

MeMoVolc Workshop on Mass Eruption Rates

The forthcoming workshop on Mass Eruption Rates will be held at the **Lecture Hall 132, Askja building, University of Iceland (UI)**, Reykjavik (Iceland) from the **3rd of May to the 5th of May 2016**.

Some people will be giving short presentations (as scheduled in the following agenda) but **everybody is expected to participate in the discussion sessions**. In addition everybody is **kindly invited to bring posters**, as there will be a designated poster session. We will contact some of those who are not giving oral presentation to ask them to lead discussion groups.

Two main **social events** have been planned for those attending the meeting:

- On the 2nd of May there will be the Ice breaker for those already in Iceland;
- On the 4th of May there will be a short busride out of town with some minor outdoor activity and the workshop dinner

AGENDA

02/05

18:30 Ice breaker at UI with buffet for dinner

03/05

		MER – Present state of knowledge I	Conv: Magnús T. Gudmundsson
	08:45	Opening address	Magnús T. Gudmundsson
#1	09:00	MER from plume models (1D)	Mark Woodhouse
#2	09:20	MER from plume models (3D)	Tomaso Esposti Ongaro
#3	09:40	MER from satellite observations	Dave Schneider
#4	10:00	MER from ground observations	Mauro Coltelli
Coffee break 10:20-10:50			
		MER – Present state of knowledge II	Conv: Augusto Neri
#5	10:50	MER – lessons from analog modelling	Piero Dellino
#6	11:10	MER – problems and shortcomings of present methods	Larry Mastin
DISCUSSION 11:30-12:30			
LUNCH 12:30 - 13:30			
		MER – Observation techniques	Conv: Sara Barsotti
#7	13:30	Doppler radar	Lea Scharff
#8	13:45	Infrasound	Maurizio Ripepe
#9	14:00	Videos	Jacopo Taddeucci
#10	14:15	Electric signals	Bernd Zimanowski
#11	14:30	Gas monitoring	Melissa Pfeffer
Coffee break 14:45 – 15:15			
#12	15:15	Thermal remote sensing and MER in explosive eruptions	Andy Harris
#13	15:30	Satellite remote sensing and MER	Fred Prata
DISCUSSION 15:45-16:30			
POSTERS 16:30 - 18:00			

04/05

		MER – Case histories and ground truth	Conv: Magnús T. Gudmundsson
#14	08:30	Overview of mapping of tephra layers in Iceland	Guðrún Larsen
#15	08:50	Preservation of tephra layers	Bergrún Óladóttir, Tinna Jónsdóttir
#16	09:05	Modelling uncertainties in the reconstruction of erupted mass	Mattia de' Michieli Vitturi, Samantha Engwell
#17	09:20	Reconstruction of eruption source parameters from tephra studies – case history	Thor Thordarson
DISCUSSION 09:35-10:35			
Coffee break 10:35-10:50			

		MER – Near real time estimates	Conv: Sara Barsotti
#18	10:50	Multi-parameter measurements system REFIR	Tobi Dürig
#19	11:05	How much "real time" is needed by the VAAC and MetOffice?	Frances Beckett
#20	11:20	Outlook: Future integrated approaches	Mario Montopoli
#21	11:35	Operational MER at the Icelandic Meteorological Office	Þórður Arason
DISCUSSION 11:40 - 12:30			
Lunch 12:30 - 13:30			

		Plume models – External factors and role in MER estimates	Conv: Augusto Neri
#22	13:30	Intercomparison study eruptive column models	Antonio Costa
#23	13:45	A forward and inverse modeling approach using thermal imagery	Matteo Cerminara
#24	14:00	Plume rise modelling: sensitivity analysis and umbrella cloud formation	Ben Devenish
#25	14:15	Role of wind, external water and ice - empirical findings	Magnús T. Gudmundsson
#26	14:30	Hail and its effects on ash detection by radar	Hermann Arngrímsson
Coffee break 14:45-15:15			

Discussion session 1: How to overcome the shortcomings –Strategies for complementary application of methods (3-4 groups)

DISCUSSION 15:15-16:15

Trip to Hveragerði by bus (swimming pool and dinner) 16:30 - 22:00

05/05

Discussion session 2: How to overcome the shortcomings –Strategies for complementary application of methods (3-4 groups)

DISCUSSION 09:00-10:30

Coffee break 10:30-11:00

DISCUSSION 11:00-11:30

Summary session: reporting from groups 11:30-12:30

Conv: Augusto Neri

Lunch 12:30 - 13:30

14:00 **Visit of the IMO**

Conv: Sara Barsotti

Coffee break 15:30-16:00

Concluding session 16:00 - 17:00

Conv: Magnús T. Gudmundsson

Participants from outside Iceland:

1	Alexa van Eaton	USGS	avaneaton@usgs.gov
2	Andrew JL Harris	Clermont-Ferrand	A.Harris@opgc.univ-bpclermont.fr
3	Antonio Costa	INGV	Antonio.Costa@ingv.it
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18	Mario Montopoli	Nat.Res.Council, It.	m.montopoli@isac.cnr.it
19	Mark Woodhouse	Univ. Bristol	mark.woodhouse@bristol.ac.uk
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23	Mauro Coltelli	INGV	mauro.coltelli@ingv.it
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27	Tomaso Esposti Ongaro	INGV	tomaso.espostiongaro@ingv.it
28	Wim Degruyter	ETH	wim.degruyter@erdw.ethz.ch

Iceland participants:

29	Bergrún A Óladóttir	UI	bergrun@hi.is
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35	Magnús T Guðmundsson	UI	mtg@hi.is
36	Melissa Pfeffer	IMO	melissa@vedur.is
37	Sara Barsotti	IMO	sara@vedur.is
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39	Tobias Dürig	UI	tobi@hi.is
40	Þorvaldur Þórðarson	UI	thorvth@hi.is
41	William Michael Moreland	UI	wmm2@hi.is
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43	Þórður Arason	IMO	arason@vedur.is

MeMoVolc Workshop on MER – Important practical information

2-5 May 2016

For transport to and from airport

Buy a **return** ticket with Reykjavík Excursions Flybus. You should buy a ticket to Hostel B47 and they will take you there with a change of bus at the BSI bus terminal. For refund, get a receipt.

<https://www.re.is/flybus/>

Hnykkja á því að nota RE F til að lenda ekki á röngum stað

Transport during meeting

It is about 10-15 minutes walk from the B47 Hostel to Askja, where the meeting takes place, and similar to Hornið for Tuesday's dinner. Both trips take longer by bus. We therefore do not arrange transport for these trips and assume you will walk. A bus will take us to IMO and back on Thursday.

Accommodation

Hostel B47

<http://www.hostelb47.is/>

Conference room

Meeting will be held in Askja, the Natural Science building. Lecture Room 132, ground floor. Posters will be on the walls in front of the lecture room.

Internet access

At Askja a conference wifi will be installed and there is also edu roam.

Lunch

Will be in Háma, the University Canteen across the street. We have a reserved area for the group.

Coffee

will be in Askja, 3rd floor. Meeting room in the western end.

Monday evening Icebreaker at 18:30

will be in Askja, 3rd floor. Meeting room in the western end
A light meal with drinks.

Tuesday dinner

Hornið Restaurant

Pasta and pizza Buffet

Wednesday evening in Hveragerði

The conference dinner will be in a village about 40 km east of Reykjavík 16:30-22:30 – a bus trip

There will be about 1.5-2 hours of leisure before dinner.

We plan to go swimming in a geothermally heated outdoor pool with hot pots (much nicer than the Blue Lagoon and less crowded)

Bring swimming costume – you can borrow your towel at the hostel