



## Newsletter of the GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division

### Message from the Chair

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Greetings MGPV Members!

I know it's still summer but this year's GSA meeting in Vancouver, British Columbia, will be here before you know it. I hope you are planning to attend. Because of our large membership and diverse areas of interest the Division and its associated societies are sponsoring 67 technical sessions, even more than last year's meeting in Denver. There are also many great field trips and short courses to consider. It should be a great meeting – more details are included in the rest of the newsletter.

As we move deeper into a world of social media, watch for MGPV to start using GSA's Connected Community. You are automatically a member already. Check it out at <http://community.geosociety.org/home/> and be one of the first members to use it. GSA Council is ready to move on making more publications open access. Income from publications has historically been one of the most important revenue sources for GSA, but it has been dropping as individuals have stopped subscribing to print journals. The model being proposed calls for authors to pay a fee upfront. More details will be released later. GSA is also seeking new book proposals and devising ways to grant digital access to these important publications.

I'm grateful for the ready support we have received from many of you to serve on division committees. We still need your help in finding a newsletter editor and a web site manager. Also we encourage you to nominate a colleague for a GSA award, fellowship, MGPV career award, or for our new MGPV early career award. These career awards honor those who have made outstanding contributions by taking a multidisciplinary geologic approach, with a strong field component to their research.

Students are an increasingly important part of our Division. With the GSA decision to give students one free division membership, 60% of our members are students. Four

students received MGPV research awards this year, chosen with difficulty from many great proposals. Be sure to read about the work they are doing. True to our multidisciplinary nature, student awardees are using tools from all of these disciplines. Tom Benson, a winner of one of this year's student awards, has agreed to represent the Division on the newly formed GSA Student Advisory Council. We are also developing the ground rules for a student travel award that will be announced soon.

I hope to meet many of you at our Business Meeting, Sunday, 19 October 2014, 12:30-1:00 pm or at the Joint Reception with the Mineralogical Society of America and the Geochemical Society, Tuesday, 21 October 2014, 5:45-7:45 pm. We will honor this year's recipient of the MGPV's Distinguished Geologic Career Award, Dr. Frederick Frey of the Massachusetts Institute of Technology. Read more in the newsletter.

Prepare now to meet in Vancouver – use this checklist to make sure you get through customs quickly: <http://community.geosociety.org/gsa2014/vancouver/travel/checklist>.

Finally, please vote on the new ballot issues – incoming members of the management board and proposed changes in our bylaws to allow for student representation.

Eric H Christiansen, 2014 Chair, MGPV Division  
Brigham Young University

## **2014 MGPV Division Distinguished Geologic Career Award to Frederick A. Frey**

Frederick A. Frey, Massachusetts Institute of Technology, is the 2014 Distinguished Geologic Career Awardee. The award will be presented at the Reception during the 2014 GSA Annual Meeting, Vancouver, BC, Canada following a session in his honor: T117. *Magma and Their Sources: A Tribute to the Distinguished Career of Fred Frey*



Dr. Frey is cited for a remarkable and pioneering career in analytical geochemistry and trace element modeling of geologic phenomena, his appreciation of field observations and, in particular, the geologic context in interpreting magmatic processes.

Fred Frey's early career centered on the use of neutron activation methods for the analysis of rare earth elements (REE) in rocks. This led to numerous seminal papers on the contents of REE and the significance of REE patterns in basaltic rocks, tektites and ultramafic rocks. This work resulted in an early understanding of the LREE-depleted signature of mid-ocean-ridge basalts that came to be known as MORB's, and the significance of that signature for Earth's geochemical evolution. Understanding the petrogenesis of ocean-ridge basalts as a source of information on the Earth's upper

depleted mantle has been one of Fred's major and continuing goals and much of Dr. Frey's work has centered on mantle plumes and plume related volcanism – the Hawaiian-Kerguelen islands, the Ninety East Ridge, and Iceland.

Although initially trained as a chemical engineer and physical chemist, Dr. Frey realized very early in his career that if he was to understand the earth's mantle and melting processes within it he needed two approaches: first, to study mantle rocks and mantle-derived magmas within different tectonic environments; secondly, to integrate geochemistry with field and volcanological studies with petrologic, mineralogic, and isotopic analyses.

Fred Frey's work on ultramafic rocks represented a great analytical challenge, performing rare earth element analysis using both instrumental and radiochemical neutron activation techniques. One of the earliest discoveries of this work was the widespread evidence for metasomatism of mantle rocks, and the resulting mystery of the origin of metasomatic fluids or melts and how they interacted with mantle minerals.

Fred's interest in continental arc rocks, specifically subduction zone-related magmatism in the South American Andes, addressed questions he conceived by combining field observations and geologic context: How do along-strike and cross-strike changes in various geologic parameters -- such as crustal thickness -- affect chemical compositions, eruptive styles, and edifice sizes? His important work in the Andes resulted in a greater understanding of the relative roles of the subduction zone mantle wedge and continental crust in the generation of magmas along the southern Andean volcanic chain and in the back-arc environment.

## MGPV Division Student Research Grants

This is the third year for the MGPV Division's annual student research award, and the Division has been able to increase the number of awards from two to four. The 2013 awardees are:

**Thomas Benson** of Stanford University for his project: Metallogeny of energy-critical elements in mid-Miocene rhyolites associated with Steens/Columbia River flood basalts.

Tom Benson is currently a fourth-year PhD student at Stanford University working with Prof. Gail Mahood. He obtained a Bachelor's degree in Earth and Planetary Sciences from Harvard University in 2009, where he studied the thermal conductivity of New Hampshire granites and their feasibility as Enhanced Geothermal Energy reservoirs. He continued his geothermal



energy work as a Research Associate at MIT, working with seismologists to develop a model to relate seismic velocity to temperature. Prior to starting his PhD at Stanford, Tom was a Fulbright Scholar in Iceland, where he analyzed fluid inclusions from geothermal systems in collaboration with the Iceland Geosurvey. His dissertation research is funded by a Department of Defense NDSEG Fellowship and involves mapping mid-Miocene silicic calderas in southeastern Oregon and evaluating the volcanological, geological, and geochemical controls on the concentration of “energy-critical elements” (Li, Ga, Y, REE) in their associated magmas.



**Joshua M. Garber** of University of California -Santa Barbara for his project: Lu-Hf Ages of Sub-Ophiolitic Rocks, Semail Ophiolite, Oman: Testing Models for Ophiolite Obduction.

I would first like to thank the MGPV division and GSA for funding this proposal; these rocks are from a classic, well-studied exposure in Oman and I am excited to add to our collective knowledge about them. I am currently finishing my second year as a Ph.D. student with Bradley Hacker at UC Santa Barbara. My dissertation research is split into two different projects: one is focused on Lu-Hf dating of eclogites to study continental subduction and ophiolite emplacement, and the other uses titanite U-Pb

and trace element geochemistry to look at ductile flow of continental crust and time-scales of UHP exhumation. Before coming to UCSB I worked with Sarah Roeske for my M.S. at UC-Davis, studying lower-crustal shear zones in northern Argentina. Prior to that I did a senior thesis looking at fluid inclusions in metamorphic rocks with William Carlson at UT-Austin. What I enjoy most about being a geologist is that it allows me to combine my natural curiosity with my love of the outdoors - in my spare time you can find me exploring the mountains and deserts of southern California.

**Rohanna Gibson** of Queens University for her project: Along-strike strain variation in the Himalayan metamorphic core, west Nepal.

My interest in rocks was inspired by my love for outdoor adventures, and I quickly developed a passion for geology and earth processes. Currently I am a MSc student at Queen's University in Kingston, Canada researching along-strike strain variation in the Himalayan metamorphic core, supervised by



Laurent Godin. I received a BSc in Earth Science from the University of Victoria in Victoria, Canada where I completed an undergraduate thesis on mapping and structural analysis of orogenic gold mineralization in southwest Yukon with Stephen Johnston and Steve Israel.



**Ming Tang** of the University of Maryland for his project: Large variation of Li isotopic compositions in zircons: evaluating the role of kinetics.

I am currently a 3<sup>rd</sup> year PhD student at the University of Maryland. Geochemistry is my major, and I am working with Bill McDonough and Roberta Rudnick at the Geology Department.

I graduated from Nanjing University, China, where I developed my interest in geochemistry. I started my study and research here in 2011. My supervisors were kind enough to provide me multiple projects to play with, so that I could find out what specific areas that I might be interested in. These projects include Eu anomaly in the upper mantle and continental crust, and Li isotopes in the Lesser Antilles arc lavas. Both the Eu and Li projects trained my analytical skills. The

Eu project also introduced me to geochemical modeling on kinetic processes. I like these small projects. And for my PhD thesis work, I decided I should combine what I learnt from these projects and make new progress. In May 2014, I successfully defended my PhD proposal on evaluating diffusive fractionation of Li isotopes in zircon.

I like science, but it's not my life. I enjoy travel and photography. Shortly after my PhD proposal defense, I conquered Mt. Whitney, the highest summit in the contiguous United States with an elevation of 4421 m.



## MGPV at Vancouver 2014

- *Technical Sessions.* MGPV and its Participating Societies are sponsoring one Pardee Keynote Symposia and 67 technical sessions.

- *Reception.* The MGPV Division will join with the Mineralogical Society of America and the Geochemical Society in a joint reception on Tuesday, 21 October 2014: 5:45 PM-7:30 PM, during which:

*MGPV 2014 Distinguished Geologic Career Award.* The MGPV Division's 2014 Distinguished Geologic Career Award will be presented to **Frederick A. Frey**, Massachusetts Institute of Technology, Cambridge, MA, United States, during the MGPV Reception. Dr. Frey will give his *Distinguished Geologic Career Award Lecture* - at the MGPV-sponsored session T117: *Magmas and Their Sources: A Tribute to the Distinguished Career of Fred Frey*.

*MGPV Division Student Research Grants.* **Thomas Benson** of Stanford University, **Joshua M. Garber** of University of California-Santa Barbara, **Rohanna Gibson** of Queens University, and **Ming Tang** of the University of Maryland, student research grants recipients, will be recognized during the MGPV Reception.

- *Business Meeting.* The Division will have the required business meeting. Sunday, 19 October 2014: 12:30 PM-1:00 PM, VCC-West. There will be a brief update about the Division, and an opportunity to ask questions or make comments.
- *Booth.* The Division will have a booth in the Exhibit Hall.

2014 Annual Meeting in Vancouver, BC, Canada  
Sessions sponsored by MGPV and its Associated Societies

#### Pardee Keynote Symposia

1. Apatites I Have Known: From Man to Mars

#### Technical Sessions

- T002. Emplacement of Upper Crustal Magmatic Intrusions: Field Studies of Laccoliths, Sills, and Subvolcanic Plugs
- T003. Ridge to Trench Evolution of Oceanic Lithosphere and Its Accretion Tectonics in the Pacific Rim (Past and Present)
- T004. Circum-Arctic Lithosphere-Basin Evolution
- T005. Tectonic and Magmatic Evolution of the Aleutian Arc in Space and Time
- T008. Cordilleran Ophiolites: Tectonic Significance and Comparisons with Other Orogenic Belts
- T009. Reconstruction of East Asian Blocks in Pangea
- T010. Development and Destruction of Accretionary Complexes in Time and Space: Evolving Evidence from Modern Techniques and Structural Analysis of the Rock Record
- T015. Continental Arcs #1: Tectonopetrologic Processes Controlling Arc Tempos and Evolution

- T016. Continental Arcs #2: Processes at Arc to Magma Reservoir-Scale and Connections from Magma Source to Volcano
- T016. Continental Arcs #2: Processes at Arc to Magma Reservoir-Scale and Connections from Magma Source to Volcano
- T017. Continental Arcs #3: Mapping the Temporal and Compositional Evolution of Subvolcanic Magmatic Systems
- T019. The Geodynamics of Flat-Slab Subduction and Its Influence on Upper Plate Deformation, Magmatism, and Basin Evolution
- T020. Magmatism, Tectonics, and Metallogeny of the Central Asian Orogenic Belt
- T023. Exploring the Development of the Himalayan-Karakorum- Tibet Orogenic System from the Mantle to Mountain Peaks
- T029. Geologic Processes That Influence the Tectonic Development and Economic Resources of the Northern North American Cordillera
- T042. Landscape Evolution through the Lens of Cosmogenic Nuclides
- T045. Tracking Sediment Movement across Earth's Surface
- T057. Digital Geology Sandpit (Digital Posters)
- T059. A Grand Tour of the World's Most Important Geological Sites on Google Earth
- T080. Urban Pollutants and Their Effects on Environmental and Human Health
- T090. Honoring the Diverse Career of Eric S. Cheney: From Ore Deposits and Sequence Stratigraphy to Pacific Northwest Geology and Citizen Responsibility
- T091. New Insights on Porphyry Cu-Mo-Au Deposit Genesis, Fertility, and Exploration
- T094. Advances in Geologic Applications of Infrared Spectroscopy
- T102. Asbestos, Fibrous Zeolites, and Other Elongate Mineral Particles (EMP) of Environmental Concern: Where Mineralogy and Geology Meet Epidemiology, Industrial Hygiene, and Public Policy
- T103. Mining and the Environment: Addressing Common Challenges Faced across the Mining Industry
- T117. Magmas and Their Sources: A Tribute to the Distinguished Career of Fred Frey
- T118. Frontiers in Non-Traditional Stable Isotopes: In Honor of Fang-Zhen Teng, Recipient of the 2014 MSA Award
- T119. Organic Carbon Proxies in Terrestrial Paleoecology
- T121. Apatites I Have Known: From Man to Mars (Posters)
- T122. Magmatism and Geodynamics within the Cascadia Subduction Zone
- T123. Advances in Nuclear Forensics
- T124. Sources, Transport, Fate, and Toxicology of Trace Elements and Organics in the Environment
- T127. Urban Geochemistry
- T134. Geomicrobiology: Microbe-Mineral Interactions
- T138. Geoscience Investigations of the Polar Regions
- T154. Groundwater and Surface-Water Arsenic: From Source to Sink
- T155. The Role of Groundwater in the Eutrophication of Surface Waters
- T161. Application of Isotopes of Water to Characterize Hydrogeological Processes in Mine Environments
- T166. Gas-Water Interactions in the Subsurface
- T171. Leading Edge of Produced Water Research: Impacts, Fingerprinting, and Science of Brines Associated with Hydrocarbon Production
- T174. Non-Steady-State Element Dynamics in Lakes
- T183. Theory and Experiment in Petrology and Geochemistry: A Session in Honor of Bernard J. Wood, 2014 Roebling Medalist
- T184. Gemological Research in the 21st Century: Exploration, Geology, and Characterization of Diamonds and Other Gem Minerals
- T185. Pegmatites I Have Known and Loved

- T186. Natural Carbon Dioxide Accumulations as Analogs for Geologic Storage
- T188. Organic-Rich Mud Rocks: Geochemistry, Physical Properties, and Paleo-Environments
- T191. What Do We Know about Fluids Produced from Unconventional Reservoirs?
- T192. High-Resolution Geochemical Proxies of Global Change: Progress, Problems, and Utility (Posters)
- T193. Speleothem Records of Climate Change in North America
- T194. Exploring Ocean Redox Chemistry with Modern and Ancient Records
- T195. Extreme Environmental Conditions and Biotic Responses during the Permian-Triassic Boundary Crisis and Early Triassic Recovery
- T196. Climate Change in the Geological Record: What Can We Learn from Data and Models?
- T197. Deep-Time Paleosols and Sediments from the Boundary Events (Flood Basalt Eruptions and Bolide Impacts): Their Applications and Limitations as Geological Proxies in Understanding the Paleo-Environmental Conditions during the Mass Extinctions
- T198. The Ordovician Revolution: Co-Evolution of Climate and the Biosphere
- T202. The Tonian-Cryogenian World
- T206. Mass Extinctions: Volcanism, Impacts, and Catastrophic Environmental Change
- T215. Chikyu Meets Lithoprobe: Can We Connect Modern Arcs and Ancient Continental Crust?
- T216. Cenozoic Magmatism and Volcanism in the North American Cordillera
- T217. Mechanisms, Rates, and Timescales of Texture Formation in Metamorphic Rocks
- T218. Subduction Zone HP-UHP Metamorphism and Its Relation to the Coeval Magmatism
- T222. Curiosity on Mars—Inspiring the Young Generation
- T224. When Water Meets Rock: Aqueous Alteration in the Solar System
- T229. The Holey Solar System
- T232. Remote Sensing of Volcanoes in the Solar System
- T233. Tectonics and Volcanism in the Solar System
- T245. Ancient and Modern Cultural Responses to Volcanic Disasters—Messages for the Future
- T246. Glaciovolcanism at Snow- and Ice-Clad Volcanoes

## **MGPV at GSA Section Meetings**

Divisions have the primary responsibility for developing the technical session program for GSA Annual Meetings. They are now being asked to take a similar active role for the Section meetings where their involvement has been small. Please consider developing and submitting theme session topics for 2015 Section meetings. Now is the time to approach the organizers of those meetings to get MGPV Division theme sessions into the programs. Contacts are listed on the GSA Section Meetings page <<http://www.geosociety.org/meetings/>>.

## MGPV Membership and Finances

• **Membership.** The Division has grown rapidly since it was established in October of 2009:

Number	
547	2009 Division affiliates as of 31 December 2009
972	2010 Division affiliates as of 30 December 2010
1,437	2011 Division affiliates as of 30 December 2011
1,434	2012 Division affiliates as of 30 December 2012
1,382	2013 Division affiliates as of 30 December 2013
2,059	2014 Division affiliates as of June 30, 2014

GSA has instituted a policy wherein students can join their first Division at no cost. This has dramatically increased MGPV membership for 2014. Students have gone from about 30% of the membership to 60%. But one result is a loss of income. Help us sustain a strong Division by renewing, asking others to join, and volunteering. We have 725 individuals with lapsed memberships, so there is room to grow.

• **Finances:** As of 06/30/2014, MGPV has a cash balance of \$21,565.86. Dues income in 2013-2014 (GSA's and the Division's fiscal year to July 1 through June 30) was \$8,491.75, a drop from the previous \$9,503.35 for 2012-2013. There was \$1,500 in transfers from the GSA Foundation. Expenses during this period were \$152.25 AV services, postage, shipping, and freight; \$9,001.10 for student grants, awards & awardee travel support; \$2,234.91 for the reception (1/3 of the total cost with the balance shared between GS & MSA). Bottom line: we have enough money for the upcoming 2014-2015 expenses for MGPV's awards, reception, and keeping the number of student research grants at 4, but must keep an eye on the dues income loss.

## Announcements from MGPV

Please consider nominating deserving MGPV members for GSA Fellowship. The deadline has passed for this year, so it would be good to remember for the 1 February for next year. GSA members are elected to Fellowship in recognition of distinguished contributions to the geosciences. The criteria for GSA Fellowship, the nomination process, the names of current fellows are given on the GSA website.

## Announcements from Adhering Associated Societies

• Web listing of MGPV-related Scientific Meetings and Events at:  
<<http://homepages.udayton.edu/~koziolam/meetings.html>>



• The **Mineralogical Association of Canada (MAC) Annual Meeting** is 3-7 May 2015 in Montreal, QC, Canada. Joint Assembly will be the annual meeting for GAC-MAC-

CGU as well as the spring meeting for AGU. More information and online registration at <http://ja.agu.org/2015/>.



- **Goldschmidt 2015**, 16-21 August 2015 in Prague, Czech Republic <http://goldschmidt.info/2015/>. Call for Session proposals October 2014. January - April 2015 Abstract Submission and Online Registration.

• The **Clay Minerals Society (CMS) 52<sup>st</sup> Annual Meeting** is **July 5-10, 2015, Edinburgh, Scotland**. Details at <http://www.euroclay2015.org>. The Clay Minerals Society (CMS) invites applications for its **2014 CMS student research and travel grants**. Several grants of up to \$3,000 are made annually. The application deadline is 15 March 2015. **2015 Award Nomination** deadlines is 31 March 2015. More information and online application on the CMS website, <http://www.clays.org>.



• The Mineralogical Society of America (MSA) invites applications for the **2016 MSA Grant for Research in Crystallography** and for the **2016 MSA Student Research In Mineralogy and Petrology**. There are up to five research grant awards of \$5,000 each. Application deadline is June 1, 2015. Awardees need not be MSA members; MGPV student members are invited to apply. More information and online application on the MSA website, <http://www.minsocam.org>.



• The Mineralogical Society of Great Britain & Ireland (MSGBI) 5–10 July 2015 **The Clay Minerals Group, The Clay Minerals Society, ECGA, International Natural Zeolite Association, The Mineralogical Society Euroclay 2015** University of Edinburgh.

• MSGBI offers **travel/research bursaries** directly and through its constituent special interest groups (Applied Mineralogy, Clay Minerals, Volcanic and Magmatic Studies, Metamorphic Studies, Geochemistry, Environmental Mineralogy Group, Mineral Physics). Visit [www.minersoc.org](http://www.minersoc.org). MSGBI also offers free membership to students

for one year. This includes a subscription to *Elements* and is open to applicants from all countries. Details at <http://www.minersoc.org>.

• **Mineralogical Society Distinguished Lecturer Programme** has the aim to promote interest and discussions across the broad field of Mineral Sciences (including all aspects of petrology and geochemistry at the Earth's surface and at depth) and the Mineralogical Society has appointed two lecturers to give lectures at universities and related institutions aimed to appeal to undergraduates and research students as well as more advanced scientists. The Mineralogical Society pays the travel expenses of the lecturers; whilst the host departments cover any accommodation and dining expenses. Details at <http://www.minersoc.org/distinguished-lectures.html>.

**Remember, come year-end:**

Renew your MGPV Division membership when you renew your GSA membership.

Encourage your MGPV-interested colleagues to join.

The easiest time to join or renew your membership in a Division is at renewal time!

## Division Management Board

### Officers

#### **Chair (2014)**

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#### **First Vice-Chair (2014)**

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#### **Second Vice-Chair (2014)**

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#### **Secretary-Treasurer (2013-2014)**

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#### **Past Chair (2014)**

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#### **GSA Council/Division Liaison**

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### Adhering Society Representatives

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Welcome to the newsletter of GSA's Mineralogy, Geochemistry, Petrology, and Volcanology (MGPV) Division. Aside from the Division website, newsletters are one important means for GSA Division leaders to communicate information to their members, and they serve as an archive for the Division.

The MGPV Division publishes two newsletters per year. The first after GSA's and Division's Annual Meeting and before any elections, deadlines for abstracts, and nominations. A second newsletter is issued a month or so before the Annual Meeting. Newsletters will contain Division news, calls for award nominations and meeting abstracts, announcements of upcoming meetings, ballot and officer candidate information, meeting news, award acceptances, and other important news and information.

If you are a member that has email access, a notice will be sent by GSA alerting you that a new issue has been posted on the website. Those members who do not have internet access will receive the newsletter in paper form through the US mail sent by GSA. Issues of the newsletter, both present and future, will be available for retrieval in electronic Portable Document Format (pdf) on the Division's website.

The MGPV Division leaders welcome your feedback to the newsletter of the Mineralogy, Geochemistry, Petrology, and Volcanology (MGPV) Division.

**Newsletter Editor:** To be determined

**Webmaster:** To be determined

**GSA MINERALOGY, GEOCHEMISTRY, PETROLOGY, AND VOLCANOLOGY (MGPV) DIVISION  
Ballot for 2014 Officers MGPV Division**

Please vote for Division Officers by completing the section at the bottom and mailing it to GSA postmarked no later than August 31. Biographical information on the candidates is included.

Balloting will be **open through September 5.**

Ballot link to vote through on-line system:

<http://rock.geosociety.org/ballot/vote.asp?Name=mgpv>

Access the online ballot by using either your GSA member number or your e-mail address that is in your GSA member records. For membership assistance, please contact GSA at: [gsaservice@geosociety.org](mailto:gsaservice@geosociety.org) or call (888) 443-4472. You may also submit your ballot by Fax: (303) 357-1074.

**Division Officers:**

The officers of the MGPV Management Board changes yearly after the Division Annual Business Meeting. Elections are held over 30 days annually for the position of Second Vice Chair and biennially for the position of Secretary-Treasurer. According to the Division By-Laws, the current Division Chair (**Eric H. Christiansen**) will advance to the office of Past Chair, the current Division First Vice-Chair (**Diane Ruth Smith**) will advance to the office of Chair, and the current Second Vice-Chair (**Yildirim Dilek**) will advance to the office of First Vice-Chair. Below is the ballot to elect a Second Vice-Chair and a Secretary-Treasurer (J. Alex Speer).

Biographical information on the candidates:

**Second Vice-Chair 2012 – 2013 (1 year term)**

**Wendy Bohrson** studies young volcanic systems in the United States and Italy. She and her students characterize magma storage and transport systems by developing and applying quantitative models that predict changes in composition as magmas experience processes such as fractional crystallization, magma recharge, and crustal assimilation. The models take into account mass and energy conservation, and thus provide key information about how magma and surrounding crust thermally and chemically evolve. A second research thrust involves textural and in situ chemical studies of volcanic rocks to document what diverse crystal populations tell us about crystal + melt residence times and aggregation histories, and magma reservoir location and geometry.

Bohrson received a BS in geology and biology from Stanford University and a PhD in geology from University of California (UC), Los Angeles. Her postdoctoral experience at UC Santa Barbara included fellowships from the UC President's Office and the US

National Science Foundation (NSF). She is currently professor and former chair in the Department of Geological Sciences, Central Washington University, where she teaches petrology, volcanology and introductory classes and does research with undergraduate and graduate students.

Bohrson joined GSA in 1988 and is also a member of IAVCEI, AGU and MSA. She is currently an editor for *Journal of Petrology*, was on the editorial board of *Lithos* from 2005 to 2012, and was an associate editor for *American Mineralogist* from 2000 to 2004. She has served as an NSF panel member, as the nominations chair for the VGP section of AGU, as an MSA councilor and as a member of GSA's Annual Program Committee. She was co-chair of the 2011 GSA Rocky Mountain/Cordilleran Section meeting, held in Logan Utah.

Bohrson is enthusiastic about serving as second vice chair for MGPV and looks forward to working with other officers, adhering associated society representatives, and MGPV members. She has been on the MGPV management board as the MSA liaison since the division was established and hopes to contribute to strengthening MGPV by advocating for diverse, high quality scientific sessions, field trips and short courses at GSA meetings and representing the division's interests within the broader GSA structure. She is also interested in continuing to develop strong ties with other divisions and with the adhering associated societies and hopes to strengthen the division's financial position through collaboration with the GSA Foundation.

Dr. Wendy A. Bohrson, Dept of Geological Sciences, Central Washington University, 400 E University Way, Ellensburg, WA 98926-7418, USA. Ph: +1 (509) 963-2835, fax: +1 (509) 963-2821, e-mail: bohrson@geology.cwu.edu, homepage: <http://www.geology.cwu.edu/facstaff/wendy/>

### **For Office of Secretary-Treasurer (2 year term)**

**J. Alex Speer**, BS 1970, Franklin and Marshall College, MS 1973 and PhD 1976, Virginia Polytechnic Institute and State University. Previous positions: Manager of Research and Development Electro-Tec Corporation, Asst. Prof. North Carolina State University. Dr. Speer is currently Executive Director of the Mineralogical Society of America, Chantilly, VA. He is an MSA Fellow and is a member of GSA, AGU, and the Geological Society of Washington. His research interests have included mineralogy, igneous and metamorphic petrology, radon hazards, low-temperature geothermal energy resources, electrocrystallization, and tribology. Geologic areas of interest included the Nain anorthosite complex, Labrador and the 300 Ma granites of the southeastern United States. Dr. Speer has served on the Steering Committee and Board of Directors of GeoScienceWorld, and is MSA's representative to GSA and AGI. His priorities is the efficient running of MGPV so that members can focus on organizing and supporting sessions, field trips, and other Division events at the annual and section meetings, and to promote collaboration among the MGPV Division, MGPV-related Associated Societies, and GSA Sections and other Divisions.

Dr. J. Alex Speer, MSA Executive Director, Mineralogical Society of America, 3635 Concorde Pkwy Ste 500, Chantilly VA 20151-1110 USA, Tel: +1 (703) 652-9950, Fax: +1 (703) 652-9951m E-mail: jaspeer@minsocam.org, website: www.minsocam.org

### **Division Bylaws Amendments:**

The Division Management Board is requesting to add a Student Representative to the Division Management Board in order to engage students in Management Board activities and to advise on outreach to a student and young audience, including social media. This requires two bylaw changes:

#### ARTICLE II Membership

##### **From:**

2. *Management Board Composition.* The management board shall consist of both elected and appointed individuals. The elected individuals are the officers elected by the individual members of the division. These are the chair, first vice-chair, second vice chair, secretary-treasurer, and immediate past chair of the division. The appointed individuals are (a) the representatives from each Adhering Associated Society appointed by those Societies and (b) the Geological Society of America Council liaison to the division, appointed by the Geological Society of America.

##### **To:**

2. *Management Board Composition.* The management board shall consist of both elected and appointed individuals. The elected individuals are the officers elected by the individual members of the division. These are the chair, first vice-chair, second vice chair, secretary-treasurer, and immediate past chair of the division. The additional individuals are (a) the representative from each Adhering Associated Society appointed by those Societies, (b) the Geological Society of America Council liaison to the division, appointed by the Geological Society of America, and (c) a student representative, elected by the Division or appointed by the Division Management Board.

#### ARTICLE V Powers and Duties of the Management Board and Officers

##### **Add:**

9. *Student Representative, Ex-Officio.* The Division may elect, or the Management Board may nominate and appoint, a student representative as an ex-officio non-voting member of the Division Management Board. The student can be an undergraduate or graduate student. The student representative shall advise on matters concerning GSA student and early career issues, as well as Division outreach to a young audience including social media. The student representative shall serve a two-year term.

## MGPV Elections

### MEMBERS OF GSA MINERALOGY, GEOCHEMISTRY, PETROLOGY, AND VOLCANOLOGY (MGPV) DIVISION Ballot for 2014 - 2015 Officers MGPV Division

Vote by completing the section at the bottom and mailing it to GSA postmarked no later than August 31. Biographical information on the candidates is on the previous page.

Balloting will be **open through September 5**. Ballot link to vote through on-line system:

<http://rock.geosociety.org/ballot/vote.asp?Name=mgpv>

Access the online ballot by using either your GSA member number or your e-mail address that is in your GSA member records. For membership assistance, please contact GSA at: [gsaservice@geosociety.org](mailto:gsaservice@geosociety.org) or call (888) 443-4472. You may also submit your ballot by Fax: (303) 357-1074.

#### **Division Officers:**

The officers of the MGPV Management Board changes yearly after the Division Annual Business Meeting. Elections are held over 30 days annually for the position of Second Vice Chair and biennially for the position of Secretary-Treasurer. According to the Division By-Laws, the current Division Chair (**Eric H. Christiansen**) will advance to the office of Past Chair, the current Division First Vice-Chair (**Diane Ruth Smith**) will advance to the office of Chair, and the current Second Vice-Chair (**Yildirim Dilek**) will advance to the office of First Vice-Chair. Below is the ballot to elect a new Second Vice-Chair. The Secretary-Treasurer (J. Alex Speer) has completed his second 2-year term.

Second Vice-Chair (one-year term):

( ) Wendy Bohrson

( ) Write-in \_\_\_\_\_

Secretary-Treasurer (two year term):

( ) J. Alex Speer

( ) Write-in \_\_\_\_\_

#### **Division Bylaws Amendments:**

The Division Management Board is requesting to add a Student Representative to the Division Management Board in order to engage students in Management Board activities and to advise on outreach to a student and young audience, including social media. This requires two bylaw changes:

ARTICLE II  
Membership

#### **From:**

2. Management Board Composition. The management board shall consist of both elected and

appointed individuals. The elected individuals are the officers elected by the individual members of the division. These are the chair, first vice-chair, second vice chair, secretary-treasurer, and immediate past chair of the division. The appointed individuals are (a) the representatives from each Adhering Associated Society appointed by those Societies and (b) the Geological Society of America Council liaison to the division, appointed by the Geological Society of America.

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## ARTICLE V

## Powers and Duties of the Management Board and Officers

**Add:**

9. *Student Representative, Ex-Officio.* The Division may elect, or the Management Board may nominate and appoint, a student representative as an ex-officio non-voting member of the Division Management Board. The student can be an undergraduate or graduate student. The student representative shall advise on matters concerning GSA student and early career issues, as well as Division outreach to a young audience including social media. The student representative shall serve a two-year term.

- ( ) Vote Yes to approve this addition  
 ( ) Vote No to disapprove this addition

**Mail Ballot To:** Division Office, Geological Society of America  
 PO Box 9140, Boulder, CO, 80301-9140

You must complete the following section to validate your ballot:

**Your Name** (printed) \_\_\_\_\_

**Your Signature** (required) \_\_\_\_\_

**Your GSA Member Number** \* (required) \_\_\_\_\_

\* Your 7 digit GSA member number is on the top right corner on the external mailing label. If you need assistance with your member number, call: (888) 443-4472