



Volcanic and Magmatic Studies Group

June 2017 Newsletter (No. 35)

Welcome to the June VMSG newsletter!

Dear VMSG members, whether you are readying yourself for summer fieldwork, flat out in the lab, or taking a well-earned breather now teaching is finished, we hope this quarterly update from the VMSG finds you well and *hopefully* beginning to see some summer weather! Within the June newsletter we have a range of updates and content including details on the 2018 VMSG conference being hosted by Leeds, upcoming courses, exciting new publications, photo links for the 2017 Liverpool meeting and the announcement of a VMSG fieldtrip to the Island of Mull.

VMSG Conference 2018 - Leeds

The School of Earth and Environment at the University of Leeds will host the 54th annual VMSG conference from the 3rd - 5th January, 2018. The meeting will be held at the stunning City Museum on Millennium Square in Leeds city centre (www.leedsmuseum.co.uk), see below.

Details from the organisers: Sessions will be run over 2½ days with oral presentations held in the spectacular circular Brodrick Hall with dedicated poster sessions on the lower level.

Contributions to the scientific programme from final-year PhD students and early career researchers are particularly encouraged.

Registration will include full access to the scientific programme, morning and afternoon teas, lunches, the Meet-and-Greet Reception, the Ice-breaker function in the Life on Earth gallery, and the Conference Dinner and Party.

The local organising committee are developing a multi-disciplinary scientific programme that showcases the latest advances in volcanology in the UK and overseas. Post-meeting workshops aimed at graduate students and early career researchers are being offered on diffusion modelling in crystal systems, volcano seismology, and InSAR: theory, practice and applications.

Key dates:

Registration and abstract submission opens – **28th August 2017**

Early Bird registration closes – **13th October 2017**

Abstract submission deadline – **31st October 2017**

Registration closes – **13th November 2017**



UNIVERSITY OF LEEDS



Leeds City
Museum

Announcement of Upcoming VMSG fieldtrip to the Island of Mull – 4th to 9th September 2017

The VMSG committee is pleased to announce registration will soon open for the next VMSG fieldtrip! VMSG fieldtrips offer an excellent opportunity for students and academics alike to get into the field with fellow volcanic and magmatic researchers. This year's fieldtrip will take an excursion to the stunning Island of Mull in the Inner Hebrides of Scotland. Mull was originally mapped by the famous BGS survey geologist E.B. Bailey and a host of others taking over a decade and a half to complete and resulting in the publication of the seminal BGS Memoir for Mull, Lochaline and Oban in 1924.

The igneous outcrops on Mull are truly world class encompassing the full spectrum of plutonic through hypabyssal to explosive eruption deposits and including some of the best exposures of Palaeogene volcanic deposits related to the North Atlantic Igneous Province in the UK.

As part of the VMSG fieldtrip, we invite you to join us in tracing some of Bailey's footsteps and to investigate a wide range of igneous and volcanic geology including:

1. The Ross of Mull Granite, mafic enclaves and wall rock interactions.
2. Emplacement mechanisms and petrology of the Loch Scridain Sill Complex.
3. Extrusive Palaeogene volcanism; (including volcanic facies analysis, geochemical stratigraphy, lava sediment interactions and a boat trip to the mythical island of Staffa).
4. Central complex intrusions.

The fieldtrip is aimed at the broad VMSG community and should be relevant for PhD or MSc students looking for additional field training, through to early career researchers and established academics willing to contribute to knowledge sharing and discussions, or simply those looking for geo-tourism with good company!

The fieldtrip is being organised by Kate Dobson (Durham), John Millett (VBPR / Aberdeen) and Janine Kavanagh (Liverpool) from the VMSG committee.

Dates:

4-9th September 2017

Itinerary:

Mon 4th: Arrive on Mull, 'Icebreaker'
Tues 5th: Staffa boat trip and Ross of Mull granite
Wed 6th: Loch Scridain Sill Complex at Scoor
Thu 7th: Carsaig Bay and Carraig Mhór
Fri 8th: Island tour, central complex, Calgary Bay, Tobermory.
Sat 9th: Depart for home



Fingal's Cave, Staffa, Inner Hebrides, Scotland.

Cost:

Student - £300
Academic - £350

Travel:

Travel on Mull and for the duration of the trip is included in the registration price. Attendees are expected to make their own way to Mull. The trip begins at Craignure (accessed by ferry from Oban).

Getting to Mull is relatively straight forward, with good rail links from Glasgow to Oban and a regular ferry service from Oban to Craignure. Please bear in mind the costs associated with getting to Craignure are out with the trip fee. Pickups from Edinburgh and Glasgow may be arranged, please express any interest in this during your registration.

Accommodation:

Accommodation from 4th-9th September is included in the registration fee and includes a mixture of single, twin and dorm style accommodation. Catering will not be provided, however, self-catering options are available (it is a good idea to do your food shopping before getting on the ferry!).

Reservation:

To reserve a place on the trip, please email either john.millett@vbpr.no or katherine.dobson@durham.ac.uk

Deadlines:

Registration opens 14th June

Places will be filled on a first come first served basis (14 places open initially, confirmation will be given when your payment has been received)

Payment due by 31st of July

VMSG Award Nominations

The Volcanic and Magmatic Studies Group committee are now accepting nominations for the prestigious VMSG Award to be presented at VMSG annual conference in Leeds in January 2018. If you know anyone who may deserve the award this year please consider nominating them. The deadline is 23rd June 2017.

The award is bestowed annually on an individual who has made a significant contribution to our current understanding of volcanic and magmatic processes. Such a contribution will most likely be in the form of a paper or series of papers, although other forms of evidence (e.g. convening paradigm-changing workshops and conferences) will also be considered. There is no age or nationality limit and researchers at any stage of their career will be considered. The nominee should ideally be a part of the VMSG community, through participation in VMSG meetings and activities and/or interaction with other VMSG scientists. Current VMSG committee members are not eligible for nomination.

Nominations should be sent to Richard.brown3@durham.ac.uk and consist of:

- Letter of nomination, articulating how the award criteria are met, and for which contribution(s) the nominee is considered
- Curriculum Vitae
- Up to three additional letters of support

NEW AWARD: Willy Aspinall Prize

Willy Aspinall Prize for an "Outstanding paper in applied volcanology"

The award may be made annually to the lead author of an outstanding paper published (in English) within three years of the lead author being awarded a PhD. The topic of the paper should be in applied volcanology. The nomination process is outlined below.

The award will take the form of a cash prize (£400), a certificate and a contribution towards attendance at the annual VMSG meeting where the winner will be invited to present their paper.

The Prize is named in honour of Prof. Willy Aspinall who is a distinguished professor at the University of Bristol and a hazard and risk science consultant.

Nominations

Nominations can be made by any scientist (including a co-author) but not the nominee, and must be supported by a second scientist familiar with the nominee's work. The supporting scientist should not be a co-author on the publication itself.

Nominations will be received, by the Secretary of the VMSG, by a closing date of 1st June each year. The VMSG Awards Committee will consider the nominations and rank them. The Awards Committee may seek independent assessment if there is no expertise in the subject matter of the paper. This ranking will then be passed to the VMSG Executive Committee (before mid-September) for a formal decision. The VMSG committee will make a decision and inform the winner. In any particular year, the Awards Committee or Council may decide not to make an award.

Nominations should consist of a letter of nomination together with at least one letter of support along with a copy of the paper being nominated and a copy of the nominee's CV (2 pages maximum and including a list of publications). Each nomination package should be submitted in electronic form (a single pdf file) and sent to the VMSG Secretary (Dr Richard Brown: richard.brown3@durham.ac.uk).

Award criteria

The nominated paper must have been published within three years of the award of the nominee's PhD.

The Awards Committee will take into consideration the following points:

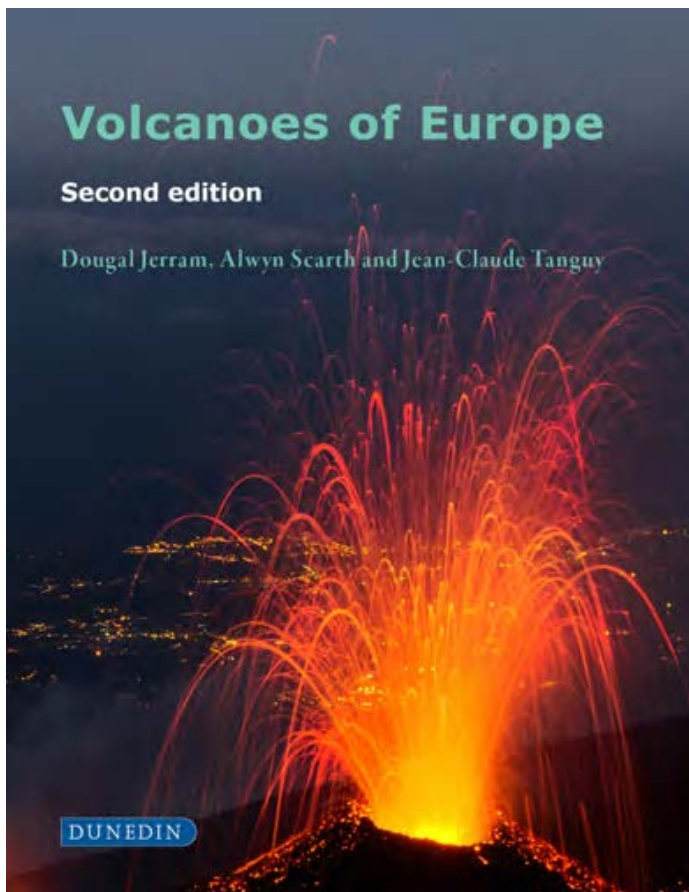
1. Novelty
2. Quality
3. Practical applicability in volcanology

With respect to the third point, nominated papers will be preferred that reflect Professor Aspinall's main interests in volcano geophysics, monitoring of volcanoes, early warning, volcanic hazards and risk assessment.

Recent Publications

Volcanoes of Europe Second Edition

This thoroughly revised and updated edition reflects modern research and is now illustrated in colour throughout. It presents the volcanoes of Europe, as they are today and tells how they have shaped our past. The volcanic systems of the Mediterranean basin, the Atlantic, and of mainland Europe are introduced and described in clear prose with a minimum of technical jargon. Some of Europe's ancient volcanic systems is also described as these have been fundamental in shaping the science of volcanology.



The origins, history and development of Europe's volcanoes is presented against a background of their environmental aspects and contemporary activity. Special attention is given to the impact of volcanoes on the people who live on or around them. The book is written for student, amateur and professional earth scientists alike. To help guide the reader, a glossary of volcanic terms is included together with a vocabulary of volcanic terms used in European languages.

Compiled and edited by Dougal A. Jerram, Alwyn Scarth and Jean-Claude Tanguy.

VMSG special offer: Order online at www.dunedinacademicpress.co.uk and use the code VMSG17 at checkout to get a **20% discount** off the price of the book. Offer closes 30 June 2017 (If ordering in the USA and Canada please go to www.isbs.com where the discount code will be honoured).

Special Issue: Advancing tephrochronology as a global dating tool: applications in volcanology, archaeology, and palaeoclimatology

The International Focus Group on Tephrochronology and Volcanism (INTAV) are pleased to announce the publication of a special issue in *Quaternary Geochronology* (vol. 40), which follows on from two successful tephra-related sessions at the International Union for Quaternary Research (INQUA) Congress in 2015. The issue contains an opening review paper and 11 new

research articles, split across two themes: "Advancing methodologies" and "Enhancing regional tephrostratigraphies". Together they provide an overview of some of the latest tephrochronological research across the disciplines of volcanology, archaeology, and palaeoclimatology.

We would like to thank all who contributed to this special issue, as authors and reviewers.

Christine Lane (University of Cambridge), **David Lowe** (University of Waikato), **Simon Blockley** (Royal Holloway University), **Takehiko Suzuki** (Tokyo Metropolitan University), **Victoria Smith** (University of Oxford)

NB. The INATV webpages just moved:

<http://www.comp.tmu.ac.jp/tephra/intavtmu/top.html>

Upcoming Training School

"Convective and volcanic clouds detection, monitoring and modelling"

Sent in by Giuseppe Salerno

Tarquina, Italy, 18-25 October, 2017

This training school is organized by researchers of the Institute of Atmospheric Sciences and Climate, National Research Council (ISAC-CNR), Istituto Nazionale di Geofisica e Vulcanologia (INGV), the Norwegian Institute for Air Research (NILU), the Abdus Salam International Centre for Theoretical Physics (ICTP) and the Oxford University.

The purpose of the School is to train students with outstanding research interest in the techniques allowing to detect, monitor, and model convective and volcanic clouds, to gain knowledge of the instruments and satellite missions (present and future) and to be able to support such kind of studies for supporting policy makers, early warning systems and aviation safety.

The extreme atmospheric event cloud detection is a high multidisciplinary and challenging topic since the same techniques and instruments can be used for meteorology, volcanic monitoring, atmospheric physics and climate purposes. Within all these fields there are still many unsolved issues making this school fundamental for creating a new generation of scientists able to use the synergy of several different instruments and techniques.

Each topic includes keynote plenary lectures with in-depth discussion. The school will consist of lectures combined with the practical application of the material covered in the lectures through introductory lab sessions and a set of research problems that will form the core of the School. Through the introductory keynotes invited lectures, the students will be introduced to all the issues and challenges of the convective and

volcanic clouds detection, monitoring and modeling, gaining an overview of the state of the art and the future development.

All the participants are expected to give a short talk or to present a poster about their own research; the selection of the talks will be done through evaluation process as in a regular conference. The students will leave the school with an increased understanding of the cutting-edge research questions and with the perspective of creating some future projects in this field also thanks to the network created during the school with the lecturers and other students.

Applications

The School is open to all the researchers, pilots and anybody interested on the topic giving priority to graduate students, PhD students and early career researchers. More info about this school and the previous editions are available at the website <http://www.CVctrainingschool.org>

Dates:

Early bird registration deadline: 15 May 2017
Registration deadline: 31 August 2017

Contacts:

info@islandofmeetings.com

SAGES VALIDATE Workshop

Sent in by Luca De Siena

SAGES (Scottish Alliance for Geoscience, Environment and Society) is an initiative funded by the Scottish Funding Council with the aim of pooling world-leading expertise in geoscience and environmental science from across Scotland's research base <http://www.sages.ac.uk/>.

Within the SAGES framework, the VALIDATE project (monitoring volcanoes' interaction with diverse earth and human environments) has received 2 years funding from SAGE and has begun a series of workshops centred around a range of themes relating to volcano monitoring and deep surface imaging.

The next workshop will take place in Edinburgh on the 16th of June. If you would like more information on the VALIDATE project or be interested to get involved with the workshops associated with the project (which will include invited speakers), please contact Luca De Siena from the University of Aberdeen (lucadesiena@abdn.ac.uk).

Joint Assembly, Liverpool – Photos online

Sent in by Jackie Kendrick

In January, The University of Liverpool hosted the first joint meeting of the Volcanic and Magmatic Study Group (VMSG), the Tectonic Study Group (TSG) and the British Geophysical

Association (BGA), showcasing the latest discoveries and advances in volcanology, tectonics and geophysics.



We're pleased to announce that photographs, courtesy of Felix von Aulock, Suraya Hilmi Hazim and Elliot Wood, can now be found on the conference website at:

<https://www.liverpool.ac.uk/tsg-vmsg-bga/photo-gallery/>



Notices

Job posting

Sent in by Donald Thomas

Position: Assistant or Associate Researcher

Hiring Units: Hawaii Institute of Geophysics and Planetology (HIGP) and Water Resources Research Center (WRRC)

Location: Manoa Campus, University of Hawai'i

Closing Date: Continuous – applications open

Tenure Track: Tenure

Full Time/Part Time: Full Time

Temporary/Permanent: Permanent

Short description: HIGP and WRRC jointly seek an Assistant/Associate Researcher (tenure track in HIGP) in hydrogeophysics specializing in geophysical techniques, including electromagnetic and magneto-telluric methods that are applicable to the study of aquifers, and subsurface flow dynamics. The successful candidate is expected to seek and obtain extramural funding in support of these areas of research, to take an active role in student advising and teaching, and to publish research results in the refereed literature.

Minimum Qualifications:

1. Earned doctorate in geophysics or closely related discipline received no later than January 2016.
2. A record of peer-reviewed publications. Ability to take the lead in generating professional reports. For appointment at Associate level, a proven record of extramural funding; for appointment at Assistant level, demonstrable potential to obtain such funding.
3. Organizational skills which can be applied to coordinate and conduct research to identify, characterize, and quantify water-related problems.
4. Skills and experience in collaborating with indigenous communities/organizations or local, state, or national agencies.
5. Demonstrated ability to collect geophysical data in the field.

<http://workatuh.hawaii.edu/Jobs/Nadvert/23755>

If you are interested in this position you can contact Don for more info: dthomas@soest.hawaii.edu

Fieldtrip Co-ordinator:

Janine Kavanagh has the role of fieldtrip co-ordinator for the VMSG committee, so if you are interested in running a VMSG fieldtrip, please contact her for further information at Janine.Kavanagh@liverpool.ac.uk

Upcoming awards of relevance to the VMSG community:

Do you know an outstanding member of the VMSG community? Please consider nominating them for awards and medals bestowed by other societies. Remember, these recognise both early career scientists as well as those well established.

PhD studentships:

We are collating all VMSG-related PhD studentships for dissemination. Please circulate to interested undergraduate students and others. If you want your PhD to be on the list, please let our student representative know. <http://www.vmsg.org.uk/students/phd.php>

VMSG Distribution List

The VMSG mailing list is managed by jisc-mail. As a list member you can subscribe to the list or change all your details yourself by subscribing to jisc-mail.

VMSG can also be found on [Twitter](#), [Facebook](#) and [LinkedIn](#).

How to join or leave the group?

Go to the group homepage at www.jiscmail.ac.uk/vmsg and choose the 'Subscribe or Unsubscribe' link from that page. You will receive a confirmation email which you will need to respond to.

Editorial

Many thanks to those who have contributed to this issue. Please forward any articles, comments or notices of events, workshops and conferences before 31st August 2017, for inclusion in the next newsletter. All previous newsletters are available for download from the website.

Dr John Millett (john.millett@abdn.ac.uk)