



American Geophysical Union
Volcanology, Geochemistry, and Petrology Section
Newsletter: July 2015

Dear Colleagues,

Here is the latest issue of the AGU Volcanology, Geochemistry and Petrology (VGP) Section newsletter. Please visit the [VGP website](#) for further news and information. Feedback and items for future newsletters may be sent to [Sarah Fagents](#).

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(1) MESSAGE FROM THE PRESIDENT

Between 10 June and 5 August, you will all be able to submit your abstract to one of the sessions of the next Fall Meeting that will occur 14–18 December in San Francisco. I would like to remind you that you need to be an AGU member to submit your abstract. All information is available on the [AGU website](#). I also take this opportunity to remind you that you can [make a donation](#) to the VGP section while [joining or renewing your membership](#). Why should you? The VGP section does not have excess funds and needs money to provide you the best possible service. What do we do with the money? We help students travel to the meeting by providing travel grants and who receive an "Outstanding Student Paper Award" to come to the following meeting, and we organize a reception during the AGU Fall Meeting where all awards are presented. Any donation is welcome and will help us provide the best service to the community. It can be anything between \$10 and whatever you feel happy to give! It also does not have to come on top of a donation to the general AGU funds; it can replace it. Just tick the VGP section!

Thank you all for your support.

Catherine Chauvel,
AGU Section President, Volcanology, Geochemistry, and Petrology

(2) AGU FALL MEETING, SAN FRANCISCO, 14–18 DECEMBER 2015: CALL FOR ABSTRACTS

Summer is here, and it is time to start thinking about the AGU Fall Meeting. The 2015 AGU Fall Meeting abstract submission site is now open! Make sure our scientific field is well represented at this prestigious Earth and space sciences meeting. This is without a doubt one of the most important Earth and planetary science meetings in the world. It is also a great opportunity to get visibility and quality feedback on your science from nearly 24,000 of your peers. We want to make this year's meeting better than ever, but its success depends upon you and your science. We have many exciting sessions planned (see below), but they need your abstracts. Please encourage your colleagues to submit their abstracts, and get their research noticed too.

Submit Early and Win Big. As a new incentive to encourage people to submit their abstract early this year, AGU is offering the chance to win **FREE** registration to the 2015 Fall Meeting if you submit your abstract by Wednesday, 29 July 2015.

The official abstract submission deadline is Wednesday, **6 August 2015, 11:59 p.m. EDT.**

[SUBMIT ABSTRACT HERE](#)

I hope to see you all in San Francisco 6 months from now!

Don Baker
AGU Fall Meeting Chair, Volcanology, and Petrology

List of VGP sessions:

- [Volcano-hydrothermal systems](#)
- [4D variations in Cascade Arc magmatic systems: Linking tectonics, geochemistry, and geodynamics](#)
- [A Tangled Web? Generation and transport of fluids, volatiles, and melts in subduction zones from source to surface](#)
- [Advances in geothermobarometry and geospeedometry](#)
- [Chemical and dynamical constraints on the formation and evolution of the terrestrial planets](#)
- [EARTHTIME: Progress and updates](#)
- [Ensuring transparency and reproducibility in geochemistry and geochronology](#)
- [Eruptive processes and watery hazards of "wet" volcanoes on land, in the sea, or under ice](#)
- [Generation and evolution of the oceanic lithosphere](#)
- [Geochemistry of sediments and sediment recycling and implications for crust and mantle evolution over Earth history](#)
- [Geology, geophysics, geochemistry, and biology of serpentinization processes on Earth and other planets](#)
- [Glacial cycles and volcanism on land and undersea](#)
- [Heterogeneity in the Earth's interior: The ongoing processes of differentiation](#)
- [High-temperature carbonates: Fluid-rock interactions from hydrothermal veins to carbonate magmas](#)
- [High-temperature thermochronology: Theory, analysis, and application to Earth processes](#)
- [Highly siderophile and strongly chalcophile elements in high-temperature geochemistry and](#)

[cosmochemistry](#)

- [How and when do volcanic eruptions start and stop, and what controls the tempo of everything in between?](#)
- [Innovative approaches to deciphering metamorphic processes](#)
- [Interdisciplinary perspectives on continental crust evolution](#)
- [Magma channelization across the Solar System](#)
- [Magma transport in the crust through dikes and sills](#)
- [Mineralization, metasomatism, and mass transfer associated with crustal magmas](#)
- [Novel high-resolution approaches to deciphering source-to-sink linkages between tectonic hinterland and basin evolution](#)
- [Peridotite records of mantle dynamics](#)
- [Quantifying storage, transport, and volumes of magmas in the Earth's crust](#)
- [Resolving process through geochronology: New techniques, applications and interpretations](#)
- [Secondary mineralization in bedrock: Diagenesis, cementation, hydrothermal precipitation, and the interpretation of paleofluid flow](#)
- [Structure, dynamics, and properties of silicate melts and magmas](#)
- [Styles of volcanism: Forecasting, pattern recognition, and monitoring developing eruptions](#)
- [The Earth's geodynamic carbon cycle: Subduction, storage, migration, and outgassing](#)
- [The ophiolite-subduction connection: Using peridotites as analogs for subduction zone mantle](#)
- [The tempo of continental flood basalt eruptions](#)
- [The history of a diamond: Insights from melts, fluids, and mineral inclusions](#)
- [The origin of basaltic magmatism](#)
- [The secret life of minerals: Reconstructing pre-eruptive magma storage and ascent dynamics](#)
- [UAVs and the Earth sciences: Applications and perspectives](#)
- [Understanding basaltic explosive eruptions: evidence from the field, the lab, and modeling](#)
- [Volatile distribution and cycling in the mantle](#)
- [Volcano-atmosphere interactions](#)
- [Volcanology, geochemistry, and petrology general contributions](#)
- [What can pyroclasts tell us? Multi-parametric approaches to decipher the record of volcanic eruptions](#)
- [Where arc magmas reside: Comparing the volcanic and plutonic records](#)
- [Yellowstone volcanism from its current expression to early vestiges of hotspot activity via geophysical and petrologic studies](#)

(3) VGP section awardees

I am extremely pleased to announce the recipients of VGP awards that will be presented at this year's AGU Fall Meeting. The Daly Lecture will be given by Katharine Cashman, the Kuno Award will be presented to Christian Huber, and the Bowen Award will be given to Thomas Sisson this year. Congratulations to all award recipients! I would also like to thank Michael Dungan (Kuno chair) and Marc Hirschmann (Bowen chair) and their committees for their excellent work this year.

Catherine Chauvel,
AGU Section President, Volcanology, Geochemistry, and Petrology

(4) OUTSTANDING STUDENT PRESENTATION AWARDS

The student awards for the VGP section at the 2015 Joint Assembly, hosted in Montreal, Calif., have been announced:

1. Jennifer Blanchard, Carleton University, [VGP34A-0413](#), Modelling the Structure and Composition of Layered Intrusions in Plume Center Regions using Potential Field Data
2. Patrick Beaudry, Queens College of the City University of New York, [VGP44A-0430](#), Sulphur Isotope Fractionation During Degassing of Canary Island Magmas

More than 25 presentations were judged for the Joint Assembly. Congratulation to the two winners!!

Tyrone Rooney
OSPA Committee Chair, Volcanology, Geochemistry, and Petrology

(5) TRIBUTE TO TODD FEELEY

Todd Christian Feeley, born in September 1961, took his life in March 2015. We have lost a thoughtful colleague and a steadfast friend. He distinguished his career with a long string of insightful papers that integrate geology and petrology of volcanic rocks. His work was always soundly based in field geology, and his coworkers remember him for his outstanding skills in the field. He did not shy from using a wide range of sophisticated tools to address problems in volcanic petrology. His 1989 M.S. degree at Oregon State University with Anita Grunder on Middle Tertiary volcanism in eastern Nevada was followed by his 1993 Ph.D. degree at UCLA with Jon Davidson on Volcan Ollaguë and the Central Andes. His fascination with subduction zone petrology continued with his postdoc work with Michael Dungan in Geneva focused in the Southern Andes. He continued his career as a faculty member at Montana State University, marching up the ranks to tenure and associate professor leaving a wake of master's students and several dozen publications on Mt. Lassen, the Pribilof Islands, and the Absaroka Volcanic Province. Todd worked tirelessly and was always ready to share his geological and petrological insight and to see the work to print. He never shied from sharing his point of view, and he more often than not spearheaded discussions on magmas, their sources, and how they erupt. A talented and complex person, we remember him for his passion for geology and for the gift of his quirky and unorthodox perspectives. Never easy and always interesting: Todd Feeley. May there be andesite wherever he has gone.



Anita Grunder

Peter Larson

Anita Grunder and Peter Larson