Geochemical Analyses
MT23B-027	4:30 PM - 6:30 PM	Heather Winslow, Philipp Ruprecht	Petrochemical constraints for primitive magmas in the Southern Andean Volcanic Zone from Volcán Manantial Pelado's eruptive history
MT23B-028	4:30 PM - 6:30 PM	Joseph Colgan, David John, Christopher Henry, Kathryn Watts	Implications of field relationships, geochronology, and zircon geochemistry for the emplacement of upper crustal plutons and their relationship to large silicic calderas, western Nevada, USA
MT23B-029	4:30 PM - 6:30 PM	Shannon Rentz, Gary Michelfelder, Emily Salings, Max Hoffman	Incremental development of the magma reservoir beneath the Mogollon Datil Volcanic Field, New Mexico: Insights from U-Pb geochronology and trace element geochemistry of zircon
MT23B-030	4:30 PM - 6:30 PM	Ashley Steiner, John Wolff	The chemical composition of pumice vs whole-rock ignimbrite samples: does it matter? A detailed portable XRF study of the Bandelier Tuff

MT23C: I.4 Arc evolution: space, time, morphology, and longevity of volcanic arcs I Posters

Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
MT23C-032	4:30 PM - 6:30 PM	Kirsten F. Hodge, A. Mark Jellinek	Mixing magmas: A mechanical recipe for Earth's continental crust
MT23C-033	4:30 PM - 6:30 PM	Rachel Hampton	The Middlesex Fells Volcanic Complex: A Revised Tectonic Model based on Geochronology, Geochemistry, and Field Data
MT23C-034	4:30 PM - 6:30 PM	Olga Bergal-Kuvikas, Caroline Bouvet de la Maisonneuve	Geodynamic setting of volcanoes in Southeast Asia: Comparing slab and crust parameters with magmatic productivities

MT23C-035	4:30 PM - 6:30 PM	Chungwan Lim, Insung Lee	Eruption histories and genesis of Baekdusan volcanoes
MT23C-036	4:30 PM - 6:30 PM	Hironao Shinjoe, Yuji Orihashi, Tomoaki Sumii	Boron and other trace element constraints on the slab-derived component of high-Mg andesite; implications for short-lived forearc magmatism in Miocene SW Japan
MT23C-037	4:30 PM - 6:30 PM	Seiko Yamasaki, Hideo Hoshizumi, Daniel P. Miggins, Anthony A.P. Koppers, Shanaka de Silva, Akikazu Matsumoto	Reconstruction of the Growth History of Kuju Volcanic Complex, Southwest Japan: Estimation of Magma Discharge Rates by Unspiked K-Ar and 40Ar/39Ar Dating
MT23C-038	4:30 PM - 6:30 PM	Aleksei Rogozin	Giant Pliocene-Pleistocene explosive eruptions within the Karymshinsky-Zhirovsky area (South Kamchatka): episodicity and stages of volcanism
MT23C-039	4:30 PM - 6:30 PM	Mathilde Bablon, Xavier Quidelleur, Pablo Samaniego, Jean-Luc Le Pennec, Pierre Lahitte, Céline Liorzou, Jorge Eduardo Bustillos, Silvana Hidalgo	Eruptive chronology of Tungurahua volcano (Ecuador) revisited from new K-Ar ages and geomorphological reconstructions
MT23C-040	4:30 PM - 6:30 PM	Russell Everts, Richard Conrey, William Leeman, Martin Streck	Insights Into Magmatic Diversity in the Columbia Cascades Transect (CCT)
MT23C-041	4:30 PM - 6:30 PM	Jiaming Yang, Maxwell Rudolph, Leif Karlstrom	Melting in the Mantle Wedge: Quantifying the effects of crustal thickening and viscous decoupling on melt production with application to the Cascadia subduction zone
MT23C-042	4:30 PM - 6:30 PM	Kellie Wall, Anita Grunder	New age and compositional constraints on the evolution of Goat Rocks Volcano, WA
MT23C-043	4:30 PM - 6:30 PM	Joseph Biasi, Claire Bucholz, Paul Asimow	Death of a Subduction Zone: Alkaline Volcanism on the Antarctic Peninsula
MT23B-027	4:30 PM - 6:30 PM	Heather Winslow, Philipp Ruprecht	Petrochemical constraints for primitive magmas in the Southern Andean Volcanic Zone from Volcán Manantial Pelado's eruptive history
MT23B-028	4:30 PM - 6:30 PM	Joseph Colgan, David John, Christopher Henry, Kathryn Watts	Implications of field relationships, geochronology, and zircon geochemistry for the emplacement of upper crustal plutons and their relationship to large silicic calderas, western Nevada, USA
MT23B-029	4:30 PM - 6:30 PM	Shannon Rentz, Gary Michelfelder, Emily Salings, Max Hoffman	Incremental development of the magma reservoir beneath the Mogollon Datil Volcanic Field, New Mexico: Insights from U-Pb geochronology and trace element geochemistry of zircon
MT23B-030	4:30 PM - 6:30 PM	Ashley Steiner, John Wolff	The chemical composition of pumice vs whole-rock ignimbrite samples: does it matter? A detailed portable XRF study of the Bandelier Tuff
MT23B-031	4:30 PM - 6:30 PM	Cansu Culha	Processes controlling crystal exchange between different magmas

ME23A: II.1 Viscous lava flows and domes: multi-disciplinary studies of emplacement mechanisms II Posters

Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
ME23A-044	4:30 PM - 6:30 PM	Claire Harnett, Mark Thomas, Matthew Purvance, William Murphy, Jurgen Neuberg	Why do lava domes fall down? New insights from numerical modelling
ME23A-045	4:30 PM - 6:30 PM	Ivan Utkin	Exploring the features of meshless methods in application to lava flow modeling
ME23A-046	4:30 PM - 6:30 PM	David Hyman, Marcus Bursik	Transient Lava Dome Pressurization and Degassing at Volcán Popocatepetl, Mexico: Numerical Analysis and Degassing Flux Calculations from Thermal Infrared Images
ME23A-047	4:30 PM - 6:30 PM	Camila Vera, Angelo Castruccio, Yarko Niño, Aldo Tamburrino, Olivier Roche	Analogue modeling of cooling viscous lava flows: using a new thermo-rheological material
ME23A-048	4:30 PM - 6:30 PM	Keiji Wada, Kyohei Sano	Emplacement mechanism of obsidian-rhyolite magma: observation of whole internal section of the Shirataki obsidian lava, northern Hokkaido, Japan
ME23A-049	4:30 PM - 6:30 PM	Eiichi Sato, Kyohei Sano, Masami Izuho, Andrei V. Grebennikov, Keiji Wada	Internal structure and magma ascent process of obsidian lavas in the south of Kamchatka Peninsula, Russia
ME23A-050	4:30 PM - 6:30 PM	Kyohei Sano, Eiichi Sato, Keiji Wada	Oxidation state and outgassing process of obsidian lava inferred from microRaman spectroscopy
ME23A-051	4:30 PM - 6:30 PM	Biao Cai, Rebecca Coats, Lavallée Yan, Jackie Kendrick, Felix Von-Aulock, Nolwenn Le Gall, Paul Wallace, Robert Atwood	4D Synchrotron Imaging of Viscous Flow of Crystal-bearing Magma Melts
ME23A-052	4:30 PM - 6:30 PM	James Thompson, Michael Ramsey	Identifying silicic lava surface textures and flow relationships using multispectral thermal infrared data
ME23A-053	4:30 PM - 6:30 PM	Christine Simurda, Michael Ramsey, Stephen Scheidt, David Crown	Surface Roughness and Block Size Distribution on Silicic Lava Flows
ME23A-054	4:30 PM - 6:30 PM	Amy Chadderton, Hugh Tuffen, Peter Sammonds, Philip Meredith, Rosanna Smith	The influence of temperature on permeability evolution in Volcán Chaitén rhyolite: An experimental approach
ME23A-055	4:30 PM - 6:30 PM	Lyndsay Moore, Réal Daigneault, Dominique Genna, Claude Pilote, Claude Bernier, John Stix	Facies architecture, hydrothermal alteration and precious metal mineralization at submarine felsic volcanic complexes: insights from the felsic centres of the Abitibi greenstone belt, Quebec, Canada
ME23A-056	4:30 PM - 6:30 PM	Emanuele Giacalone, James D.L. White, J. Michael Palin, Marco Brenna	An unusually coarse basaltic lava with extremely coarse segregation structures, Swinburn, Waipiata Volcanic Field, Otago, New Zealand
ME23A-057	4:30 PM - 6:30 PM	Oryaëlle Chevrel, Nanci Reyes Guzman, Claus Siebe, Marie-Noëlle Guilbaud	Emplacement characteristics of thick andesitic lava flows: Case of the western part of the Zacapu basin in the Michoacán-Guanajuato Volcanic Field, Mexico
ME23A-058	4:30 PM - 6:30 PM	Scott Rowland, John Sinton	KĀĀPAHU, A THICK BENMOREITE FLOW SEQUENCE ON EAST MOLOKA'I VOLCANO, HAWAII
MT23B-030	4:30 PM - 6:30 PM	Ashley Steiner, John Wolff	The chemical composition of pumice vs whole-rock ignimbrite samples: does it matter? A detailed portable XRF study of the Bandelier Tuff
MT23B-031	4:30 PM - 6:30 PM	Cansu Culha	Processes controlling crystal exchange between different magmas

ME23B: II.2 Basaltic eruption styles and transitions in intensity: from driving processes to impacts I Posters**Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A**

Abstract Number	Time	Authors	Title
ME23B-059	4:30 PM - 6:30 PM	Anna Barth, Megan Newcombe, Elizabeth Ferriss, Erik Hauri, Terry Plank	Control of magma ascent rate on the explosivity of basaltic eruptions
ME23B-060	4:30 PM - 6:30 PM	Simon Thivet, Lucia Gurioli, Andrea Di Muro, Guillaume Boudoire, Andrew Harris	Eruption of a stratified basaltic sill: insights from the June 2014 and July 2015 eruptions of Piton de La Fournaise
ME23B-061	4:30 PM - 6:30 PM	Aaron Marshall, Brittany Brand	When good volcanoes go bad - The causes and consequences of mafic explosive volcanism, Llaima volcano, Chile
ME23B-062	4:30 PM - 6:30 PM	Piergiorgio Scarlato, Elisabetta Del Bello, Laura Spina, Damien Gaudin, Jacopo Taddeucci, Tullio Ricci	Exploring the variability of Strombolian explosions at Batu Tara volcano (Indonesia) using infrasound and high speed imagery

ME23C: II.9 Continental large igneous provinces: understanding processes of magma formation, storage, evolution, and eruption processes III Posters**Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A**

Abstract Number	Time	Authors	Title
ME23C-063	4:30 PM - 6:30 PM	Jussi S. Heinonen, Tobias Fusswinkel	High Ni and low Mn/Fe in olivine phenocrysts from peridotite-derived magmas from the Karoo LIP
ME23C-064	4:30 PM - 6:30 PM	Ingrid Ukstins, Shanguan Shimai, Wei Tian	Volcanic stratigraphy and near-vent deposits of the Tarim flood basalts, NW China
ME23C-065	4:30 PM - 6:30 PM	Nicholas Barber, Anne Jay, Loïc Vanderkluyzen	Using Geographic Information Systems to Refine Estimates of Deccan Lava Flow Volumes (India)
ME23C-066	4:30 PM - 6:30 PM	Stephen Self, Anne Jay, Loïc Vanderkluyzen	Physical characteristics of Deccan basalt lavas in the Central Western Ghats, India
ME23C-067	4:30 PM - 6:30 PM	Tamsin Mather, Lawrence Percival, Micha Ruhl, Stephen Hesselbo, Hugh Jenkyns, Jessica Whiteside	Pulsed volcanism during the end-Triassic mass extinction: new evidence from mercury archives
ME23C-068	4:30 PM - 6:30 PM	Karin Orth, Christopher Phillips, Julie Hollis, Michael Wingate	The remnant Paleoproterozoic Hart-Carson LIP of north Western Australia
ME23C-069	4:30 PM - 6:30 PM	Jennifer Thines, Ingrid Ukstins Peate, David Peate	Using mineral chemistry from Afro-Arabian flood volcanics to quantify formation mechanisms of large volume silicic pyroclastic eruptions
ME23C-070	4:30 PM - 6:30 PM	Sylvana Bendaña, Wendy Bohrsen, Megan Graubard, Nicole Moore, Anita Grunder	Quantification of Mantle vs. Crustal Contributions to the Steens Flood Basalt Magmatic System
ME23C-071	4:30 PM - 6:30 PM	Mikkel Louis, Conner Toth, Wendy Bohrsen, Nicole Moore, Sylvana Bendaña, Megan Graubard, Anita Grunder	Phase Equilibria Constraints on the Magma Storage System with the Steens Basalt
ME23C-072	4:30 PM - 6:30 PM	Conner Toth, Mikkel Louis, Wendy Bohrsen, Sylvana Bendaña, Nicole Moore, Anita Grunder	Open-System Origin of Giant Plagioclase in the Steens Basalt, SE Oregon, USA: Assimilation of Plagioclase Mush or Entrainment of Plagioclase Antecrysts?
ME23C-073	4:30 PM - 6:30 PM	Matthew Morriss, Leif Karlstrom, Morgan Nasholds, Kendra Murray	Constraints on the structural and thermal conditions of Columbia River Basalt feeder dikes from a comprehensive regional dataset
ME23C-074	4:30 PM - 6:30 PM	Bart Martin	Small Volume Wanapum Basalt (Columbia River Basalt Group) Flows in SE Washington and NE Oregon: Integrating Fieldwork with Geochemistry to Constrain Flow Emplacement and Petrogenesis
ME23C-075	4:30 PM - 6:30 PM	Brian Webb, Martin Streck, Mark Ferns, William McIntosh	Flow units of the Littlefield Rhyolite, eastern Oregon, constraining age and storage sites of Grande Ronde Basalt magmas
ME23C-076	4:30 PM - 6:30 PM	Emily Cahoon, Martin Streck	Reevaluating distribution area and composition of the Picture Gorge Basalt CRBG, eastern Oregon
ME23C-077	4:30 PM - 6:30 PM	Adam Large, Martin Streck, William McIntosh	Rhyolite volcanism at the northern and western periphery of the Columbia River province rhyolite flare-up: The Buchanan and Dooley Mountain volcanic complex, eastern Oregon
ME23C-078	4:30 PM - 6:30 PM	Julia Neukampf, Ben Ellis, Tomas Magna, Olivier Bachmann	Lithium abundance and isotopic variations between phases in a rhyolite (the Mesa Falls Tuff, Yellowstone)
ME23C-079	4:30 PM - 6:30 PM	Christopher D. Henry, Stephen B. Castor, William A. Starkel, Ben S. Ellis, John A. Wolff, Joseph A. Laravie, William C. McIntosh, Matthew T. Heizler	The McDermitt caldera, northern Nevada and southeastern Oregon, USA: Diverse 16 Ma, silicic magmatism during initiation of the Yellowstone Hotspot
ME23C-080	4:30 PM - 6:30 PM	Pablo Davila-Harris, Graham D.M. Andrews, Sarah R. Brown, Nick Moreno, Linda Anderson, Brenda Pack	Stratigraphic architecture of a voluminous succession of rhyolitic ignimbrites from the central Sierra Madre Occidental (SMO) Silicic Large Igneous Province, Mexico
ME23C-081	4:30 PM - 6:30 PM	Daisuke Sekine, Takeshi Hasegawa	Eruption history and magma processes of pyroclastic deposits around Kamafusayama, southern Fukushima, Japan
ME23C-082	4:30 PM - 6:30 PM	Marine Foucher, Eric Engel, Katie Bristol, Aleksey Smirnov	Evolution of large lava flows in rift setting: Paleomagnetic and rock magnetic insights into the Greenstone flow

PE23A: III.2 Geophysical multi-parameters techniques for monitoring active volcanoes I Posters**Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A**

Abstract Number	Time	Authors	Title
PE23A-083	4:30 PM - 6:30 PM	Silvana Hidalgo, Jean Battaglia, Santiago Arellano, Daniel Sierra, René Parra, Pablo Samaniego, Peter Kelly, Benjamin Bernard	The Cotopaxi 2015 eruptive phase: insights from gas and glass
PE23A-084	4:30 PM - 6:30 PM	Koji Kato, Jun'ichi Miyamura, Yoshiro Masuda, Yoshihiro Ueda, Takahiro Yanada	Volcano monitoring and evaluating system in Japan Meteorological Agency (JMA)

PE23A-085	4:30 PM - 6:30 PM	Masaki Nakahashi, Satoshi Hareyama	Enhancement of volcanic monitoring and observation system of JMA near the crater
PE23A-086	4:30 PM - 6:30 PM	Minoru Takeo, Takao Ohminato, Mie Ichihara, Masanao Shinohara, Kiyoshi Baba, Atsushi Watanabe, Hiroko Sugioka, Yozo Hamano	Geophysical observations at a new volcanic island Nishinoshima, Ogasawara, Japan
PE23A-087	4:30 PM - 6:30 PM	Jorge Armando Alpala, Rosa Liliana Alpala, Maurizio Battaglia	Monitoring remote volcanoes: the 2010 - 2012 unrest at Sotar� volcano (Colombia)
PE23A-088	4:30 PM - 6:30 PM	Braden Walsh, Arthur Jolly, Jonathan Procter	Geophysical analysis of the 27 April 2016 Whakaari/White Island, New Zealand eruption: Insights into eruption dynamics and vent characteristics
PE23A-089	4:30 PM - 6:30 PM	Amberlee Darold, Benjamin Pauk, Weston Thelen, Rebecca Kramer	Geophysical Monitoring of Oregon and Washington Cascade Volcanoes
PE23A-090	4:30 PM - 6:30 PM	Salvatore Alparone, Alessandro Bonforte, Salvatore Gambino, Francesco Guglielmino, Francesco Obrizzo, Rosanna Velardita	Interaction between tectonic and volcanic dynamics at volcano island revealed by multiparametric monitoring data
PE23A-091	4:30 PM - 6:30 PM	Roberta Adamo, Milton Ivan Ord��ez, Cristian Mauricio Lopez, Maurizio Battaglia	2010 – 2016 geodetic monitoring of Nevado del Ruiz, Colombia
PE23A-092	4:30 PM - 6:30 PM	Micah Angeli Sayco, Maurizio Battaglia, Alain Bernard, Ma. Antonia Bornas, Edgardo Villacorte, Renato Solidum	Insights on Recent Ground Deformation of Taal Volcano based on continuous GPS Measurements
PE23A-093	4:30 PM - 6:30 PM	Milton Iv��n Ord��ez Villota, Cristian Mauricio L��pez, Maurizio Battaglia	Ground Deformation at Nevado Del Ruiz (Caldas, Colombia) and its Correlation with the Present Episode of Volcanic Unrest
PE23A-094	4:30 PM - 6:30 PM	Kaori Morita, Takeshi Matsushima, Kazunari YOKOO, Rintaro MIYAMACHI, Yoshiko TEGURI, Shiori FUJITA, Manami NAKAMOTO, Hiroshi SHIMIZU, Hitoshi MORI, Masayuki MURASE, Takahiro OHKURA, Hiroyuki INOUE, Akihiko YOKOO	Vertical ground deformation of Ioyama, Kirishima volcanoes measured by precise leveling survey (during June. 2015 - Feb. 2017)
PE23A-095	4:30 PM - 6:30 PM	Luca D'Auria, Susi Pepe, Jos�� Barrancos Mart��nez, Raffaele Castaldo, Claudio De Luca, Pedro A. Hern��ndez P��rez, Gladys Mel��n Rodr��guez, Germ��n Padilla Hern��ndez, Eleazar Padr��n Gonz��lez, Nemesio M. Per��z Rodr��guez, Pietro Tizzani	Novel insight into the 2004 seismo-volcanic unrest at Tenerife through finite-element modelling of ground deformation
PE23A-096	4:30 PM - 6:30 PM	Lourdes Narv��ez Medina, Dar��o Fernando Arcos, Maurizio Battaglia	Twenty years (1990–2010) of geodetic monitoring of Galeras volcano (Colombia) from continuous tilt measurements
PE23A-097	4:30 PM - 6:30 PM	Jos�� Barrancos, Germ��n Padilla Hern��ndez, Luca D'Auria, Rub��n Garc��a Hern��ndez, Nemesio M. Per��z Rodr��guez, Fiona Anne Burns, Pedro A. Hern��ndez P��rez, Aar��n Per��z Mart��n	A new seismic monitoring system for Canary Islands
PE23A-098	4:30 PM - 6:30 PM	Shujiro Nakatsuji, Hiroshi Aoyama	An application of the ASL method to seismic activity at Tokachi-dake
PE23A-099	4:30 PM - 6:30 PM	Diana N���ez, Francisco J N���ez-Corn��, Ad��n G��mez, Juan Manuel Sandoval, Juan I Pinz��n, Elizabeth Trejo-G��mez, Carlos Su��rez-Plascencia	Comparison of past and recent seismicity in the Ceboruco Volcano, western Mexico
PE23A-100	4:30 PM - 6:30 PM	Adrien Oth, Julien Barri��re, Nicolas Bakundukize, Georges Mavonga, Josue Subira, Niche Mashagiro, Benjamin Kafudu, Silvanos Fiamma, Gilles Celli, Jean de Dieu Bigirande, Alain Joseph Ntenge, Laurent Habonimana, Charles Bakundukize, Fran��ois Kervyn	KivuSNet: A broadband seismic network for the Lake Kivu & Virunga Volcanic Region, Democratic Republic of the Congo
PE23A-101	4:30 PM - 6:30 PM	Chiou Ting Tan, Benoit Taisne, Jurg��n Neuberger	Magma On The Move! Monitoring Magma Migration Using Synthetic Seismic Amplitude Ratio Analysis
PE23A-102	4:30 PM - 6:30 PM	Janire Prudencio, Michael Manga	Subsurface structure of Long Valley caldera imaged with seismic scattering and intrinsic attenuation
PE23A-103	4:30 PM - 6:30 PM	Richard Sanderson, Robin Matoza, David Fee, Matt Haney, John Lyons	Remote explosive volcanic eruption detection, location, and characterization using the EarthScope Transportable Array in Alaska
PE23A-105	4:30 PM - 6:30 PM	Ima Itikarai	Challenges of routing monitored volcano parameters to a central facility for effective volcano monitoring
PE23A-106	4:30 PM - 6:30 PM	Jessica Johnson	Changes in scattered seismic energy associated with eruptions at Mt Ruapehu detected using repeating earthquakes
PE23A-107	4:30 PM - 6:30 PM	Jacques Grangeon, Philippe Lesage	A new, robust, low-cost and well-calibrated infrasound sensor for volcano monitoring
PE23A-109	4:30 PM - 6:30 PM	Stephen Hernandez	Material changes at Guagua Pichincha, Ecuador gleaned from coda wave interferometry
PE23A-110	4:30 PM - 6:30 PM	Philip Benson, Marco Fazio	Generation mechanisms of fluid-driven seismic signals related to volcano-tectonics: a laboratory approach
PE23A-111	4:30 PM - 6:30 PM	Kazuya Yamakawa, Mie Ichihara	Characterization and modeling of sound generated by a bubble vibrating on liquid surface
PE23A-112	4:30 PM - 6:30 PM	Brent Delbridge, Tushar Mittal	Dispersion relations for multi-physics wave propagation
PE23A-113	4:30 PM - 6:30 PM	Maki HATA, Nobuo MATSUSHIMA, Shinichi TAKAKURA, Mitsuru UTSUGI, Takeshi HASHIMOTO	3-D electrical resistivity model beneath Aso caldera in the Southwest Japan Arc for clarifying magmatism in the crust
PE23A-114	4:30 PM - 6:30 PM	Kimiko Taguchi, Hiroyuki Kumagai, Yuta Maeda, Roberto Torres	Resonator size and fluid properties of long-period events inferred from an analytical formula for crack resonance frequencies
PE23A-115	4:30 PM - 6:30 PM	Kaori Tsukamoto, Koki Aizawa, Wataru Kanda, Makoto Uyeshima, Kaori Seki, Takahiro Kishita, Mitsuru Utsugi, Takao Koyama	Shallow resistivity structure and its relation to hypocenters and deformation sources: Iwoyama Volcano, Kirishima Volcanic Complex, Japan
PE23A-116	4:30 PM - 6:30 PM	Colin Rowell, Steven McNutt, David Fee, Mark Jellinek	Ground-coupled airwave based site-assessment for detection of volcanic explosions at regional seismic stations in Alaska

PE23A-117	4:30 PM - 6:30 PM	Rebecca Kramer, Andrew Lockhart, Aaron Rinehart, Christopher Lockett, Amberlee Darold	Keep the data flowing: an improved, integrated station design and implementation for Mount Rainier lahar detection and warning
PE23A-118	4:30 PM - 6:30 PM	Andrew Lockhart, Tom Sharp, Chris Lockett, Rebecca Kramer, Ben Pauk, Kate Allstadt, Seth Moran, Amberlee Darold	The automated Puyallup and Carbon River (Mount Rainier) lahar detection system: current upgrades and possible future directions of an 18 year-old system

PE23B: III.8 Progress in understanding submarine volcanism I Posters

Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
PE23B-119	4:30 PM - 6:30 PM	William Chadwick, Susan Merle, Carl Kaiser, Edward Baker, Sharon Walker, Joseph Resing, David Butterfield, Tamara Baumberger, Melissa Anderson, Patrick Shore, Doug Wiens, Kenneth Rubin	A recent volcanic eruption discovered on the central Mariana back-arc spreading center
PE23B-120	4:30 PM - 6:30 PM	Fukashi Maeno, Shun Nakano, Mitsuhiro Yoshimoto, Takao Ohminato, Atsushi Watanabe, Atsushi Yasuda, Takayuki Kaneko, Setsuya Nakada	Emplacement of lava flows in the sea and creation of a new volcanic island at Nishinoshima, Ogasawara, Japan, revealed from first landing and survey
PE23B-121	4:30 PM - 6:30 PM	Patricia Gregg, Daniel Fornari, Michael Trim, Dorsey Wanless, Valentina Romano, Dennis Geist, Steven Shirey, William Ridley, Matthew Smith, Craig Lundstrom, Yan Zhan, Emma McCully, Charelle Trim, Haley Cabaniss, John Albright, Bridgit Boulahanis, Yen Joe Tan	Emplacement of the 8° 20'N Seamount Chain: Preliminary results from the 2016 OASIS Expedition
PE23B-122	4:30 PM - 6:30 PM	Daniel Fornari, Patricia Gregg, Michael Perfit, Emma McCully, Megan Lubetkin, OASIS Science Team	High resolution mapping using the submersible Alvin and Sentry AUV at the 8° 20'N Seamounts: Morphostructural analysis and volcanic history
PE23B-123	4:30 PM - 6:30 PM	Gabrielle Tepp, Matthew Haney, John Lyons, William Chadwick, Susan Merle, Robert Dziak, Delwayne Bohnenstiehl	Hydroacoustic and Seismic Observations of the 2014 Submarine Eruption at Ahyi Seamount, Mariana Arc
PE23B-124	4:30 PM - 6:30 PM	Ales Spicak, Jiri Vanek	Magma migration beneath submarine volcanic arcs revealed by earthquake swarm analysis
PE23B-125 (invited)	4:30 PM - 6:30 PM	Akimichi Takagi, Nagaoka Yutaka, Keiichi Fukui, Shinobu Ando, Kazuhiro Kimura, Hiroaki Tsuchiyama	Monitoring of the 2013–2015 Nishinoshima Eruption, Japan
PE23B-126	4:30 PM - 6:30 PM	Richard Hey, Ármann Höskuldsson, Fernando Martinez	Shallow and deep submarine volcanoes at the Vestmannaeyjar archipelago and southern end of the Reykjanes Ridge
PE23B-127	4:30 PM - 6:30 PM	Rebecca Carey, Sharon Allen, Jocelyn McPhie	Vesiculation in deep submarine silicic dome-forming magmas: Sumisu Dome Complex, Izu-Bonin Arc, Japan
PE23B-128	4:30 PM - 6:30 PM	Ryan Cahalan, Josef Dufek	What controls pumice raft development? Numerical modeling of pumice transport during subaqueous eruptions

VO23A: IV.1 Remote sensing of volcanic gases from space-based, airborne and ground-based platforms II Posters

Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
VO23A-129	4:30 PM - 6:30 PM	Manuel Queisser	A new portable remote sensor for 2000 m range for airborne and ground-based measurement of CO ₂ flux
VO23A-130	4:30 PM - 6:30 PM	Nickolay Krotkov, Simon Carn, Bradford Fisher, Steven Taylor, Can Li, Pawan Bhartia, Fred Prata, Eric Hughes	First observations of volcanic eruption clouds from L1 orbit by DSCOVR/EPIC
VO23A-131	4:30 PM - 6:30 PM	Jean-François Smekens, Mathieu Gouhier	Investigating Degassing Processes with a Ground-based Hyperspectral TIR Imager: A Case Study at Stromboli Volcano
VO23A-132	4:30 PM - 6:30 PM	Andrea Gabrieli, John N Porter, Robert Wright, Paul G. Lucey	Validation Studies of the Accuracy of Various SO ₂ Gas Retrievals in the Thermal InfraRed (8–14 µm)
VO23A-133	4:30 PM - 6:30 PM	Muhammad Aufferistama, Ármann Höskuldsson, Ingibjörg Jonsdóttir, Thorvaldur Thordarson	A New Insight of Thermal Eruption Index (TEI) for Detecting and Deriving Thermal Properties of Active Lava Using Infrared Satellite during 2014-2015 Eruption at Holuhraun, Iceland
VO23A-134	4:30 PM - 6:30 PM	Matthew Varnam, Mike Burton, Giuseppe Salerno	Continuous volcanic monitoring using the SO ₂ camera
VO23A-135	4:30 PM - 6:30 PM	Danielle Moyer, Christine Sealing, Simon Carn, Michael Burton, Loïc Vanderkluyzen	Measuring H ₂ O and CO ₂ Emissions in the Mud Volcano region using Open Path FTIR (Yellowstone National Park)
VO23A-136	4:30 PM - 6:30 PM	Michael Ramsey, Matthew Watson	A new orbital concept for measuring passive volcanic degassing and small plumes
VO23A-137	4:30 PM - 6:30 PM	Elisa Carboni, Roy Grainger, Tamsin Mather, Anja Schmidt, Iolanda Ialongo	Satellite-derived sulfur dioxide (SO ₂) emissions from the 2014-2015 Holuhraun eruption (Iceland)

VO23B: IV.2 Sulfides in volcanic systems: implications for sulfur and trace metal budgets of eruptions Posters

Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
VO23B-138	4:30 PM - 6:30 PM	Tatsuhiko Kawamoto, Jun-ichi Kimura, Qing Chang, Masako Yoshikawa, Mitsuru Okuno, Tetsuo Kobayashi	An oxidizing agent of the mantle wedge: sulfate in saline fluid inclusions in harzburgite xenoliths from Pinatubo
VO23B-139	4:30 PM - 6:30 PM	Dante Canil	Diffusivities of volatile trace metals (Au, As, Bi, Cd, Cu, Tl, Pb, Mo, Re, Sn, Sb) in melts over a range of oxygen fugacity with applications to their degassing behaviour

VO23B-140	4:30 PM - 6:30 PM	Severine Moune, Olgeir Sigmarsson, Pierre-Jean Gauthier, Evgenia Ilyinskaya	Fractional magma degassing at Holuhraun, Bárðarbunga volcanic system, Iceland
VO23B-141	4:30 PM - 6:30 PM	Margaret Hartley, Emma Liu, Marie Edmonds, Fabio Arzilli, Margherita Polacci, Samantha Bell, Nolwenn Le Gall, Evgenia Ilyinskaya, Mike Burton, Michael Drakopoulos, Nghia Vo	The role of sulfides in controlling volcanic SO ₂ emissions from Icelandic eruptions: a textural approach
VO23B-142	4:30 PM - 6:30 PM	Pavel Plechov, Nikolay Nekrylov, Vesta Davydova	The source of Sulfur for porphyry-type ore deposits
VO23B-143	4:30 PM - 6:30 PM	Elisabet Head, Antonio Lanzirrotti, Matthew Newville, Steve Sutton	Vanadium, Sulfur, and Iron Valences in Melt Inclusions as a Window into Magmatic Processes at Nyamuragira Volcano, Africa

VO23C: IV.3 The role of volatiles and degassing in magmatic and eruptive processes II Posters

Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
VO23C-144	4:30 PM - 6:30 PM	Julie Oppenheimer, Katharine V. Cashman, Alison Rust, Katherine J. Dobson, Charles Bacon, Amanda Lindoo, Donald B. Dingwell	A comparison of gas-driven liquid segregation in analogue experiments and andesitic enclave textures
VO23C-145	4:30 PM - 6:30 PM	Chad Pritchard, Reed Lewis, Paul O'Sullivan	Bubble transport and vapor phase LREE enrichment of mafic enclaves
VO23C-146	4:30 PM - 6:30 PM	Tom Pering, Andrew McGonigle, Thomas Wilkes	Linking gas flow fluid dynamics with basaltic volcanic eruption style
VO23C-147	4:30 PM - 6:30 PM	Richard Herd, Marie Edmonds, Julia Woitischek, Bruce Houghton, Andrew Woods	Understanding the geochemical evolution of gas bubbles and slugs in outgassing basaltic conduits
VO23C-148	4:30 PM - 6:30 PM	Thomas Giachetti, James Gardner, Helge Gonnermann, Sahand Hajimirza	Coalescence of gas bubbles and percolation threshold in rhyolitic melt: insights from decompression experiments
VO23C-149	4:30 PM - 6:30 PM	Sahand Hajimirza, Helge Gonnermann, James Gardner, Thomas Giachetti	Predicting homogeneous bubble nucleation rate
VO23C-150	4:30 PM - 6:30 PM	Genevieve Robert, Madeline Bruno, Olin Carty, Rebecca Smith, Paige Guevarra, Alan Whittington	The viscosity of low-SiO ₂ mixed Na-K aluminosilicate melts, with and without fluorine
VO23C-151	4:30 PM - 6:30 PM	John Hamilton, Kayla Iacovino, Tobias Fischer, Armando Saballos	Application of a Thermodynamic Model Resolving Volatile Concentration Differences Between Melt Inclusions and Surface Degassing
VO23C-152	4:30 PM - 6:30 PM	Jason. P. Coumans, Edward. W. Llewellyn, Madeleine. C. S. Humphreys, Marcus Nowak, Richard. A. Brooker, Simon. A. Matthias, Iona. M. McIntosh	A new robust numerical water diffusion model with applications to rhyolitic volcanism
VO23C-153	4:30 PM - 6:30 PM	Madison Ball, James Watkins, Leif Karlstrom	Vapor–melt equilibration rates in silicic magmas
VO23C-154	4:30 PM - 6:30 PM	Fabian Wadsworth, Jeremie Vasseur, Ed Llewellyn, Jim Gardner, Danilo Di Genova, Felix von Aulock, Kai-Uwe Hess, Donald Dingwell	Water disequilibrium during welding of rhyolitic volcanic ash
VO23C-155	4:30 PM - 6:30 PM	Jacqueline Owen, Thomas Shea, Hugh Tuffen	The role of magma degassing during the explosive subglacial basaltic eruption of Katla (Iceland) in 1918
VO23C-156	4:30 PM - 6:30 PM	Catherine Gallagher, Thorvaldur Thordarson, Bruce Houghton, Maria Janebo, Zoë Decker, Kevin Burton	Shallow conduit processes during the 2014–15 Holuhraun and 1783–84 AD Laki flood basalt eruptions, Iceland
VO23C-157	4:30 PM - 6:30 PM	Deborah Bergfeld, Kurt Spicer, William Evans	Evidence for intrusion of undegassed magma during the 2004-08 eruption of Mount St Helens, USA; subtle signals from the hydrothermal system
VO23C-158	4:30 PM - 6:30 PM	Laura Clor, Peter Kelly, Steven Ingebritsen, William Evans, Deborah Bergfeld, Christoph Kern, Michael Doukas, Aaron Rinehart	Gas emissions monitoring at Mount Hood volcano, Oregon, USA
VO23C-159	4:30 PM - 6:30 PM	Angelica Rodriguez, Rachel Teasdale	Monitoring hydrothermal water temperature and composition at the Lassen Volcanic Center, Southern Cascades
VO23C-160	4:30 PM - 6:30 PM	Kerry Reid, Hazel Rymer, Stephen Blake, Glyn Williams Jones, John Murray	A detailed anatomy of the current degassing cycle at Masaya volcano, Nicaragua
VO23C-161	4:30 PM - 6:30 PM	Fiona D'Arcy, Étienne Boucher, Maarten De Moor, Jean-Francois Helie, John Stix	Isotopes in tree rings as a proxy of volcanic degassing: A geochemical study of the gas plume at Turrialba volcano, Costa Rica
VO23C-162	4:30 PM - 6:30 PM	Marcela Pizarro, Claudia Cannatelli, Diego Morata	CO ₂ budget constraints of Lastarria volcano, Central Volcanic Zone, northern Chile
VO23C-163	4:30 PM - 6:30 PM	Giancarlo Tamburello, Séverine Moune, Patrick Allard, Swetha Venugopal, Vincent Robert, Marina Rosas-Carbajal, Thierry Kitou, Francois Beauducel, Jean-Christophe Komorowski	Spatio-temporal relationships between fumarolic degassing, hydrothermal fluid circulation and lava dome deformation at La Soufrière volcano, Guadeloupe (Lesser Antilles)
VO23C-164	4:30 PM - 6:30 PM	Giancarlo Tamburello, Vincent Robert, Jean-Christophe Komorowski, Thierry Kitou, Patrick Allard, Arnaud Lemarchand, Celine Dessert, Anne Le Friant	Real-time gas monitoring of a fumarolic field: application at La Soufrière of Guadeloupe (Lesser Antilles)
VO23C-165	4:30 PM - 6:30 PM	Germán D. Padilla, Eleazar Padrón, Pedro A. Hernández, Roberto Quevedo, Nemesio M. Pérez, José Barrancos, Gladys V. Melián, María Asensio-Ramos	Soil ²²² Rn and CO ₂ efflux continuous measurements for the geochemical monitoring of the oceanic active volcano island of Gran Canaria, Canary Islands
VO23C-166	4:30 PM - 6:30 PM	Kristen Rahilly, Tobias Fischer, Tehnuka Ilanko, Louis Scuderi, Laura Crossey	Spatial distribution of diffuse carbon dioxide degassing at Valles caldera, New Mexico with comparison to other geothermal systems
VO23C-167	4:30 PM - 6:30 PM	Rebecca Lynch, Dante Canil	Condensation behaviour of volatile trace metals in laboratory benchtop fumarole experiments

VO23C-168	4:30 PM - 6:30 PM	Gladys V. Melián, Maria Asensio-Ramos, Cecilia Amonte, Mar Alonso, Marta García-Merino, Fátima Rodríguez, Eleazar Padrón, José Barrancos, Pedro A. Hernández	Diffuse H ₂ degassing emission to monitor changes of volcanic activity
VO23C-169	4:30 PM - 6:30 PM	Joshua Blackstock, Matthew Covington, Joseph Myre, Phillip Hays	Direct dissolved CO ₂ measurement in low-temperature waters using a low-cost measuring and data logging platform for a diverse range of hydrogeologic settings
VO23C-170	4:30 PM - 6:30 PM	Iona McIntosh, Alexander Nichols, Kenichiro Tani, Ed Llewellyn	Accurately measuring H ₂ O in volcanic glasses: application of a new FTIR spectroscopy method
VO23C-171	4:30 PM - 6:30 PM	Stefania Sicola, Danilo Di Genova, Claudia Romano, Alessandro Vona, Sara Fanara, Kai-Uwe Hess, Donald B. Dingwell, Patrizia Landi	Raman spectra of hydrous volcanic glasses: effects of chemical composition on water content estimation
VO23C-172	4:30 PM - 6:30 PM	Carlos A. Angeles De La Torre, Julie Roberge, Gilles Levresse, Celestine N. Mercer, Kevin G. Pedroza-Aldana	Comparing melt inclusions preparation methods in crystals from Popocatepetl Volcano
VO23C-173	4:30 PM - 6:30 PM	Erin Hoxsie, Thomas Giachetti, James Watkins, James Gardner	Evidence for CO ₂ fluxing from CO ₂ -H ₂ O anticorrelations in obsidian pyroclasts
VO23C-174	4:30 PM - 6:30 PM	Libby Anthony	Fluorine behavior in trachyte-phonolite rocks, Suswa volcano, Central Kenya Peralkaline Province (CKPP), East African Rift
VO23C-175	4:30 PM - 6:30 PM	Masataka Kawaguchi, Toshiaki Hasenaka, Atsushi Yasuda, Natsumi Hokanishi, Yasushi Mori	High-sulfur basalt hosted in olivine as an indicator of magma supply beneath Aso, central Kyushu, Japan
VO23C-176	4:30 PM - 6:30 PM	Syegi Kunrat, Martin Streck, Heather Wright	Soputan volcano, Indonesia: petrological systematics of volatiles and magmas and their bearing on explosive eruptions of a basalt volcano
VO23C-177	4:30 PM - 6:30 PM	Maria Carmencita Arpa, Bruce Christenson, Georg Zellmer, Ian Schipper, Jonathan Procter, Robert Stewart	Volatile Content of Tongariro Volcanic Complex Magmas
VO23C-178	4:30 PM - 6:30 PM	Simone Cogliati, Sarah Sherlock, Alison Halton, Kerry Reid, Tiffany Barry, Mike Branney, Simon Kelley	Noble gases: a tool to track the degassing of active volcanic systems
VO23C-179	4:30 PM - 6:30 PM	Keiko Sato, Yoshinori Takebe, Seiko Yamasaki, Hidenori Kumagai, Naoyoshi Iwata, Masao Ban	The noble gas isotope anomaly in the newest-stage products of Zao volcano, NE Japan
VO23C-180	4:30 PM - 6:30 PM	Klaus Mayer, Cristian Montanaro, Roberto Isaia, Marceau Gresse, Bettina Scheu, Tim Yilmaz, Jean Vandemeulebrouck, Tullio Ricci	On the role of the subsoil on surficial degassing processes at Solfatara crater, Campi Flegrei caldera

VH23A: V.2 Volcano geomorphology and sedimentology: topography, processes, and deposits I Posters

Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
VH23A-181	4:30 PM - 6:30 PM	Lee Siebert, James W. Vallance	LARGE-VOLUME EDIFICE FAILURES IN THE CASCADE RANGE OF SOUTHERN BRITISH COLUMBIA TO NORTHERN CALIFORNIA
VH23A-182	4:30 PM - 6:30 PM	Daniel Sierra, Francisco Vásquez, Marco Almeida, Daniel Andrade, Patricia Mothes	Characterization of lahar deposits corresponding to Cotopaxi Volcano's historical eruptions along the eastern drainage (Ecuador)
VH23A-183	4:30 PM - 6:30 PM	Kyoko Kataoka, Yoshitaka Nagahashi, Atsushi Urabe	Traceable cohesive lahar deposits in volcanic fan, delta, and lake floor environments, Adatara volcano, northeast Japan
VH23A-185	4:30 PM - 6:30 PM	Engielle Mae Paguican, Matthieu Kervyn	Quantitative analogue modelling of volcano landscape evolution in response to tectonics and erosion
VH23A-186	4:30 PM - 6:30 PM	Kristin Sweeney, Jon Major	Quantifying the role of initial conditions in drainage network configuration, Mount St. Helens, WA
VH23A-187	4:30 PM - 6:30 PM	Adam Mosbrucker, Jon Major, Kurt Spicer	As decades roll by, Mount St. Helens' sediment keeps on truckin'
VH23A-188	4:30 PM - 6:30 PM	Olga K. Vilmundardóttir, Friðþór S. Sigurmundsson, Gro B.M. Pedersen, Fadi Kizel, Nicola Falco, Joaquín M.C. Belart, Guðrún Gísladóttir, Jón A. Benediktsson	Examining primary succession for the past 850 yrs on the lava-chronosequence of Hekla volcano in south Iceland
VH23A-189	4:30 PM - 6:30 PM	Danielle Molisee, Sylvain Charbonnier, Aurelie Germa, John Bell	Cinder Cone Age Estimation Based on Cone Morphology Using Two-Dimensional Nonlinear Diffusive Numerical Modeling, Buffalo Valley Volcanic Field, Nevada, USA
VH23A-190	4:30 PM - 6:30 PM	Szabolcs Kósik, Karoly Nemeth, Jonathan Procter, Mark Bebbington	Hazard implications of silicic small-volume volcanism within the Taupo Volcanic Zone, New Zealand: spatial, temporal, volumetric and eruptive style distribution of the eruptive vents
VH23A-191	4:30 PM - 6:30 PM	Eliecer Duarte	Summit Geomorphological Changes Due to Ash and Pyroclasts Emplacement Near the Active Crater of Turrialba Volcano: Costa Rica
VH23A-192	4:30 PM - 6:30 PM	Inga Tarasenko, Pierre Delmelle, Charles Biielders, Alicia Guevara	Crusting of volcanic tephra deposits: an experimental study
VH23A-193	4:30 PM - 6:30 PM	Kimberly Genareau, William Back, Carol Stewart, Shane Cronin	Chemical Impacts of Remobilized Volcanic Deposits on Water Quality: The Role of Mineralogy

VH23B: V.3 Modelling volcanic hazards II Posters

Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
VH23B-194	4:30 PM - 6:30 PM	JooYong Lee, HyunA Son, SungSu Lee	Complementation of Lagrangian particle diffusion model for analysis of volcanic ash dispersion
VH23B-195	4:30 PM - 6:30 PM	Leah Courtland, Carlos Laverde	Quantifying Differences in Methodologies for Forecasting Tephra Fallout

VH23B-196	4:30 PM - 6:30 PM	Hisashi Sasaki, Shino Naruke, Tatsuro Chiba, Hiroyuki Yamada	Investigation and analysis of damage caused by lapilli fall during the eruption of Aso Volcano, Japan on October 8, 2016
VH23B-197	4:30 PM - 6:30 PM	Kae Tsunematsu, Rebecca Fitzgerald, Ben Kennedy, Christopher Gomez, Jean-Luc Falcone, Bastien Chopard	Open Source 3D Multiparticle Ballistic Simulator "Ballista"
VH23B-198	4:30 PM - 6:30 PM	Aprilia Nurmawati, Konstantinos I. Konstantinou	Modeling of volcanic ballistic projectiles during hydrothermal and vulcanian eruptions at Tatun Volcano Group, northern Taiwan
VH23B-199	4:30 PM - 6:30 PM	Natalia Deligne, Gill Jolly, Tony Taig, Nico Fournier	Quantifying life-safety risk at active volcanoes: a decision support tool for volcano observatories
VH23B-200	4:30 PM - 6:30 PM	Koji Kiyosugi	Frequency of volcanic eruptions and long-term magma discharge rate in sub-regions in Japan
VH23B-201	4:30 PM - 6:30 PM	Young Sunwoo, Doyoon Kim, Yoo Jung Kim, Jae Eun Park, Hyerim Park	3-Dimensional Chemical Transport Model Application for Risk Assessment of Potential Volcanic Disaster around Korean Peninsula
VH23B-202	4:30 PM - 6:30 PM	Melanie Kelman	Modeling potential lahar inundation zones at Mount Garibaldi and Mount Cayley in southwest British Columbia's Garibaldi Volcanic Belt
VH23B-203	4:30 PM - 6:30 PM	Antoine Dille, Sam Poppe, Sophie Mossoux, Hamidi Soulé, Matthieu Kervyn	Small scale lahars at Karthala volcano: comparing probabilistic Q-LavHA and LAHARZ simulations
VH23B-204	4:30 PM - 6:30 PM	Mario Angarita, Jillian Pearce, Scott Henderson	Deformation processes in the region Galeras volcano using InSAR Images
VH23B-205	4:30 PM - 6:30 PM	Lauren Schaefer, Ben Kennedy, Marlene Villeneuve, Stefan Cook, Harry Keys, Graham Leonard, Art Jolly	Geotechnical characterization and numerical modeling of crater rim stability at Mt. Ruapehu, New Zealand
VH23B-206	4:30 PM - 6:30 PM	Sung-Hyo Yun, Cheol-Woo Chang	Pyroclastic Density Current Simulation using TITAN2D for Jeju Volcanic Island, Korea
VH23B-207	4:30 PM - 6:30 PM	Karim Kelfoun, Valentin Gueugneau	A two-fluid depth-averaged model for block-and-ash flows and ash-cloud surges
VH23B-208	4:30 PM - 6:30 PM	Victoria Miller, Matthew Garthwaite, Rikki Weber, Jonathan Griffin, Grant Cox	Volcanic-tsunami hazard assessment – A case study from Heard Island and McDonald Islands, Australia
VH23B-209	4:30 PM - 6:30 PM	Raphael Paris, Martina Ulvrova, Karim Kelfoun, Olivier Roche	The challenge of volcanic tsunami modelling
VH23B-210	4:30 PM - 6:30 PM	Þóra Andrésardóttir, Armann Höskuldsson, Joan Martí Molist, Ingibjörg Jónsdóttir, Thor Thordarson	Evaluating volcanic hazard at the Reykjanes Peninsula, Iceland. Use of Vetools software bundle for geological data analyses and hazard predictions

ER23A: VI.1 Volcano-hydrothermal system dynamics: Hazards, resources, and extremophiles II Posters
Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
ER23A-211	4:30 PM - 6:30 PM	Lara Smale, Christopher Kilburn, Stephen Edwards	A Crustal Damage Model for Coupling the Magmatic and Hydrothermal System and the Control on Ground Movements at Campi Flegrei Caldera, Italy
ER23A-212	4:30 PM - 6:30 PM	Max Rudolph, Rob Sohn	A model for internal oscillations in geysers, with application to Old Faithful (Yellowstone, USA)
ER23A-213	4:30 PM - 6:30 PM	Rossella Di Napoli, Alessandro Aiuppa, Stefano Valenza, Giovanni Chiodini, Attilio Sulli, Valerio Accocella, Giuseppe Ciraolo, Mauro Antonio Di Vito, Francesco Interbartolo, Marco Milazzo, Carmelo Nasello, Gabriele Turco, Mariano Valenza	A NOHTL METHOD FOR QUANTIFYING THE CO ₂ OUTPUT FROM SUBMARINE VOLCANO-HYDROTHERMAL SYSTEMS
ER23A-214	4:30 PM - 6:30 PM	Patrick Hayman, Ray Cas, Rick Squire, David Douth, Ian Campbell, Mimi Chen	Archean 'Dolerites': stratigraphic architecture, emplacement origins and association with orogenic gold
ER23A-215	4:30 PM - 6:30 PM	Cyndi Kelly	Back-Projection Imaging of extended diffuse pre-, co-, and post-eruptive seismic sources at El Jefe Geyser, El Tatio Geyser Field, Chile
ER23A-216	4:30 PM - 6:30 PM	Noah Randolph-Flagg, Stephen Breen, Andres Hernandez, Michael Manga, Steve Self	Erosional columns in the Bishop Tuff as relicts of boiling in a cooling tuff
ER23A-217	4:30 PM - 6:30 PM	Jennifer Lewicki, Peter Kelly, Deborah Bergfeld, Jacob Lowenstern	Gas and heat emissions at Norris Geyser Basin, Yellowstone National Park, USA based on a combined eddy covariance and Multi-GAS approach
ER23A-218	4:30 PM - 6:30 PM	Katharine Maussen, Edgardo U. Villacorte, Raymond Patrick R. Maximo, Ma. Antonia V. Bornas, Alain Bernard	Geochemical evidence for magmatic intrusions at Taal Volcano, Philippines
ER23A-219	4:30 PM - 6:30 PM	Hyunwoo Lee, Tobias Fischer, Maarten de Moor, Zachary Sharp, Naoto Takahata, Yuji Sano	Geochemistry of volatiles in springs at the Costa Rican subduction zone
ER23A-220	4:30 PM - 6:30 PM	Cristian Montanaro, Shane Cronin, Bettina Scheu, Ben Kennedy, Bradley Scott, Donald B. Dingwell	Host rock influence on the energy partitioning and crater morphology of steam-driven eruptions
ER23A-221	4:30 PM - 6:30 PM	Xavier Bolós, Gerardo Cifuentes, José Luis Macías, Giovanni Sosa-Ceballos, Felipe García, Víctor Gámez, Mariela Albor, Mónica Juárez	Hydrothermal system of Cerritos Colorados geothermal field (La Primavera caldera, Guadalajara, Mexico) inferred from an electrical resistivity tomography survey
ER23A-222	4:30 PM - 6:30 PM	Raymond Patrick Maximo, Alain Bernard, Katharine Maussen, Ryan Rebadulla, Ericson Bariso, Deborah Fernandez	Insights into the magmatic-hydrothermal activity using major and trace elements and isotopic values of thermal spring waters from active volcanoes in the Philippines
ER23A-223	4:30 PM - 6:30 PM	Carolina Munoz-Saez, Michael Manga, Shaul Hurwitz, Maxwell Rudolph, Atsuko Namiki, Seth Saltiel	What have we learned about geyser dynamics from El Tatio, Chile?
ER23A-224	4:30 PM - 6:30 PM	Claire Bouligand, Svetlana Byrdina, Marceau Gresse, André Revil, Jean Vandemeulebrouck, Shaul Hurwitz	Joint interpretation of magnetic and electric resistivity surveys in Yellowstone and Campi Flegrei vapor-dominated hydrothermal systems
ER23A-225	4:30 PM - 6:30 PM	Barbara I. Kleine, Andri Stefánsson, Saemundur A. Halldórsson, Martin J. Whitehouse, Kristján Jónasson	Origin of quartz in the Icelandic crust evident from ⁶³⁰ Si and ⁶¹⁸ O isotope
ER23A-226	4:30 PM - 6:30 PM	Ryunosuke Kazahaya, Hiroshi Shinohara, Toshiya MORI, Masato IGUCHI, Akihiko YOKOO	Pre-eruptive inflation caused by gas accumulation: Insight from detailed gas flux variation at Sakurajima volcano, Japan

ER23A-227	4:30 PM - 6:30 PM	Jóhann Gunnarsson-Robin, Andri Stefánsson, Shuhei Ono, Sæmundur Ari Halldórsson, Martin Whitehouse	Sulfur chemistry and isotopes in geothermal fluids and crustal minerals in Iceland
ER23A-228	4:30 PM - 6:30 PM	Eduardo Cartaya, Lee Florea, Andreas Pflitsch	Systematic Investigations of the Summit Fumarole Caves of Mount Rainier, Washington State, U.S.A.
ER23A-229	4:30 PM - 6:30 PM	Shaul Hurwitz, Jacob B. Lowenstern, James J. Thordsen, Jeffrey T. Cullen, Jaime D. Barnes, Emma G. McConville, Mark E. Szymanski	The source and fate of the halogens fluorine, chlorine, and bromine in the Yellowstone Plateau Volcanic Field hydrothermal system
ER23A-230	4:30 PM - 6:30 PM	Isabelle Chambefort, Colin J.N. Wilson, Julie V. Rowland	New (Zealand) perspectives on continental arc geothermal systems
ER23A-231	4:30 PM - 6:30 PM	Michael Rowe, Yuli Heled, Isabelle Chambefort, Colin Wilson	Vapour phase alteration and cooling of compound ignimbrite sheets: the silica story
ER23A-232	4:30 PM - 6:30 PM	Takumi Imura, Tsukasa Ohba, Mitsuhiro Nakagawa	Volcanic fluids-rock interaction inferred from characteristics of altered minerals in volcanic products at Tokachidake volcano, central Hokkaido, Japan

ER23B: VI.2 New approaches to understanding magma and volatile evolution, sub-volcanic intrusions and porphyry ore mineralization II Posters

Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
ER23B-233	4:30 PM - 6:30 PM	Jacob Lowenstern, Vincent Van Hinsberg, Kim Berlo, Heather Wright, Kayla Iacovino, Moritz Liesegang, Ilya Bindeman	Opal in pumice from the 1817 phreatomagmatic event at Kawah Ijen, Java (Indonesia): its origins and implications
ER23B-234	4:30 PM - 6:30 PM	Reza Firmansyah Hasibuan, Tsukasa Ohba, Mirzam Abdurrahman, Takashi Hoshide	MAGMAS CHARACTERISTICS OF RAJABASA VOLCANIC COMPLEX INFERRED BY PETROLOGICAL APPROACH
ER23B-235	4:30 PM - 6:30 PM	Peter Larson, Jerry Fairley, Nick McMillan, Cary Lindsey, Brady Lubenow	A Comparison of Heat Transfer Modes from a Thermal Discharge Area in the Yellowstone Caldera
ER23B-236	4:30 PM - 6:30 PM	Yannick Buret, Joern-Frederik Wotzlaw, Stan Roozen, Marcel Guillong, Albrecht von Quadt, Christoph Heinrich	Volatiles at the plutonic - volcanic connection: An example of an explosive eruption terminating porphyry copper ore formation

ER23C: VI.3 Application of geological mapping and field surveys to different exploitation contexts (geothermal and ore deposits) II Posters

Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
ER23C-237	4:30 PM - 6:30 PM	Jeffrey Zurek, Glyn Williams-Jones, Isabelle Lépine	Geologically-constrained geophysical inversions of the Renard kimberlite pipes, northern Québec, Canada
ER23C-238	4:30 PM - 6:30 PM	Kate Mauriohooho, Shaun L. L. Barker	Mapping lithology and hydrothermal alteration in geothermal systems: traditional versus portable techniques
ER23C-239	4:30 PM - 6:30 PM	Ellen Lamont, Andrew Meigs, Philip Wannamaker	Stress-state, slip-tendency, and magmatism along faults within the Cascadian arc-backarc region of central Oregon
ER23C-240	4:30 PM - 6:30 PM	Fátima Rodríguez, Gladys V. Melián, Egbert Jolie, Anna Jentsch, Andrew Rae, Agnes Mazot, Mark Harvey, Eleazar Padrón, Pedro A. Hernández	Surface geochemical mapping for geothermal exploration research at the Taupo Volcanic Zone, New Zealand
ER23C-241	4:30 PM - 6:30 PM	Richard Brown, Brian Bell, David Reynolds, Sam Clark, Jonny Dietz, Clayton Grove, Richard Hobbs, Dougal Jerram, Niall Mark, Simon Passey, Bansri Raithatha, Heather Rawcliffe, Peter Reynolds, Oliver Sanford, Nick Schofield, Richard Walker, Sapphire Wanmer, Timothy Watton, Kirstie Wright	Unravelling the Impacts of Volcanic and Intrusive Igneous Rocks on Hydrocarbon Systems in Sedimentary Basins: examples from the North Atlantic

VS23A: VII.2 Volcanic geoheritage II Posters

Tuesday August 15, 2017. 4:30 PM - 6:30 PM Exhibit Hall A

Abstract Number	Time	Authors	Title
VS23A-242	4:30 PM - 6:30 PM	Daniele Andronico, Gilda Currenti, Sergio Longo, Lorenzo Brusca, Sergio Calabrese, Tommaso Caltabiano, Antonino Cristaldi, Walter D'Alessandro, Cinzia Federico, Ferruccio Ferrari, Filippo Greco, Alessandro La Spina, Manfredi Longo, Lucia Messina, Rosalba Napoli, Danilo Reitano, Giuseppe Salerno, Antonino Sicali	SEW – Save the Etna World
VS23A-243	4:30 PM - 6:30 PM	Chelsea Leven, Lindsay Ellingson, Benjamin van Wyk de Vries, William Rose	Supporting global geoheritage through international collaboration for a potential Ometepe Geopark in Nicaragua
VS23A-244	4:30 PM - 6:30 PM	Avtandil Okrostsvaridze, Nino Popkhadze, Sun-Lin Chung	Zircons U-Pb dating of Mtkvari canyon volcanic flow (Georgia) and destructive processes of Vardzia cave city hewn into this flow

Thursday, August 17

Plenary Session			
Thursday August 17, 2017. 8:30 AM - 10:00 AM OCC Oregon Ballroom 201-203			
		Brandon Schmandt	Advancing volcano seismology with large-N seismic array
		William Chadwick	Axial Seamount: Recent results from the most active volcano in the US Pacific Northwest

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 Blass, 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 Ghiorso	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, Tàrsilo 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 Braunmiller, 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 Infrasound
PE41B-2	10:45 AM - 11:00 AM	Kathleen McKee, David Fee, Matthew Haney, John Lyons, Robin Matoza	Infrasound 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 Nooner, 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	Kazuhiro 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 Mastroioli, 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 DEgassing: 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, Alessansro Aiuppa, Giancarlo Tamburello, Joao Lages, Pablo Masías, 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 Narváez, 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, Esline 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 Mouné, 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 Zimmerer	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 Sherrod, 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?
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ME42A: II.5 Using geochronology and quantitative petrology to understand the P-T-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 Novothy, 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 Willey, 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 Kilauea 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, Bryndís Brandsdóttir, Þorbjörg Ágústsdóttir, Jenny Woods, Robert White	Volcano monitoring with seismic noise-based methods: insights from the Northern Volcanic Zone, Iceland and Kilauea, 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	Thorbjorg 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 Aguaiza, 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 Houghton, 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? I 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 Wysoki	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 40Ar/39Ar 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 Parícutin 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 87Sr/86Sr 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-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' Micheli 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' Micheli 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 Holzmüller, 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 Ibarquengotia, 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 García 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 Ferazzini, 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 Avaré, Marcello Bitetto, Gaetano Giudice, Hindele 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 | 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 Pistolesi, 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 | 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 lighting
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 Donnadieu, Valentin Freret-Logeril, 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-Logeril, Franck Donnadieu, Julia Eycheenne, Thierry Latchimy	Physical characterization of ash at Stromboli volcano: Implications on terminal settling velocity
VO43A-142	4:00 PM - 6:00 PM	Valentin Freret-Logeril, Franck Donnadieu, 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, Russell 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, JohnW. 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. Vilmondardóttir, 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 Labrière, 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 Adatara 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	Bergun 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 Niufo’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 Fjalar 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 Dohane, 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	Monserat Cascante, Maarten DeMoor, Cyril Muller, Geoffroy Avard, Maria Martinez, Javier Pahco, Jorge Brenes	Development of a volcanic crisis protocol for the Observatorio Vulcanológico y Sismológico de Costa Rica, OVSICORI
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 Saludez, 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 Kauhikaua	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

Friday August 18

Plenary Session			
Friday August 18, 2017. 8:30 AM - 10:30 AM OCC Oregon Ballroom 201-203			
		Vickie McConnell	Interfacing Science with Government: You Don't Always Get What You Want
		Peter Frenzen	Interfacing with the Public: Lessons Learned from 30 Years of Science Messaging at Mount St. Helens

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			
Abstract Number	Time	Authors	Title
ME51A-1 (invited)	10:30 AM - 10:45 AM	Alessandro Vona, Andrea Di Piazza, Eugenio Nicotra, Claudia Romano, Marco Viccaro, Guido Giordano	The complex rheology of megacryst-rich magmas
ME51A-2	10:45 AM - 11:00 AM	Ikuro Sumita, Nao Yasuda, Moe Mizuno, Heiko Woith, Eleonora Rivalta	Experiments on shaking-induced fluidization in a liquid-immersed granular medium : implications for triggering eruptions
ME51A-3	11:00 AM - 11:15 AM	Rebecca Coats, Biao Cai, Jackie E Kendrick, Paul A Wallace, Taka Miwa, Adrian J Hornby, James D Ashworth, Felix W von Aulock, Peter D Lee, Jose Godinho, Yan Lavallée, Robert C Atwood	An experimental investigation into magma rheology using natural and analogue materials
ME51A-4 (invited)	11:15 AM - 11:30 AM	James Gardner, Fabian Wadsworth, Edward Llewellyn, James Watkins, Jason Coumans	Sintering of Ash Under Conduit Conditions: Experiments and Implications for the Longevity of Tuffsite Fractures
ME51A-5	11:30 AM - 11:45 AM	Arianna Soldati, Alan Whittington, Lucia Gurioli, Andrew Harris, Maeva Rhéty, Nicolas Villeneuve	Does lava remember its own thermal history? A new experimental approach to investigate subliquidus rheology applied to the December 2010 eruption of Piton de La Fournaise (La Réunion)
ME51A-6	11:45 AM - 12:00 PM	Jerome Mayeux, Barbara Tripoli, Michael Manga	Effect of deformation on the crystallization kinetics of magmas
ME51A-7	12:00 PM - 12:15 PM	Mattia Pistone	Heating or cooling felsic crystal mushes to extract melt? An experimental evaluation of melt extraction efficiency in shallow volcanic systems
ME51A-8	12:15 PM - 12:30 PM	Johannes Klein, Sebastian Mueller, Jonathan Castro	The influence of crystal size distributions (CSD) on the rheology of magma: new insights from analogue and petrological experiments

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			
Abstract Number	Time	Authors	Title
ME51B-1	10:30 AM - 10:45 AM	Phil Shane, Victoria Smith, Sonja Storm, Axel Schmitt	Long-lived crystal mushes, short-lived eruptible magmas, and various crystal records: Okataina rhyolite volcano
ME51B-2 (invited)	10:45 AM - 11:00 AM	Michael Stock, Madeleine Humphreys, Victoria Smith, Roberto Isaia, Richard Brooker, David Pyle	Tracking pre-eruptive volatile behaviour at Campi Flegrei, Italy, through integrated analysis of apatite and glass
ME51B-3	11:00 AM - 11:15 AM	Taya Flaherty, Tim Druitt, Gareth Fabbro, Fidel Costa, Katie Preece, Chad Deering	Timescales of final magma chamber assembly prior to the Minoan eruption of Santorini from Fe-Mg diffusion chronometry in pyroxenes
ME51B-4	11:15 AM - 11:30 AM	Thomas Shea	Probing olivine for chemical zoning and timescales: insights from crystallization experiments in natural basalt
ME51B-5	11:30 AM - 11:45 AM	Fiona Couperthwaite, Daniel Morgan, Thor Thordarson, Jason Harvey	Diffusion chronometry: potential and problems as a volcano eruption monitoring tool
ME51B-6	11:45 AM - 12:00 PM	Kendra J. Lynn, Thomas Shea, Michael O. Garcia, Fidel Costa	A new application of lithium diffusion in olivine to investigate late-stage mixing events at Kilauea Volcano (Hawaii)
ME51B-7	12:00 PM - 12:15 PM	Chiara Maria Petrone, Martin Mangler	The interplinian activity at Popocatepetl volcano (Mexico): months-scale magma mixing events at a steady-state active volcano
ME51B-8 (invited)	12:15 PM - 12:30 PM	Mark Stelten, Kari Cooper	Petrologic evidence for the current state of Yellowstone's magmatic system

PE51A: III.1 Forecasting volcanic eruptions IV			
Friday August 18, 2017. 10:30 AM - 12:30 PM Room B117-119			
Abstract Number	Time	Authors	Title
PE51A-1 (invited)	10:30 AM - 10:45 AM	Devy Kamil Syahbana, Martanto Martanto, Novia Abdul-Manaf, Heruningtyas Desi Purnamasari, Annisa Prastanti, Nia Haerani, Iling Kusnadi, Ferry Rusmawan, Aditya Sebastian Andreas, Oktory Prambada, Ugan Boyson Saing, Yudhi Wahyudi, Syarif Abdul-Manaf, David Adriansyah, Syegilenarahmi Kunrat, Yasa Suparman, Ardy Setya Prayoga, Girie Maiyuana, Mardian Hardipto	Eruption precursors: A case study from volcanoes in eastern region of Indonesia
PE51A-2 (invited)	10:45 AM - 11:00 AM	J. Maarten de Moor, Cyril Muller, Javier Marso, Mauricio Mora, Geoffroy Avaré, Alessandro Aiuppa, Guillermo Alvarado, Christoph Kern, Peter Kelly, Jeremy Pesicek, Heather Wright, John Pallister, Jeff Marso	The slow awakening of Turrialba Volcano: An increasing challenge for eruption forecasts
PE51A-3	11:00 AM - 11:15 AM	Michelle Coombs, Alaska Volcano Observatory Staff	Forecasting and detection during the 2016-2017 eruption of Alaska's Bogoslof volcano
PE51A-4	11:15 AM - 11:30 AM	Jack Simmons, Ray Cas, Tim Druitt, Rebecca Carey	Precursors to explosive volcanic eruptions at Santorini caldera, Greece: perspectives from the geological record
PE51A-5	11:30 AM - 11:45 AM	Masato Iguchi	Probabilistic forecasting of amounts of volcanic ash ejected by vulcanian eruptions at the Sakurajima volcano, Japan

PE51A-6	11:45 AM - 12:00 PM	Joaquin Cortes, Stephen Blake	Forecasting in real-time Volcanic Eruptions Based on Ground Deformation Data
PE51A-7	12:00 PM - 12:15 PM	Gonalo Prates, Manuel Berrococo, Alberto Fernandez-Ros, Luis Miguel Peci, Amos De Gil, Belen Rosado, Raul Paez	Methodological framework for near real-time volcano monitoring developed on Deception volcano (Antarctic Peninsula)
PE51A-8	12:15 PM - 12:30 PM	Andrea Bevilacqua, Marcus Bursik, Abani Patra, E. Bruce Pitman	Multi-model probability assessments in the Long-Valley volcanic region (CA)

PE51B: III.2 Geophysical multi-parameters techniques for monitoring active volcanoes IV**Friday August 18, 2017. 10:30 AM - 12:30 PM Ballroom 201-203**

Abstract Number	Time	Authors	Title
PE51B-1	10:30 AM - 10:45 AM	Hazel Rymer, Glyn Williams-Jones, John Murray, Pierre Delmelle, Kerry Reid, Guillermo Caravantes-Gonzalez	Precursors to the current activity at Masaya volcano, Nicaragua
PE51B-2	10:45 AM - 11:00 AM	Takeshi Hashimoto, Masami Matsumoto, Risa Okamoto, Hiroshi Koyama, Atsushi Morii, Wataru Mishima, Tagiru Ogino, Ryo Takahashi	Long-term Correlation between Geomagnetic Filed Changes, Ground Deformation and Gas Composition at Mt. Tarumae Volcano, Northern Japan
PE51B-3	11:00 AM - 11:15 AM	Viviane Souty, Sylvie Vergnolle, Christelle Zielinski, Philipson Bani, Alexis Le Pichon, Michel Lardy, Philippe Millier, Pascal Herry, Sylvain Todman	Insights on eruptive patterns at open-vent volcanoes from simultaneous infrasonic, thermal and seismic records at Yasur volcano (Vanuatu)
PE51B-4	11:15 AM - 11:30 AM	Luis Miguel Peci Sanchez, Manuel Berrococo Dominguez, Alberto Fernandez-Ros, Gonalo Prates, Amos De Gil, Raul Paez, Belen Rosado Moscoso	VALIDATION OF THE MULTIPARAMETRIC SYSTEM FOR VOLCANIC SURHTILLANCE ON DECEPTION ISLAND (ANTARCTICA): VOLCANIC PROCESS 2012-2017
PE51B-5	11:30 AM - 11:45 AM	Yoichi Sasai, Makoto Uyeshima, Jacques Zlotnicki	Magnetic variations associated with the tilt-step events during the 2000 eruption of Miyake-jima volcano revisited
PE51B-6	11:45 AM - 12:00 PM	Gregory Waite, Kyle Brill, Monica Castro-Escobar	The persistent eruptive activity at Fuego volcano, Guatemala: a multi-instrumental evaluation of processes with timescales from seconds to months
PE51B-7	12:00 PM - 12:15 PM	Richard Middlemiss	Miniaturised Gravity Sensors for Remote Gravity Surveys
PE51B-8	12:15 PM - 12:30 PM	Jacques Zlotnicki, Yoichi Sasai, Malcolm Johnston, George Vargemezis, PHIVOLCS EM (E. Villacorte, P. Reniva, P. Alanis, Juan M. Gordon Jr) Team	Taal volcano in Philippines: What is the future?

PE51C: III.3 Multidisciplinary constraints on volcanic eruption triggers II**Friday August 18, 2017. 10:30 AM - 12:30 PM Room B113**

Abstract Number	Time	Authors	Title
PE51C-1 (invited)	10:30 AM - 10:45 AM	Christy Till	An Integrated Approach for Identifying the P-T-X-t Histories and Eruption Triggers for Silicic Magmas; An Example Examining the Scaup Lake Rhyolite, Yellowstone Caldera, WY
PE51C-2	10:45 AM - 11:00 AM	Lucy McGee, Heather Handley, Mark Reagan, Simon Turner, Kim Berlo, Michael Turner, Jenni Barclay, Steve Sparks	Testing the mafic trigger hypothesis at Soufriere Hills Volcano, Montserrat, using short-lived U-series isotopes
PE51C-3	11:00 AM - 11:15 AM	Jon Blundy, Oleg Melnik, Natasha Gorokhova, Ralf Dohmen	Rapid Destabilisation of the Magma System Beneath Mount St Helens prior to 1980-86 Eruption
PE51C-4	11:15 AM - 11:30 AM	Jen Truby, Ed Llewellyn, Jacopo Taddeucci, Mike Dungan	Mobilizing a magma mush through bubble growth – rheological triggering of the largest eruptions
PE51C-5	11:30 AM - 11:45 AM	Kaylon Higgenbotham, Ben Kennedy, Thomas Walter	Shake and wake: investigating how earthquakes trigger volcanic activity by shaking bubbles in shear thinning fluids as an analogue for magma chambers during earthquakes
PE51C-6	11:45 AM - 12:00 PM	Haley Cabaniss, Patricia Gregg, Eric Grosfils	Tectonic triggering of large caldera eruptions in the Taupo Volcanic Zone
PE51C-7	12:00 PM - 12:15 PM	Daniel Basualto, Pablo Gonzalez, Loreto Cordova, Jonathan Quijada, Gabriela Velasquez, Diego Lobos	Megathrust and Volcanic Reactivations, Evidence, Correlations and Eruptions in the Chilean Volcanic Belt
PE51C-8 (invited)	12:15 PM - 12:30 PM	Matthew Pritchard, Francisco Delgado, Philipp Ruprecht, Paul Lundgren, Kyle Anderson, Luis Lara, Daniel Bertin, Julia Kubanek	Precursors and evolution of the 2011-2012 rhyodacite eruption of Cordon Caulle, southern Chile

VO51A IV.4 Volcanic plumes and clouds: from injection to dispersion II**Friday August 18, 2017. 10:30 AM - 12:30 PM Room A106**

Abstract Number	Time	Authors	Title
VO51A-1 (invited)	10:30 AM - 11:00 AM	Matteo Cerminara	Comparing and understanding volcanic plume models: can integral approaches reproduce 3D simulations?
VO51A-2	11:00 AM - 11:15 AM	Benjamin Devenish	A co-flowing two-plume model of a volcanic eruption column
VO51A-3	11:15 AM - 11:30 AM	David Jessop, Josef Dufek, Mark Jellinek, Olivier Roche, Johan Gilchrist	Particle-plume coupling and vent-shape effects on volcanic plume stability
VO51A-4 (invited)	11:30 AM - 12:00 PM	Antonio Costa, Giovanni Macedonio	Modelling particle charge and electrostatic field effects on volcanic ash aggregation
VO51A-5	12:00 PM - 12:15 PM	Matthieu Poret, Antonio Costa, Arnau Folch, Alex Marti	Modelling tephra dispersal and ash aggregation: application to the 26 April 1979 eruption of La Soufriere St. Vincent
VO51A-6	12:15 PM - 12:30 PM	Frances Beckett, Arve Kylling, Sibylle von Lowis, Claire Witham	Modelling and Observing Ash Plumes from Remobilisation Events

VH51A: V.1 Lava flow dynamics and hazard assessment II**Friday August 18, 2017. 10:30 AM - 12:30 PM Room A105**

Abstract Number	Time	Authors	Title
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VH51A-1 (invited)	10:30 AM - 10:45 AM	Scott Rowland, Andrew Harris, Nicolas Villeneuve, Thorvaldur Thordarson	THERE IS ALWAYS SOMETHING TO LEARN FROM THOSE INTERESTING BUT PUZZLING LAVA-FLOW OUTCROPS THAT EHTRYBODY COMES ACROSS EHTRY NOW AND THEN
VH51A-2	10:45 AM - 11:00 AM	Gro Pedersen, A. Höskuldsson, T. Askew, T. Thordarson, I. Jónsdóttir, M. Riisuuus, B. Óskarsson, E. Magnússon, M. Gudmundsson, F. Sigmundsson, V. Drouin, C. Gallagher, R. Askew, J. Guðnason, W. Moreland, P. Nikkola, H. Reynolds, J. Schmith, S. Dumont	Lava field evolution and emplacement dynamics of the 2014-2015 basaltic fissure eruption at Holuhraun, Iceland
VH51A-3	11:00 AM - 11:15 AM	Isla Catherine Simmons, Melissa Anne Pfeffer, Eliza Shona Calder, Bo Galle, Santiago Arellano, Diego Coppola, Sara Barsotti	Extended SO ₂ outgassing from the 2014-2015 Holuhraun lava field, Iceland
VH51A-4	12:00 PM - 12:15 PM	Yannick Le Moigne, Glyn Williams-Jones, Karim Kelfoun, Philippe Labazuy, Kelly Russell, Nathalie Vigouroux-Caillibot	Investigating and modeling Canada's deadliest volcanic eruption
VH51A-5	11:30 AM - 11:45 AM	Hannah Dietterich, Drew Downs, Mark Stelten	Reconstructing lava flow emplacement histories with implications for hazard assessment within the Harrat Rahat volcanic field, Saudi Arabia
VH51A-6 (invited)	11:45 AM - 12:00 PM	Sophie Mossoux, Mathijs Saey, Sam Poppe, Stefania Bartolini, Frank Canters, Matthieu Kervyn	Q-LavHA, a plugin to simulate lava flows: functioning and applications
VH51A-7	11:15 AM - 11:30 AM	Ed Llewellyn, Jen Truby, Tim Orr, Hugh Tuffen, Bruce Houghton	Does bubble suspension rheology control runout-length of lava flows?
VH51A-8	12:15 PM - 12:30 PM	Robert Wright, Estelle Bonny	An assessment of three satellite-based methods to retrieve lava discharge rate

VH51B: V.5 Evaluating hazards by mapping and interpreting volcanic deposits II**Friday August 18, 2017. 10:30 AM - 12:30 PM Room B110-112**

Abstract Number	Time	Authors	Title
VH51B-1 (invited)	10:30 AM - 11:00 AM	Roberto Sulpizio	On the use of field data for defining eruptive scenarios and drawing of hazard maps
VH51B-2	11:00 AM - 11:15 AM	John Ewert	A history of volcano hazard maps
VH51B-3	11:15 AM - 11:30 AM	Jan Lindsay, Eliza Calder, Mary Anne Thompson, John Ewert, Graham Leonard	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
VH51B-4	11:30 AM - 11:45 AM	Charlotte Vye-Brown, Sue Loughlin, Julia Crummy, Murray Lark, Richard Brown, Sam Engwell, Katie Preece, Jenni Barclay, Kay Smith	Development of a volcanic hazard assessment methodology for Ascension Island, South Atlantic
VH51B-5	11:45 AM - 12:00 PM	Long Li, Longqian Chen, Carmen Solana, Frank Canters, Matthieu Kervyn	Automated discrimination and mapping of lava flows through random forest classification of satellite imagery
VH51B-6	12:00 PM - 12:15 PM	Christopher Harpel, Kus hendratno, James Stimac, Sofyan Primulyana	The Orange Tuff: a late Pleistocene tephra-fall deposit emplaced by a silicic HT15 eruption in West Java, Indonesia and its hazard implications
VH51B-7	12:15 PM - 12:30 PM	Rebecca Fitzgerald, Ben Kennedy, Thomas Wilson, Graham Leonard, Amy Jeffrey, Ame McSporran	Ballistic hazard and vulnerability quantification using a pneumatic cannon

VS51A: VII.6 Successful information coordination among scientists, civil protection groups, and local officials during a crisis II**Friday August 18, 2017. 10:30 AM - 12:30 PM Room B116**

Abstract Number	Time	Authors	Title
VS51A-1 (invited)	10:30 AM - 10:45 AM	Marta Lucia Calvache, Adriana Agudelo	From the tragedy of Nevado del Ruiz eruption to the Nevado del Huila disaster risk reduction
VS51A-2 (invited)	10:45 AM - 11:00 AM	Richard Smith	Developing a mechanism for successful, multiagency, volcano science advice and research coordination: facilitation across the boundaries of disaster risk research, policy, and practice in New Zealand
VS51A-3 (invited)	11:00 AM - 11:15 AM	Peter Frenzen	Land Use and Response Coordination: Lessons from the 2004 Eruption of Mount St. Helens
VS51A-4	11:15 AM - 11:30 AM	Chris Gregg, Ashleigh Reeves, Michael Lindell, Frank Trusdell, Bruce Houghton, Andrew Joyner	Resident stakeholder perceptions of lava flow hazard diversion strategies and protective measures for infrastructure and commercial and private property on Kilauea and Mauna Loa volcanoes, Hawai'i
VS51A-5	11:30 AM - 11:45 AM	Sabina Michnowicz, Christopher Kilburn	Developing trust in hazard warnings and responses at long-quiet volcanoes
VS51A-6	11:45 AM - 12:00 PM	Paolo Papale	Communication of volcanic hazards in urbanized areas, and the roles of scientists and decision makers
VS51A-7	12:00 PM - 12:30 PM		Panel Discussion

Keynote Talk Friday August 18, 2017 1:30 - 2:15 OCC Oregon Ballroom 201-203

1:00-1:45	Patricia Mothes	Lessons Learned from Six Volcano Crises in Ecuador by the IGEPN
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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**

Abstract Number	Time	Authors	Title
ME52A-1 (invited)	2:00 PM - 2:15 PM	Patrick Allard	Terrestrial lava lakes: remarkable windows into inner magma dynamics and degassing at open-conduit volcanoes
ME52A-2 (invited)	2:15 PM - 2:30 PM	Rosaly Lopes, Jani Radebaugh, Robert Howell, Elizabeth Turtle, Ralph Lorenz, Julie Rathbun, Tracy Gregg	Extraterrestrial Lava Lakes
ME52A-3	2:30 PM - 2:45 PM	Talfan Bernie, Ashley Gerard Davies, Gezahgen Yirgu, Chris Moore, Simon Carn, David Pieri, Clive Oppenheimer, Juliet Biggs, Tim Wright	The 2017 eruption of Erta 'Ale volcano, northern Afar, Ethiopia

ME52A-4	2:45 PM - 3:00 PM	Benoît Smets, Nicolas d'Oreye, Matthieu Kervyn, François Kervyn	The Nyiragongo lava lake (D.R. Congo): current state of knowledge and perspectives
ME52A-5	3:00 PM - 3:15 PM	Matthew Patrick, Tim Orr, Don Swanson	Is Halema'uma'u's lava lake a window into the deeper magmatic system?
ME52A-6	3:15 PM - 3:30 PM	Einat Lev, Camera Ford, Matt Patrick, Katharina Unglert	Cooling and degassing of lava lakes -- global and local perspectives
ME52A-7	3:30 PM - 3:45 PM	Holly Rotman, Tehnuka Ilanko, Clive Oppenheimer, Philip Kyle	Seismic and gas geochemical observations during an episode of increased explosive activity at Erebus volcano, Antarctica
ME52A-8	3:45 PM - 4:00 PM	Clive Oppenheimer	Dynamics of magmatic degassing observed at lava lakes

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

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

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

Abstract Number	Time	Authors	Title
ME52C-1	2:00 PM - 2:15 PM	Lydia Harmon, Guilherme Gualda, Darren Gravley, Chad Deering	Deciphering Whakamaru group storage conditions and magma mingling/co-eruptive magma bodies via glass geochemistry and rhyolite-MELTS geothermobarometry
ME52C-2	2:15 PM - 2:30 PM	Genji Saito, Isoji Miyagi, Yoshihisa Kawanabe	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
ME52C-3	2:30 PM - 2:45 PM	Emily First, Julia Hammer, Philipp Ruprecht	Experimental constraints on dacite magma storage beneath Volcán Quizapu, Chile
ME52C-4	2:45 PM - 3:00 PM	Marinel Kovacs, Alexandrina Fulop, Ioan Seghedi, Zoltan Pecskey, Masatsugu Yamamoto, Maria Jurje	P-T evolution of the Miocene magmatic system from Gutai Volcanic Zone (Eastern Carpathians, Romania)
ME52C-5	3:00 PM - 3:15 PM	James Jolles, Rebecca Lange	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
ME52C-6	3:15 PM - 3:30 PM	Kenneth Befus, Miguel Cisneros	Bringing Raman thermobarometry to the people
ME52C-7	3:30 PM - 3:45 PM	Dawid Szymanowski, Jörn-Frederik Wotzlaw, Ben S. Ellis, Olivier Bachmann, Marcel Guillong, Albrecht von Quadt	Zircon–titanite constraints on pre-eruptive storage conditions in large magma reservoirs
ME52C-8	3:45 PM - 4:00 PM	Andreas Kluegel, Markus Schmid, Simon Day, Bruno Faria	Magma plumbing during the 2014-2015 eruption of Fogo (Cape Verde Islands)

PE52A: 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

Abstract Number	Time	Authors	Title
PE52A-1 (invited)	2:00 PM - 2:15 PM	Eric Breard, Gert Lube, Joe Dufek, Ermanno Brosch, Tomaso Esposti Ongaro, Jim Jones	Constructing a benchmark for pyroclastic density currents
PE52A-2	2:15 PM - 2:30 PM	Elodie Macorps, Sylvain J. Charbonnier	Using field investigations as proxies for interpreting the dynamics of concentrated Pyroclastic Density Currents
PE52A-3	2:30 PM - 2:45 PM	Janine Krippner, Alexander Belousov, Marina Belousova, Michael Ramsey	Correlating dome collapse events with block and ash flow deposits at Shiveluch volcano, Kamchatka
PE52A-4	2:45 PM - 3:00 PM	Rebecca Williams, Michael Branney, 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
PE52A-5	3:00 PM - 3:15 PM	Nicholas Pollock, Brittany Brand, Olivier Roche, Pete Rowley, Damiano Sarocchi, Roberto Sulpizio	Using shear-induced, wave-like depositional features to infer flow conditions of pyroclastic density currents at Mount St Helens, Washington, USA
PE52A-6	3:15 PM - 3:30 PM	Guilhem Douillet, Mélanie Bouysson, Lukas Gegg	Overtaken strata in deposits of dilute pyroclastic density currents, field and analogue data
PE52A-7	3:30 PM - 3:45 PM	Shinji Takarada, Hideo Hoshizumi	Depositional features and emplacement mechanism of pyroclastic density currents at Unzen, Hokkaido Komagatake and Aso volcanoes, Japan
PE52A-8 (invited)	3:45 PM - 4:00 PM	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

VO52A: IV.4 Volcanic plumes and clouds: from injection to dispersion III**Friday August 18, 2017. 2:00 PM - 4:00 PM Room B110-112**

Abstract Number	Time	Authors	Title
VO52A-1	2:00 PM - 2:15 PM	Pórður Arason, Sara Barsotti, Mattia de' Michieli 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 (invited)	2:15 PM - 2:45 PM	Sonja Behnke, Ronald Thomas, Harald Edens, Alexa Van Eaton, Stephen McNutt, Cassandra Smith, Corrado Cimorelli	Volcanic Lightning Observations and Applications: Recent Progress and Future Directions
VO52A-3	2:45 PM - 3:00 PM	Damien Gaudin, Corrado Cimorelli, 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	3:00 PM - 3:15 PM	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	3:15 PM - 3:30 PM	David Schneider, Michael Pavolonis, 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	3:30 PM - 3:45 PM	Michael Fromm	On Being Prepared for the Next Big Volcanic Eruption via Syngistic Satellite Remote Sensing
VO52A-7	3:45 PM - 4:00 PM	Franck Donnadieu, Valentin Freret-Logeril, Julien Delanoë, Jean-Paul Vinson, Thierry lachimy, Frédéric Peyrin, Claude Hervier, Christophe Caudoux	The mass load of Strombolian ash plumes: first retrievals from a mm-wave radar

VH52A: V.4 Just add water: hazards variation in lava flows, steam-driven and hydromagmatic explosive eruptions II**Friday August 18, 2017. 2:00 PM - 4:00 PM Room A105**

Abstract Number	Time	Authors	Title
VH52A-1 (invited)	2:00 PM - 2:15 PM	Shaul Hurwitz, Steven E. Ingebritsen, Mark E. Reid, Jessica L. Ball, Joshua M. Taron, Carol A. Finn, Paul A. Bedrosian	Groundwater in stratovolcanoes of the Cascade Range, USA – what we do and do not know
VH52A-2	2:15 PM - 2:30 PM	Christopher Waythomas, David Schneider, Kim Van Eaton, William Burton, Cheryl Cameron, Peter Cervelli, Michelle Coombs, Pavel Izbekov, Jessica Larsen, Larry Mastin, Robert McGimsey, Janet Schaefer, Alexa Van Eaton, Kristi 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	2:30 PM - 2:45 PM	Geoff 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	2:45 PM - 3:00 PM	Bettina Scheu, Cristian Montanaro, Donald B. Dingwell	Phreatic & hydrothermal eruptions: Insights into energy budget and eruption dynamics based on field and laboratory studies
VH52A-5	3:00 PM - 3:15 PM	Joseph Walder	Energetics of Surtseyan eruptions: insights from the fluid dynamics and phenomenology of underwater chemical explosions
VH52A-6	3:15 PM - 3:30 PM	Greg Valentine, Alison Graettinger, James White, Pierre-Simon Ross	Updates to concepts on phreatomagmatic maar-diatremes and their pyroclastic deposits
VH52A-7 (invited)	3:30 PM - 3:45 PM	Christopher W. Hamilton	Explosive Lava–Water Interactions: Tephrostratigraphy and Eruption Processes
VH52A-8	3:45 PM - 4:00 PM	Frances Boreham, Katharine Cashman, Alison Rust	Linking Inflated Flow Margins, Lava-Water Interactions and Rootless Cone Formation

VH52B: V.5 Evaluating hazards by mapping and interpreting volcanic deposits III**Friday August 18, 2017. 2:00 PM - 4:00 PM Room B117-119**

Abstract Number	Time	Authors	Title
VH52B-1 (invited)	2:00 PM - 2:30 PM	Judy Fierstein	Multi-faceted tephra studies and mapping as complementary tools in establishing eruptive histories of explosive volcanic centers
VH52B-2	2:30 PM - 2:45 PM	Kristi Wallace, Leslie Hayden, Janet Schaefer, Katherine Mulliken, Cheryl Cameron, Christina Neal	Tephra marker horizons of the Aleutian Arc – A tephrochronology of largest eruptions in Alaska
VH52B-3	2:45 PM - 3:00 PM	Victoria Smith, Madeleine Humphreys, Michael Stock, Roberto Isaia, Takehiko Suzuki, Danielle McLean, Paul Albert	An apatite for tephrochronology
VH52B-4	3:00 PM - 3:15 PM	Maria Luisa Tejada, Sandra Catane, Catherine Lit, Allan Mandanas, Hannah Mirabueno, Renato Solidum, Maria Carmencita Arpa, Alyssa Peleo-Alampay, Allan Fernando	Tracing large volcanic eruptions from marine tephra layers in Philippine marginal basins
VH52B-5	3:15 PM - 3:30 PM	Christina Bonanati, Heidi Wehrmann, Kaj Hoernle, Steffen Kutterolf, Maxim Portnyagin, Maryam Mirzaloo, Dirk Nürnberg, Karen Strehlow	A 68,000 year tephra record in marine sediment cores offshore southeast Iceland
VH52B-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
VH52B-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.

VS52A: 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**

Abstract Number	Time	Authors	Title
VS52A-1	2:00 PM - 2:15 PM	Nicolas Fournier, Bradley J Scott	Volcanic Alert Bulletins 2.0: integrated volcano communication in New Zealand

VS52A-2	2:15 PM - 2:30 PM	Wendy Stovall, Elizabeth Westby	Keeping It Real with @USGSVolcanoes
VS52A-3	2:30 PM - 2:45 PM	Anna Hicks, Teresa Armijos, Jenni Barclay, Jonathan Stone, Richard Robertson, Gloria Patricia Cortes	Risk Communication Films: Process, product and potential for improving preparedness & adaptation
VS52A-4	2:45 PM - 3:00 PM	Sarah Brown, Steve Sparks, Anna Stewart, Jenni Barclay, Carolyn Driedger, John Pallister, Elizabeth Westby, Gill Jolly, Julian Thomson, Katcho Karume, Mony Murongani, Jean-Christophe Komorowski, Iain Stewart, Patricia Mothes, Richie Robertson, Stacey Selman-Edwards, Gokhan Atici, Bilge Karaman, Micol Todesco, Daniele Andronico, Augusto Neri, Esline Garaebiti	VolFilm: educational films to increase resilience to risks from volcanic hazards
VS52A-5	3:00 PM - 3:15 PM	Joseph Bard	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
VS52A-6	3:15 PM - 3:30 PM	David Pyle	Curating volcanoes: sharing stories to build engagement
VS52A-7	3:30 PM - 3:45 PM	Brittany Brand, Michael Lindell, Alexa Dietrich	Promoting household preparedness to natural hazards using active-based learning
VS52A-8	3:45 PM - 4:00 PM	Rachel Teasdale, Kaatje van der Hoeven Kraft, Michael Poland	Use of real data in the classroom: Monitoring Mount St. Helens 2004 dome growth

VS52B: VII.4 Integrated volcanic risk assessment II**Friday August 18, 2017. 2:00 PM - 4:00 PM Room B116**

Abstract Number	Time	Authors	Title
VS52B-1 (invited)	2:00 PM - 2:15 PM	Thomas Wilson, Carol Stewart, Natalia Deligne, Graham Leonard, Susanna Jenkins, Joshua Hayes, Daniel Blake, Alec Wild	Assessing Volcanic Impacts to Society
VS52B-2	2:15 PM - 2:30 PM	Paul Taylor	The 1946 Eruption of Niuafu'ou Island, Kingdom of Tonga: Was an Evacuation Really Warranted?
VS52B-3	2:30 PM - 2:45 PM	Emma Singh, Tetsuya Okada, Christina Magill	Exposure of roads to volcanic ash from a future eruption from Mount Fuji, Japan: Implications for evacuation
VS52B-4 (invited)	2:45 PM - 3:00 PM	Sébastien Biass, Andrea Todde, Raffaello Cioni, Marco Pistolesi, Nobuo Geshi, Costanza Bonadonna	Potential impacts of tephra fallout from a Plinian eruption at Sakurajima volcano, Japan
VS52B-5	3:00 PM - 3:15 PM	Caroline Michellier, Florian Barette, Sylvain Kulimushi Matabaro, Innocent Kadekere, Marcellin Bahati Bifuko, Delphin Ciza Assani, Fanny Hage, Eléonore Wolff, Matthieu Kervyn	Assessing lava flow risk at Nyiragongo volcano, DR Congo. Part 1: Vulnerability of population and assets in Goma
VS52B-6	3:15 PM - 3:30 PM	Josh Hayes, Thomas Wilson, Natalia Deligne, Graham Leonard	Embracing deep uncertainties to transparently develop plausible scenarios for volcanic impact and risk assessment
VS52B-7	3:30 PM - 3:45 PM	Susan Loughlin, Anna Hicks, Jenni Barclay, Roger Few, Emily Wilkinson, Richard Robertson, Patricia Mothes, Gloria Patricia Cortes	Integrating diverse datasets and applying new knowledge: the use of scenario exercises in the STREVA project
VS52B-8	3:45 PM - 4:00 PM	Flavio Dobran	HTSUVIUS PENTALOGUE: Five key objectives for developing resilience and sustainability of populations surrounding Vesuvius

Closing Ceremony**Friday August 18, 2017. 4:30 AM - 5:30 AM OCC Oregon Ballroom 201-203**

	Martin Streck, Jon Major	
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