

November 2009

VGP Section Newsletter #38

Dear colleagues,

Here is the November issue of the Volcanology, Geochemistry and Petrology Section newsletter. Newsletter archives and much more VGP information are available at <http://vgp.agu.org>. Please send any feedback to Sarah Fagents at fagents@higp.hawaii.edu.

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(1) Changes In AGU Governance

Big changes in AGU - Please Vote!

AGU is taking several major steps in terms of reorganisation at this time. In an organisation of the type and size of AGU this is not straightforward. However, it is immensely important. We need to consider what kind of a society we need for tomorrow in order to provide a better service, closer engagement with members and strong geosciences leadership in the wider world.

As an AGU member it is *you* who has the key role to play in this organisation. Your opinions really do count and we want to hear more about them. AGU needs to be constantly fed with new ideas from diverse perspectives in order to be a dynamic and relevant organisation. Your commitment, enthusiasm and energy are also vital to the success of the society. We need to find better ways of channeling these into the organisation. Lastly, and, most importantly, the science of AGU needs to be at the very highest level and of course this reflects your research and how the society facilitates its communication.

Therefore, all of this is about you and the science you represent. If you think AGU is not doing its job or is not performing in the best way, then we do need to know about it. If you think the society does not provide sufficient opportunity for engagement with its members then we need to change it. This is a major part of the rationale underlying the Governance changes.

Voting is underway at <http://www.agu.org/governancevote>, having been extended through Friday, 13 November, 2359 ET. We are getting an excellent response but we want as many members as possible to vote and have discovered a provision in the current Bylaws that requires that voting stay open for at least 30 days. Therefore, please do take the opportunity to cast your opinion on this. It is very fast and just requires your membership number.

The changes will put in place a Board that will focus on business and fiduciary aspects and a Council that achieves greater engagement from the AGU scientific community. All Heads of Sections (Presidents and President-

elects) including Steve Sparks and I have been a part of these proposed changes and are in favour of the new structure. We are convinced they will strengthen AGU's ability to respond effectively in the future.

(2) *Giving to VGP and AGU*

Last year, members of the Volcanology, Geochemistry, and Petrology Section contributed \$39,747 to AGU's Voluntary Contribution Campaign. In 2008, due largely to member donations like these, AGU facilitated career development events attended by 600 students, hosted 75 K-12 teachers at Fall Meeting workshops, and sponsored 31 members' visits with U.S. policy makers. Additionally, voluntary contributions allowed AGU to provide travel grants to 135 deserving students to present their research for the first time at an AGU meeting. These programs are essential for AGU's relevance and vitality. I know VGP members want AGU to do more. Please join me in supporting AGU's efforts to strengthen our scientific society by making a gift to the 2010 Voluntary Contribution Campaign. Unrestricted contributions are used to support AGU's greatest needs, but you can directly support students pursuing Volcanology, Geochemistry, and Petrology by making a gift to the Bruno Martinelli Travel Fellowship. You can make your gift when you renew your AGU membership, or you can give today at:

https://www.agu.org/givingtoagu/making_your_gift.php

VGP has about 4,300 members and has been acquiring funds on a regular basis through donor giving. Thanks all of you who have been doing this. For those of you who would like to earmark an AGU gift contribution for VGP it is simple to do so. Last year our net funds increased by almost \$9,000 and by end of June of this year had reached a balance of \$34,246. This is becoming a significant pool of funds that could provide very useful support for a few activities. VGP will be discussing some suggestions for how best to utilise these resources over the coming months. Let us know your views. One possibility would be to support additional workshops around the Fall meeting. Another might be to consider developing a more comprehensive web support service. Developing the web page will be viewed in the context of broader plans for AGU's website.

(3) *Call for Session Proposals for the Meeting of the Americas, Brazil, August 2010*

The 2010 AGU Meeting of the Americas, will be held August 8-13 in Foz do Iguassu, Brazil. It promises to be an exciting meeting highlighting geophysical research from all of the Americas.

I am sending out the call to all scientists to propose special sessions at this meeting. As the VGP representative I hope to see many sessions highlighting the exciting geology of Central and South America! The deadline for proposing a VGP session is 31 December 2009. Full information on how to propose a session can be found on the AGU website: <http://www.agu.org/meetings/ja10>.

Don Baker

Spring Meeting VGP Representative

(4) *Special Events at the AGU Fall Meeting*

We are approaching the Fall meeting, which probably is the most exciting aspect of the year for AGU. This promises to be another great meeting.

Janne Blichert-Toft and Paul Wallace have worked hard on the program and

special sessions. The Fall meeting is unlike any other geosciences meeting and I would encourage you to plan on attending. It is much more than a VGP meeting; it is the biggest and many would argue the best meeting worldwide for bringing together almost the full spectrum of geoscientists. The main VGP events are as follows:

VGP Reception and Awards at Fall AGU, Tuesday 15 December from 6:30 to 8:00 p.m.

Please come to the VGP reception on the Tuesday evening at the *Intercontinental Hotel Grand Ballroom B/C, Third Floor*. It is a unique opportunity to relax together and talk informally in a large group. Most importantly the reception provides us with the chance to recognize our new Bowen and Kuno awardees. This year's **Bowen Awards** will go to **Tim Holland** and **Roger Powell**. This year's recipient of the relatively new **Kuno Award** is **Edwin Schauble** (UCLA). Receiving these awards is a very big deal for the scientists and their science. Please come along to join in the congratulations and celebrations, as well as to find out a bit more about their research.

Bowen Lectures, Tuesday 15 December

Tim Holland and **Roger Powell** will both give special Bowen Lectures on Tuesday morning from 1020 to 1120 in Session V22A in Room 2020 (Moscone West). Tim Holland's talk (coauthored by Roger Powell) is entitled "Calculated metamorphic phase equilibria. Applications and strategies for equilibria in high pressure rocks". Roger Powell's talk (co-authored by Tim Holland) is entitled "Activity-composition relationships in the forward modelling of metamorphic phase equilibria".

AGU Honors Evening, Wednesday 16 December

Another opportunity to honor our colleagues occurs on the Wednesday of AGU week, when the 2009 AGU Medals are presented. This year **Frank Richter** is receiving the **Harry H. Hess Medal** for fundamental contributions to the Earth Science through the application of physical and chemical modeling and experimental investigations across a remarkably diverse spectrum of the geological sciences.

The Honors Reception is being held in the Intercontinental Hotel, Grand Ballroom on Wednesday 16 December. The Honors Banquet requires tickets which can be purchased from AGU for \$60.

We look forward to seeing you in San Francisco.

Best wishes

Alex Halliday

VGP President

(5) VGP SESSIONS AT THE AGU FALL MEETING

The full program for the AGU Fall Meeting is available at <http://www.agu.org/meetings/fm09/>

Days, times, and locations of VGP sessions are listed below.

Janne Blichert-Toft and Paul Wallace (VGP Secretaries)

Title	Session times and places
Mechanistic Understanding of Factors Influencing Non-mass Dependent Fractionation	V11A M- 8:00 AM-12:20 PM Poster Hall (Moscone South) V13G M- 1:40 PM-3:40 PM 2018 (Moscone West)
Recent Developments in Non-traditional Stable Isotope Geochemistry	V11C M- 8:00 AM-12:20 PM Poster Hall (Moscone South) V14B M- 4:00 PM-6:00 PM 2018 (Moscone West)
Volatiles in the Earth – From Past to Present	V11D M- 8:00 AM-12:20 PM Poster Hall (Moscone South) V13H M- 1:40 PM-3:40 PM 2020 (Moscone West) V14C M- 4:00 PM-6:00 PM 2020 (Moscone West)
Chemical Evolution of the Mantle: Timing and Tempo?	V11E M- 8:00 AM-10:00 AM 2016 (Moscone West) V13A M- 1:40 PM-6:00 PM Poster Hall (Moscone South)
Crystals, Glass, Cracks and Bubbles: Degassing and Crystallisation in Silicic Conduits and Lavas	V11F M- 8:00 AM-10:00 AM 2020 (Moscone West) V12A M- 10:20 AM-12:20 PM 2020 (Moscone West) V13B M- 1:40 PM-6:00 PM Poster Hall (Moscone South)
Volcanism in the East African Rift System (EARS)	V11G M- 8:00 AM-10:00 AM 2018 (Moscone West) V13E M- 1:40 PM-6:00 PM Poster Hall (Moscone South)
Early Earth: Accretion, Magma Oceans, Giant Impacts and the Earliest Crust	V12B M- 10:20 AM-12:20 PM 2016 (Moscone West) V13C M- 1:40 PM-6:00 PM Poster Hall (Moscone South)
Quantitative Modeling and Cyberinfrastructure in Volcanology, Geochemistry and Petrology	V12C M- 10:20 AM-12:20 PM 2018 (Moscone West) V13D M- 1:40 PM-6:00 PM Poster Hall (Moscone South)
Layered Intrusions	V13F M- 1:40 PM-3:40 PM 2016 (Moscone West) V14A M- 4:00 PM-6:00 PM 2016 (Moscone West) V21A Tu- 8:00 AM-12:20 PM Poster Hall (Moscone South)
Remote Sensing of Earth's Active Volcanoes	V21B Tu- 8:00 AM-12:20 PM Poster Hall (Moscone South) V24B Tu- 4:00 PM-6:00 PM 2018 (Moscone West)
The Role of CO ₂ in Magma Evolution and Degassing Processes	V21D Tu- 8:00 AM-12:20 PM Poster Hall (Moscone South) V23H Tu- 1:40 PM-3:40 PM 2016 (Moscone West)
Volcano Databases: (Pre)Serving the Past and Present for the Future	V21E Tu- 8:00 AM-12:20 PM Poster Hall (Moscone South) V23I Tu- 1:40 PM-3:40 PM 2018 (Moscone West)
Mantle Potential Temperature: A Very Hot Topic	V21F Tu- 8:00 AM-10:00 AM 2018 (Moscone West) V23B Tu- 1:40 PM-6:00 PM Poster Hall (Moscone South)
The Physics and Chemistry of Ignimbrites: 40 Years of Progress?	V21G Tu- 8:00 AM-10:00 AM 2020 (Moscone West) V23C Tu- 1:40 PM-6:00 PM Poster Hall (Moscone South)
Volcano-Tectonics: New Insights From Earth and Other Planets	V21H Tu- 8:00 AM-10:00 AM 2016 (Moscone West) V23E Tu- 1:40 PM-6:00 PM Poster Hall (Moscone South)
Geochemical Investigations of Salt-Brine Systems at the Waste Isolation Pilot Plant (WIPP) and Other Geologic Repositories	V22B Tu- 11:20 AM-12:20 PM 2020 (Moscone West) V23A Tu- 1:40 PM-6:00 PM Poster Hall (Moscone South)
Volcanic Dynamics: Temporal Changes of Physical Properties at Volcanoes With and Without Surficial Activity	V23D Tu- 1:40 PM-6:00 PM Poster Hall (Moscone South) V31G W-- 8:00 AM-10:00 AM 2020 (Moscone West) V32B W-- 10:20 AM-12:20 PM 2020 (Moscone West) V33F W-- 1:40 PM-3:40 PM 2020 (Moscone West)
Forecasting and Monitoring Volcanic-Cloud Hazards: Scientific Contributions to Aviation Safety	V23F Tu- 1:40 PM-3:40 PM 3005 (Moscone West) V31A W-- 8:00 AM-12:20 PM Poster Hall (Moscone South)

Major Geochemical Cycles on Earth	V23G Tu-- 1:40 PM-3:40 PM 2020 (Moscone West) V24A Tu-- 4:00 PM-6:00 PM 2020 (Moscone West) V31D W-- 8:00 AM-12:20 PM Poster Hall (Moscone South)
Generation of High-Mg Andesitic and Adakitic Magmas - Petrogenetic Models and Ways Forward	V31B W-- 8:00 AM-12:20 PM Poster Hall (Moscone South) V34A W-- 4:00 PM-6:00 PM 2020 (Moscone West)
Innovations in Isotope Mass Spectrometry and Isotope Metrology in Geosciences	V31C W-- 8:00 AM-12:20 PM Poster Hall (Moscone South) V34B W-- 4:00 PM-6:00 PM 2018 (Moscone West)
Standards for Microanalysis: EPMA, LA-ICPMS and SIMS--Where are we and Where do we Need to Go?	V31E W-- 8:00 AM-12:20 PM Poster Hall (Moscone South) V33E W-- 1:40 PM-3:40 PM 2018 (Moscone West)
Mantle Heterogeneity: Origin, Scales and Caveats	V31F W-- 8:00 AM-10:00 AM 2018 (Moscone West) V33C W-- 1:40 PM-6:00 PM Poster Hall (Moscone South)
Dynamics and Geochemical Consequences of Melting, Melt Migration, and Melt-Rock Reaction in a Multi-scale Heterogeneous Mantle	V32A W-- 10:20 AM-12:20 PM 2018 (Moscone West) V33A W-- 1:40 PM-6:00 PM Poster Hall (Moscone South)
EARTHTIME and the Frontiers of U-Pb Geochronology	V33B W-- 1:40 PM-6:00 PM Poster Hall (Moscone South) V53B F-- 1:40 PM-3:40 PM 2018 (Moscone West)
Uranium Distribution in Time and Space: A Faithful Record of Earth's Evolution	V33D W-- 1:40 PM-6:00 PM Poster Hall (Moscone South) V54C F-- 4:00 PM-6:00 PM 2018 (Moscone West)
A Multidisciplinary Look at Volcanism in Continental and Oceanic Plate Interiors	V41A Th-- 8:00 AM-12:20 PM Poster Hall (Moscone South) V54A F-- 4:00 PM-6:00 PM 2020 (Moscone West)
Cenozoic Volcanism in Western North America: Plumes, Drips, Extension and/or Subduction?	V41B Th-- 8:00 AM-12:20 PM Poster Hall (Moscone South) V53A F-- 1:40 PM-3:40 PM 2020 (Moscone West)
Oceanic Plateaus Through Time: Formation, Preservation and Environmental Impacts	V41C Th-- 8:00 AM-12:20 PM Poster Hall (Moscone South) V51H F-- 8:00 AM-10:00 AM 2018 (Moscone West)
Thermochronology: Diffusion Kinetics in Accessory Minerals from He to Pb	V41D Th-- 8:00 AM-12:20 PM Poster Hall (Moscone South) V52C F-- 10:20 AM-12:20 PM 2018 (Moscone West)
Bridging Field, Geochemistry, and Physical Models to Better Understand the Evolution of Crustal Magma Reservoirs and the Generation of Differentiated Melts	V41E Th-- 8:00 AM-10:00 AM 2018 (Moscone West) V42A Th-- 10:20 AM-12:20 PM 2018 (Moscone West) V43H Th-- 1:40 PM-3:40 PM 2018 (Moscone West) V51A F-- 8:00 AM-12:20 PM Poster Hall (Moscone South)
Synthesizing Diverse Data Sets into Models of Hawaiian Plume and Island Evolution	V41F Th-- 8:00 AM-10:00 AM 2020 (Moscone West) V43F Th-- 1:40 PM-6:00 PM Poster Hall (Moscone South)
Using Small-Scale Observations to Answer Big Questions in Earth Sciences: Advances From 30 Years of Ion Microprobe Analysis	V42B Th-- 10:20 AM-12:20 PM 2020 (Moscone West) V43J Th-- 1:40 PM-3:40 PM 2020 (Moscone West) V44C Th-- 4:00 PM-6:00 PM 2020 (Moscone West) V51E F-- 8:00 AM-12:20 PM Poster Hall (Moscone South)
Ash Plumes, Lava Domes, Lahars, and Explosions: The 2009 Eruption of Redoubt Volcano, Alaska	V43A Th-- 1:40 PM-6:00 PM Poster Hall (Moscone South) V51F F-- 8:00 AM-10:00 AM 2016 (Moscone West)
Geochemically Complex, Multicomponent Fluids and Geologic Processes	V43B Th-- 1:40 PM-6:00 PM Poster Hall (Moscone South) V51G F-- 8:00 AM-10:00 AM 2020 (Moscone West) V52A F-- 10:20 AM-12:20 PM 2020 (Moscone West)
Nano- and Micro-scale Processes at Mineral	V43C Th-- 1:40 PM-6:00 PM Poster Hall (Moscone South)

Grain and Phase Boundaries in Metamorphic and Igneous Rocks: Solid-State Diffusion, Dissolution-Reprecipitation, and Mass Transport	V53C F-- 1:40 PM-3:40 PM 2016 (Moscone West)
New Insight Into Ultrahigh Pressure Metamorphism and Rheology in Collisional Orogenic Belts	V43D Th-- 1:40 PM-6:00 PM Poster Hall (Moscone South) V54B F-- 4:00 PM-6:00 PM 2016 (Moscone West)
Volcanology, Geochemistry and Petrology General Contributions	V43E Th-- 1:40 PM-6:00 PM Poster Hall (Moscone South) V51C F-- 8:00 AM-12:20 PM Poster Hall (Moscone South)
The 2008-009 Eruption of Halema'uma'u, Kilauea: Eruption, Ascent Dynamics, and Plume Dispersion	V43G Th-- 1:40 PM-6:00 PM Poster Hall (Moscone South) V52B F-- 10:20 AM-12:20 PM 2016 (Moscone West)
Submarine Volcanic Eruptions: Studies of Geological, Chemical, and Biological Processes	V43I Th-- 1:40 PM-3:40 PM 2016 (Moscone West) V44B Th-- 4:00 PM-6:00 PM 2016 (Moscone West) V51D F-- 8:00 AM-12:20 PM Poster Hall (Moscone South)
Field, Petrological, Textural, Geochemical, and Rheological Approaches to Understand Mantle Processes: A New Look at Old Problems?	V44A Th-- 4:00 PM-6:00 PM 2018 (Moscone West) V51B F-- 8:00 AM-12:20 PM Poster Hall (Moscone South)