

Session Program

Feb 11 - 12, 2020

Physics of Volcanoes 2020
Subsurface & Surface Processes

Geomatikum, H2
Bundesstraße 55, 20146 Hamburg

Tue, February 11

9:10 AM

Subsurface & Surface Processes: SSP one

Session | **Location:** Geomatikum, H2, Bundesstraße 55, 20146 Hamburg | **Convener:** Dr Thor Hansteen

9:10 – 9:28 AM

Seismological and geophysical signatures of the deep crustal magma systems of volcanic fields beneath the Eifel, Germany

Speaker

Prof. Torsten Dahm

9:28 – 9:46 AM

Advances in seismic tomographic imaging of magmatic systems

Speaker

Luca De Siena

9:46 – 10:04 AM

Imaging active magmatic systems at Oldoinyo Lengai volcano (Tanzania) via earthquake distribution and seismic scattering and absorption mapping

Speaker

Dr Miriam Christina Reiss

10:04 – 10:22 AM

Virtual Transient Electromagnetics at Stromboli Volcano, Italy

Speaker

Carolin Schneider

10:22 – 10:40 AM

Analytical and numerical optimization of gravimetric networks: case study Mount Etna, Italy

Speaker

Dr Mehdi Nikkhoo

10:40 AM

Wed, February 12

9:00 AM

Subsurface & Surface Processes: SSP two

Session | **Location:** Geomatikum, H2, Bundesstraße 55, 20146 Hamburg | **Conveners:**
Dr Corrado Cimarelli, Mr Jost v.d. Lieth

9:00 – 9:18 AM

From Yellowstone to Australia: Identifying mechanisms for generating low-δ18O silicic magmas on Earth

Speaker

Dr Juliana Troch

9:18 – 9:36 AM

The role of a pre-eruptive fluid phase for the volatile budget and atmospheric influence of large explosive eruptions in Central America

Speaker

Thor Hansteen

9:36 – 9:54 AM

Multi-spectral analyses (LIBS, Raman and VIS/NIR) of planetary analog material on volcanic deposits (Vulcano Island, Italy)

Speaker

Gianluigi Ortenzi

9:54 – 10:12 AM

Bubble nucleation and growth in H₂O-CO₂ bearing, ultrapotassic melts

Speaker

Maximilian Schanofski

10:12 – 10:30 AM

MORB Rheology: Experimental Insights on the Mid-Atlantic Ridge

Speaker

Arianna Soldati

10:30 AM

11:30 AM

Subsurface & Surface Processes: SSP three

Session | **Location:** Geomatikum, H2, Bundesstraße 55, 20146 Hamburg | **Conveners:**
Jörg Hasenclever, Prof. Boris J.P. Kaus

11:30 – 11:48 AM

Numerical investigation of multi-phase flow in saline submarine hydrothermal systems

Speaker

Jörg Hasenclever

11:48 AM – 12:06 PM

3D Geodynamic Models of the Present-Day Altiplano-Puna Magmatic System

Speaker

Arne Spang

12:06 - 12:24 PM

CFD modeling of ascending strombolian gas slugs through a constricted volcanic conduit considering a non-linear rheology

Speaker

Mr Nils Steinau

12:24 - 12:42 PM

Critical fluid volumes to start self-sustaining fracture ascent

Speaker

Mr Timothy Davis

12:42 - 1:00 PM

Forecasting vent location by probabilistic inversion of volcanic edifice stresses

Speaker

Dr Eleonora Rivalta

1:00 PM