



American Geophysical Union

**Volcanology, Geochemistry, and Petrology Section Newsletter
March 2014**

Dear Colleagues,

Here is the March issue of the AGU Volcanology, Geochemistry and Petrology Section newsletter. Please visit the VGP website (<http://www.agu.org/sections/VGP/>) for additional news and information. Comments and suggestions may be sent to [Sarah Fagents](mailto:fagents@hawaii.edu) (fagents@hawaii.edu).

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(1) MESSAGE FROM THE PRESIDENT

One of the important roles of AGU is to recognise and promote the achievements of its members in ways that can help to advance their careers and establish leadership in the sciences. AGU has been working hard to improve and simplify the nomination process for its rich and diverse Honors Program. There are new nomination deadlines for all awards and a single sign-on procedure for all nominations (see below). Look around at your peers and mentors and let the important people in your life know you respect and recognize their hard work. Nominate them today!

VGP has a number of award committees with different roles and responsibilities. Several committees have a decision component, namely the Bowen and Kuno Award committees which evaluate nominations and recommend awards, and the VGP Fellows committee which evaluates VGP-affiliated nominations and submits a ranked list to the Union Fellows committee. To avoid conflicts of interest in the evaluation process, the canvassing role for these awards has now been formally taken over by VGP committees with no decision component that tap similar talent pools. Henceforth the VGP Macelwane Medal committee (chaired by Kathy Cashman) will canvas also for Kuno Award nominations, while the VGP Union Awards, Medals and Prizes committee (chaired by Roberta Rudnick) will canvas also for Bowen and AGU Fellow nominations.

Jessica Ball has contributed immensely to VGP over the past two years as its first Student Representative, but she will be graduating soon and hence must pass the baton. Are you a

student who would like to become more involved in VGP activities and help keep communication lines open between students and AGU? If yes, then I would like to hear from you! Please contact me if you are interested or would like to know more (catherine.mccammon@uni-bayreuth.de).

The VGP web site has a new look which will (hopefully) be live by the time you are reading this. The new WordPress platform provided to all sections and focus groups by AGU will greatly facilitate innovations and improvements to better serve the needs of its members. VGP also has a new webmaster, and I would like to take this opportunity to thank Diana Roman for her great efforts with the VGP web site. Heather Wright will take over from Diana – welcome, Heather! VGP’s foray into social media is continuing, and the new VGP web site will provide a further platform for communication. Meanwhile our sister division in EGU is also now on Twitter (https://twitter.com/EGU_GMPV) with a steady stream of items of interest to the VGP community.

Catherine McCammon
VGP President

(2) IMPORTANT: NEW AGU AWARD DEADLINES AND PROCEDURES FOR 2014

AGU has streamlined the nomination procedure for awards, and deadlines are now harmonized across the entire organization. The new nomination deadlines are:

15 March Union Awards (Fellows, Awards, Medals & Prizes)

15 April Section and Focus Group Awards (including the Bowen and Kuno Awards)

A new submission process makes nominating easier than ever before. Simply log in using your AGU username (email address) and password. Go to <http://honors.agu.org/> for more information and to make a nomination, and information specific to VGP is available [here on the AGU website](#).

(3) CALL FOR SESSION PROPOSALS FOR 2014 AGU FALL MEETING

It’s time to submit proposals for VGP sessions at the 2014 AGU Fall Meeting.

Don’t assume someone else will be proposing a session on your favorite topic- Please take the initiative and submit a session proposal and make this a great VGP meeting!

Themed sessions bring together specialists from diverse areas of VGP, promote interdisciplinary research, and facilitate the debate of controversial topics. As a change for this year’s meeting we are strongly encouraging submission of broad topics of interest to create “Super-Sessions” that will be inclusive and result in full day sessions. (Savvy proposers know: narrowly defined sessions may not attract enough abstracts to merit an oral slot!)

Examples of broad topics of intense recent interest, many of which incorporate observational, analytic, modeling or experimental components, or focus on technological innovations that lead discovery, include:

- MORB volcanism

- Arc volcanism
- Intraplate continental volcanism
- Ultra-High Pressure metamorphism
- Volatiles in the deep Earth
- Early Earth dynamics/evolution
- Water-rock reaction and low-temperature geochemistry
- Compositional or textural microanalysis
- Geochronology and tephrochronology
- Volcano Monitoring
- New analytical methods

Sessions for which we have already identified Fall Meeting Conveners (and we thank in advance for their efforts!) are:

- Continental crust geochemistry/dynamics
- Hotspot/flood basalt volcanism

Sessions that link VGP to other sections or focus groups, e.g. biogeochemistry, cosmochemistry, deep interior processes, mineral physics, tectonics, etc. are also welcome. Early career scientists are encouraged to broaden their professional networks and propose sessions in partnership with established leaders. Conveners can request co-sponsorship by MSA and EGU, but the sessions selected will be announced by the VGP meeting committee later this year.

This year, the session proposal deadline is **9 April**. Information about how to submit a session proposal can be found on the AGU website: <http://fallmeeting.agu.org/2014/>

Questions or ideas? Contact VGP Secretaries Don Baker (don.baker@mcgill.ca) or Vickie Bennett (Vickie.Bennett@anu.edu.au)

(4) OUTSTANDING STUDENT PRESENTATION AWARDS 2013

The VGP student awards committee would like to congratulate the winners of the 2013 Outstanding Student Presentation Award. It was another phenomenal year of high quality entries and the committee enjoyed discussing research with what is a very talented group of junior scientists. The student awards committee would like to thank the judges and section coordinators for the constructive feedback given to the participants. Without the support of the community at large, this valuable program would not be possible. Please [consider serving as a judge](#) at the next meeting.

The winners in alphabetical order:

1. Arianna Soldati - Bubble Rise and Break-Up in Volcanic Conduits
2. Colin Jackson - Applicability of Henry's Law to helium solubility in olivine
3. Elizabeth Bell - Late Hadean-Eoarchean transitions in crustal evolution from Hf isotopic evidence in the Jack Hills zircons
4. Hilary Morgan - Analysis of multi-resolution satellite imagery of the 2012-2013 eruption of Tolbachik volcano, Kamchatka, with comparison of lava flow modeling and ground observations

5. Julia Kubanek - Monitoring lava dome changes by means of differential DEMs from TanDEM-X interferometry: Examples from Merapi, Indonesia and Volcán de Colima, Mexico
6. Mark Stelten - The mechanisms and timescales of rhyolite generation at Yellowstone caldera: New insights from ²³⁸U-²³⁰Th crystallization ages, trace-elements, and isotope compositions of zircon and sanidine
7. Philip Gopon - Quantitative EPMA of Nano-Phase Iron-Silicides in Apollo 16 Lunar Regolith
8. Suzanne Birner - Variations in Oxygen Fugacity among Forearc Peridotites from the Tonga Trench

Congratulations to all!

(5) EGU 2014 AND KUNO AWARD LECTURE

The European Geosciences Union (EGU) General Assembly is coming up on 27 April–2 May 2014 in Vienna, Austria, and VGP is again co-sponsoring sessions with the Geochemistry, Mineralogy, Petrology and Volcanology (GMPV) Division. The VGP Kuno Award Lecture will be given by Frédéric Moynier in a special evening slot. Early (discounted) registration ends on 31 March 2014, and AGU members can register at EGU member rates. We hope to see you there!

Sessions co-sponsored by VGP:

- Earth's early crust: geodynamical and geochemical perspectives on its origin, evolution and interplay with the mantle (Convener: Bruno Dhuime, Co-Convener: Pierre Bouilhol)
 - High-pressure and high-temperature mineral physics: a link between petrology, geophysics and geodynamics (Convener: Fabrizio Nestola, Co-Convener: Sergio Speziale)
 - The deep carbon geodynamic cycles (Convener: Fabrizio Nestola, Co-Conveners: Michael Burton, Michael Walter, G. Chiodini, Fabrice Gaillard and Bernard Marty)
 - Physics of Volcano Plumbing Systems (Convener: Olivier Galland, Co-Conveners: Steffi Burchardt, Eoghan Holohan, Matthieu Kervyn and Benoit Taisne)
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(6) NEW GRADUATE AWARD, SEDI FOCUS GROUP

The AGU “Study of Earth's Deep Interior” (SEDI) focus group has announced a [new Graduate Research Award](#) for current M.S. and Ph.D. students or those who will have completed their degrees in 2014. The goal of the award is to promote SEDI research to the broader community, to encourage interaction among SEDI members, and to foster early career development for students studying the Earth's deep interior. Nominees must be members of AGU who are engaged in experimental, observational, and/or theoretical studies of the deep interior of the Earth and/or other planetary bodies. This award will include a \$500 monetary award and recognition at the SEDI business meeting/reception at the 2014 AGU Fall Meeting. Nominations for the SEDI Graduate Research Award will be accepted online via the AGU website no later than 15 April 2014.

Questions about the award can be addressed by [Sabine Stanley \(stanley@physics.utoronto.ca\)](mailto:stanley@physics.utoronto.ca).

[For more award details, including nomination criteria and materials, visit the AGU website.](#)

(7) ANNOUNCEMENT: TEPHRA WORKSHOP, 3-7 AUGUST 2014

The workshop “Tephra 2014 - Maximizing the potential of tephra for multidisciplinary science” will be held on 3-7 August at Portland State University in Portland, Oregon, USA. This 4-day workshop will discuss major developments, best practices, and future directions/needs in tephra studies from the perspectives of volcanology, tephrochronology, and Quaternary sciences. Applications and abstract submissions are due by **15 April**. See [Tephra2014 website](#) for more details.