

Programme 1st VERTIGO summer school on volcanic processes

09 – 13/03/15

Hotel Villalba, Vilaflor, Tenerife (Canary Islands, E)

Monday, 09 March

Field day I

Departure 8.30, return approx. 18.30

Overview Tenerife, Caldera, (un)welded ignimbrites, fall deposits, Teide climb (cable car, from 3555 to 3719 m walking!)

19.30 *Dinner*

21.00 Ana Judith Vidal Gonzalez (Servicio de Protección Civil y Atención de Emergencias)
Volcanic Risk Management in Canary Islands

Tuesday, 10 March

Field day II

Departure 8.30, return approx. 18.30

PDC deposits, longitudinal and lateral variations. Where do things not change?

19.30 *Dinner*

21.00 VERTIGO ESRs and guests
short poster presentations (Posters will remain on display all week)

Wednesday, 11 March

Science day I

08.30 Richard Brown (UDUR), Mike Branney, Pablo Davila Harris
Using deposits to infer spatial-temporal behaviour of pyroclastic density currents on Tenerife

09.30 Mike Branney (University of Leicester)
Welding and rheomorphism in pyroclastic deposits

10.30 *Coffee break*

11.00 Jon Merrison (AU), S. Alois, J. Iversen, K. Rasmussen
Wind-driven transport of ash: analogies to Aeolian transport

11.30 Bernadett Weinzierl (DLR)
Desert sand and volcanic ash: Impact on measurement strategies

12.00 Hannes Mattson (ETH Zurich)
Textural characteristics of volcanic ash produced in CO₂-rich, silica-undersaturated eruptions

13.00 *Lunch*

15.00 Ulrich Küppers & Richard Brown
Exercise on isopach data (teaching students how to take data, what to pay attention to and how to plot it)

17.00 *Coffee break*

17.30 Supervisory Board Meeting

19.30 *Dinner*

21.00 Meet and greet: meeting of ESRs with Coordinator and Administrator

Thursday, 12 March

Science day II

08.30 Stefan Amtsbühler (LH)
Impact of volcanic ash on aviation

09.00 Rory Clarkson (RR)
Volcanic ash and turbines: Which tests are legally required?

09.30 Oliver Hochrein (SCHOTT)
Properties of glasses with special focus to aluminosilicate glasses

10.30 *Coffee break*

11.00	<u>Kai Döffels</u> (RET) How to describe solid particles (Methods, image analysis, Laser diffraction, Sieving etc)
11.30	<u>Marie-Hélène Vidal-Setif</u> (ONERA), C. Rio, O. Lavigne CMAS degradation of EB-PVD thermal barrier coatings: from characterization of ex service turbine blades to development of CMAS resistant ceramic compositions.
12.15	<u>Spyros Diplas</u> (SINT) Interaction of Ash particles with hot surfaces
13.00	<i>Lunch</i>
15.00	<u>Adam Durant</u> (UIO) Gas and aerosol emissions from a persistent mud volcano in Java, Indonesia
15.30	<u>Antonio Costa</u> (INGV) Modelling the distribution of fall deposits: How to constrain ambient conditions
16.15	<u>Jacopo Taddeucci</u> (INGV) Fine analysis of fines: a closer look at volcanic ash particles
17.00	<i>Coffee break</i>
17.30	<u>Bernadett Weinzierl</u> Good practice of presentations
18.30	<u>Valeria Cigala & Sebastian Müller</u> Lessons learned from a 2-days course on scientific talks
19.30	<i>Dinner</i>
21.00	Poster evaluation

Friday, 13 March

Field day III

Departure 8.30, return approx. 14.30

Dry eruptions at the coast and wet eruptions far from the coast. Related deposits and ash aggregation.

15.00 Wrap-up, final discussion, outlook

16.00 walk to local bodega, wine tasting

19.30 *Summer school's final dinner (at bodega)*