



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN

CAS^{LMU} CENTER FOR ADVANCED STUDIES
RESEARCH GROUPS



Volcanic Ash in the Earth System: Generation, Dispersal, Consequences

9 and 10 May 2019

Center for Advanced Studies, LMU Munich

International Workshop organized by Donald Bruce Dingwell and Ulrich Kueppers in the context of the CAS Research Group 2018/19: "Magma to Tephra: Ash in the Earth System"

Wednesday, 8 May 2019

18:30 Icebreaker and Dinner (for invited speakers only)

Thursday, 9 May 2019

- 9:00 – 09:10 Introduction
- 9:10 – 09:55 **Jacopo Taddeucci** (Istituto Nazionale di Geofisica e Vulcanologia, Rom)
The birth and rebirth of volcanic ash
- 9:55 – 10:40 **Alejandra Arciniega** (UNAM)
Deciphering volcanic seismic signals
- 10:40 – 11:10 Coffee Break
- 11:10 – 11:55 **Adrian Hornby** (LMU)
The changing faces of volcanic ash
- 11:55 - 12:40 **Mike James** (Lancaster University)
Evidence for and processes during ash aggregation
- 12:40 - 14:00 Lunch
- 14:00 - 14:45 **Ana Casas** (LMU)
High temperature SO₂ uptake by rhyolitic glasses
- 14:45 - 15:30 **Corrado Cimarelli** (LMU)
Volcanic plume electrification: recent advances and future perspectives
- 15:30 - 16:00 Coffee Break

- 16:00 - 16:45 **Nsikanabasi Umo** (KIT)
Heterogeneous ice nucleation by volcanic ash particles in mixed-phase cloud conditions
- 16:45 - 17:30 **Antonio Costa** (Istituto Nazionale di Geofisica e Vulcanologia, Bologna)
Recent advances in modelling volcanic plume dispersal
- 17:30 - 18:00 Reception
- 18:00 - 19:00 Keynote Lecture by **Bruce Houghton** (University of Hawai'i)
The 2018 eruptions at Kilauea volcano: the physical and social perspectives and some longer term implications
- 19:00 Dinner (for invited Speakers only or after prior registration)

Friday, 10 May 2019

- 9:00 - 9:45 **Karen Holmberg** (NYU)
Responding to unexpected volcanic events: The ongoing resettlement at Chaiten, Chile
- 9:45 - 10:30 **Wenjia Song** (LMU)
Volcanic ash and aviation safety
- 10:30 - 11:00 Coffee Break
- 11:00-11:45 **Bärbel Langmann** (Universität Hamburg)
Volcanic ash: From environmental impacts shortly after a volcanic eruption to long-term climate impacts"
- 11:45 - 12:30 **Fabian Wadsworth** (Durham University)
The unexpected interactions between volcanic gas, ash, and Earth's climate
- 12:30 - 14:00 Lunch
- 14:00 Optional visit to the laboratories

Venue:

Center for Advanced Studies
Seestraße 13
80802 München

