

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

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Message from the Chair

I hope your 2016 has been off to a great start. The Joint Technical Program Committee (JTPC) worked hard during the past month to go through a large number of technical session and workshop proposals for the 2016 GSA Annual Meeting in Denver, and streamlined them for a very diverse and exciting program. I am delighted to report that our MGPV Division and its Adhering Societies will be sponsoring 58 technical sessions in Denver 2016. I thank all of you who put together exciting session proposals and sought for MGPV sponsorship for them. This number is almost the same as we had in Baltimore 2015 last fall (62). The electronic abstract submissions form will be activated around the first of April. So, please make sure to encourage your colleagues to submit their abstracts to your MGPV – sponsored sessions before the deadline of July 12th.

At last year's meeting in Baltimore, the MGPV and its members had a distinct honour of presenting the division's sixth Distinguished Career Award to *Dr David A. Clague* of Monterey Bay Aquarium Research Institute in CA for his outstanding contributions in a

wide range of disciplines, encompassing petrology, geochemistry, volcanology, geochronology, and geomorphology and climate. The first ever MGPV Early Career Award was also awarded to *Dr Frances Elaine Jenner* of the Open University, Milton Keynes, UK, for her novel analytical work on igneous rocks from a wide range of temporal and geographical areas, including the Eoarchaeon. We wish Dr. Jenner much success in her future endeavours. Our division's strength is aptly reflected by the high-quality science conducted by its student members. In 2015 we were able to increase the number of student awards from four to six with the help of the James B Thompson Fund of the GSA Foundation. We congratulate John Wesley Buchanan (Colorado School of

Mines), Nicholas Paul Levitt (University of Wisconsin, Madison), Chelsea Mackaman-Lofland (University of Texas Austin), Madison Myers (University of Oregon), William O. Nachlas (University of Minnesota) and Demian Nelson (University of California, Santa Barbara) for receiving the MGPV Division Student Research Awards!

I look forward to celebrating at GSA-Denver the recognitions of *Dr. Don Swanson* (U.S.G.S., Hawaiian Volcano Observatory, Hawaii), and *Dr. John Cottle* (University of California, Santa Barbara), as the MGPV 2016 Distinguished Geological Career and Early Career Awardees, respectively. Please join us in the technical session, “*Field Geology to Inform Volcanic Processes: A Tribute to the Distinguished Career of Don Swanson*”. We will have our Division reception, jointly with the Mineralogical Society of America and the Geochemical Society, on Tuesday, September 27th (5:45–7:45 PM). Please plan on attending this joint reception to congratulate Don, John and our student research grant awardees.

MGPV currently has 2,256 members, attesting to its disciplinary strength within the GSA. But, we can do better with your encouragement of your students and colleagues to join in. We can also use your volunteer work and service in a number of divisional committees, and your nominations of deserving colleagues for the divisional awards; please see the relevant information in this newsletter. Your donations to MGPV are very important for us to increase our support of student activities; so, please consider giving to your division.

The Division Chairs’ meeting of this year will be held at the GSA Headquarters in Boulder, CO, in late April, and I will be attending it on behalf of MGPV. Please feel free to contact me (dileky@miamioh.edu; 513-529-2212) with any ideas, concerns and issues you would like me to share with the GSA staff, other division chairs, and the GSA Council. Thanks for all of your support of MGPV through your membership, service on committees, donations, and organization of sessions at the annual and section meetings. Have a safe and productive summer ahead of us. I look forward to seeing many of you in Denver in late September!

Yildirim Dilek, Division Chair (2016)

Miami University, Oxford

MGPV Student Members

The Student Advisory Committee of the GSA was created to ensure that the needs of its growing student membership are met. If you are a student member, please consider taking 1-2 minutes to fill out the brief survey at:

https://docs.google.com/forms/d/1DWo5tZFoyljdl7YYgm4MP_9fvWITw_3zdMD9CMCErQ/viewform

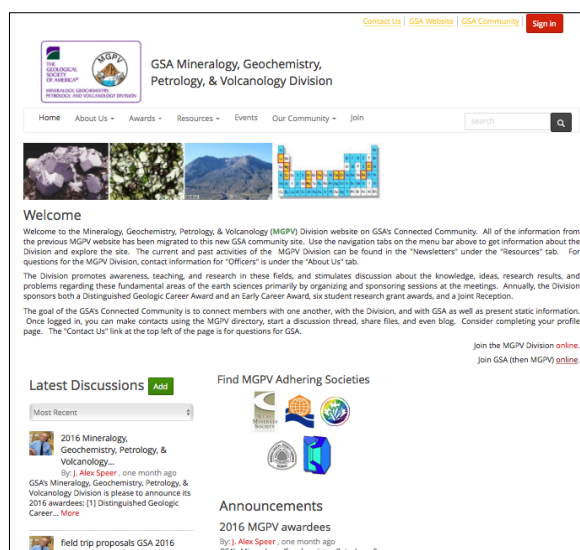
If you have any comments or questions, please feel free to contact your MGPV student representative, Tom Benson: <<mailto:trb@stanford.edu>>.

MGPV website: the GSA Connected Community

The Mineralogy, Geochemistry, Petrology, & Volcanology (MGPV) Division has a new website hosted via GSA's Connected Community. The public MGPV website is now enhanced with Division-member-only features such as a searchable Division directory, discussion group, MGPV awards, resource library, newsletter archive, and events calendar. GSA's Connected Community is a member-only, on-line community.

Explore it at <<http://community.geosociety.org/mgpvdivision/home>>.

As a member of the MGPV Division, you have been subscribed to the Daily Digest version of the MGPV Division's General Discussion Group, meaning that you will receive one e-mail every day containing all of the previous day's posts, if any. If you'd like to change that to no emails (you can view the discussion on-line but won't receive e-mail) or to real time (you will receive an email every time something new is posted), use the "My Subscriptions" link found to the right of this post or in the footer.



Giving to MGPV

Did you know that you could make a donation to the MGPV Division? To make a gift, please go to GSA Foundation's online giving page:

<<http://www.gsafweb.org/makeadonation.html>>.

Enter a donation amount and then select "Mineralogy, Geochemistry, Petrology, and Volcanology" from the "Category or Area of Interest" pull-down menu. The Division would like to increase its support of student activities.

Interdisciplinary Interest Groups (IIGs)

At the Spring 2015 GSA Division Chairs Meeting, there was concern that the differences between Divisions and newly suggested, emerging "Interdisciplinary Interest Groups" (IIGs) were not clearly articulated. The apparent similarities may potentially lead to confusion by GSA members and potential future proposers of either Divisions or IIGs. A committee was formed to provide a report on distinguishing between IIGs and Divisions.

At the Fall 2015 Division Chairs Meeting, the IIG committee proposed that Divisions be considered permanent (enduring) and represent core disciplines and stability within GSA. In contrast, IIGs are potentially transitory (reactive), depending on their purpose and mission. IIGs are formed to either integrate across geological core disciplines or to address specific scientific concepts or questions that otherwise cannot be easily addressed within Division structures. For many the differences between Divisions and IIGs are still unclear. The Division Chairs recommend that Council postpone the establishment of any new IIGs until there is greater clarity regarding their purpose and operation. GSA Council had voted in favor of establishing the "International IIG" and believes that its approval was too far along to hold up, but GSA Council agreed not to move forward with any other IIGs until there is greater clarity on IIGs and how they differ from Divisions.

Call for Award Nominations: Nomination Deadline: 15 July 2016

MGPV Division Distinguished Geological Career Award

The MGPV Distinguished Geological Career Award will go to an individual who, throughout his/her career, has made distinguished contributions in one or more of the following fields of research: mineralogy, geochemistry, petrology, volcanology, with emphasis on multidisciplinary, field-based contributions. This award emphasizes a geological and multidisciplinary approach. Geological work is by nature general and has an important field component, with Earth as the natural laboratory. Nominees need not be citizens or residents of the United States, and membership in the Geological Society of America is not required. The award will not be given posthumously.

The Award: Consists of Fellowship in GSA, a wall plaque, a \$1,000 cash award, and some travel assistance. The Award will be presented at the Division reception at the 2017 Annual Meeting of the Geological Society of America, with a brief (5 minute) citation from the nominator, followed by a brief (5 minute) acceptance speech by the awardee.

MGPV Division Early Career Award

The MGPV Early Career Award will go to an individual near the beginning of his/her professional career who has already made distinguished contributions in one or more of the following fields of research: mineralogy, geochemistry, petrology, volcanology, with emphasis on multidisciplinary, field-based contributions. This is a new award that was generously endowed by the estate of James B. Thompson Jr., who believed in the importance to geology of understanding minerals - both their internal characteristics, and their external "social lives" (his term for their relations with each other). This award emphasizes a geological and multidisciplinary approach. Geological work is by nature generalistic and has an important field component, with Earth as the natural laboratory. J. B. Thompson's work, regardless of subject, was always based on solid field observations. In his acceptance speech for the Day Medal in 1964 he said, "*True success in the laboratory should stimulate field investigations rather than discourage them. It would be embarrassing indeed if we were to construct an internally consistent*

geology, chemically and physically sound, perfect in fact but for one flaw: the lack of a planet to fit it."

The individual must either be [1] before the age of 36 or [2] within 7 years of the awarding of the terminal degree. If the former, the candidate must be 36 or less on January 1 of the year the award is decided. If the latter, the award must be decided prior to December 31 of the seventh year past the terminal degree. These time limits for the award can be extended for up to two years based on circumstances that have interrupted the nominee's career (i.e., serious illness, child birth, care giver, etc.). Nominees need not be citizens or residents of the United States, and membership in the Geological Society of America is not required. The award will not be given posthumously.

The Award: Consists of a wall plaque, a \$1,000 cash award, and some travel assistance. The Award will be presented at the Division reception at the 2017 Annual Meeting of the Geological Society of America, with a brief (5 minute) citation from the nominator, followed by a brief (5 minute) acceptance speech by the awardee.

Nomination Procedure for either award

Nominations will be from the Division membership at large, and should consist of:

- (1) A nomination letter from an MGPV Division member, no longer than 3 pages, summarizing the nominee's most important accomplishments in geological approaches to mineralogy, geochemistry, petrology, and/or volcanology. Special attention should be paid to describing how the nominee's published work demonstrates field-based multidisciplinary geological accomplishments of a groundbreaking nature. The letter should include the name, address, and contact information of the nominator as well as those from whom letters of support can be expected.
- (2) Curriculum Vitae of the nominee.
- (3) An additional three letters of support. These letters of support may be submitted by anyone, membership of GSA or the MGPV Division is not required.

Nominations should be forwarded to the Division Secretary-Treasurer, J. Alex Speer at: jaspeer@minsocam.org

Dossiers of nominees who did not receive the award in any given year will be retained and considered for two succeeding years (as long as the eight-year time limit continues to be met); thus, nominations are active for a total of three years even if not updated or re-submitted. Updated information or resubmitted nominations for such candidates may be sent to the Division Secretary-Treasurer during subsequent calls for award nominations for consideration beyond that time.

2015 MGPV Division Distinguished Geological Career Award to *David A. Clague*: Citation and Acceptance

Citation: By Wendy Bohrson and Jackie Dixon

We are pleased to honor Dr. David A. Clague of the Monterey Bay Aquarium Research Institute as the 6th recipient of the MGPV Distinguished Geological Career Award. Dave's career has been extraordinary, marked by hundreds of high-quality, data-intensive publications that combine field and analytical constraints to address questions in such wide ranging disciplines as petrology, geochemistry, volcanology, geochronology, geomorphology and climate.

Dave's multi-disciplinary approach has led to a series of fundamental contributions. Among the most important of these are his discoveries on the Hawaiian-Emperor Seamount Chain, including the time-transgressive nature of eruption along the chain, the evolution of Hawaiian volcanoes from the pre-alkalic to rejuvenated stages, and the existence of giant landslides on the seafloor. Dave also has a distinguished history of research on mid-ocean ridges, including his work on strombolian eruptions that challenged accepted dogma that MOR eruptions were limited to effusive discharge of pillow lavas and sheet flows.

Dave sees scientific opportunity in the most unlikely of places. For example, while focused on collecting basalt over his ~40-year career, he also saved the coral "by-catch", and is now using these samples to investigate climate, sea level, and glacial cycles. This encapsulates Dave's creative and remarkable scientific career...trained as a basalt petrologist and now engaging in climate studies using coral.

Dave remains one of the most enthusiastic people we know. His personal and intellectual generosity has resulted in a long list of collaborators, including co-nominators Fred Frey, Jim Moore and Mike Perfit, and also his daughter Gillian. Both of us had the good fortune to work with Dave early in our careers. He treated us as colleagues from our first meeting and was unwavering in his support for us as scientists. We benefited from the high standards he placed on us to be tough, thorough field geologists at a time (years ago!) when women were not as commonly seen in field geology positions.

We are honored to have Dave as a colleague. We are also very pleased that he was surprised when Diane Smith, Chair of MGPV, called him to tell him he was the 2015 recipient. As he admitted, he was speechless—this is also a remarkable feat!

Acceptance: By David A. Clague

I want to thank my co-nominators Wendy Bohrson and Jackie Dixon for their kind and supportive words. I have been a most fortunate scientist throughout my career. That good fortune begins with my wife of nearly



45 years Andrea and our daughter Gillian, who have listened to (and seen) much more geology than they like to think about, but still stuck by me and supported me, moved from California to Vermont and to Hawaii, and have tolerated my fascination with roadside outcrops.

My enthusiasm for science blossomed while an undergraduate at U.C. Santa Barbara where a remarkable faculty taught me the wonders of geology. Bob Webb in his role as department undergraduate advisor induced me to switch from studying physics to geology. At Scripps Institution of Oceanography, faculty, postdocs, and fellow graduate students were exploring and defining the basics of sea-floor spreading and how plate tectonics worked. Every cruise brought back new insight into the processes that shaped the Earth. The environment of discovery was electrifying and launched my research career. Advisors Jerry Winterer and Jim Hawkins provided many opportunities for a young scientist to spread his wings. My enthusiasm for research has never faded and has been shared with, or inflicted on, colleagues, employees, postdocs, and graduate students I have worked with since.

Each of my employers offered me opportunities to pursue what I thought were important scientific questions. A postdoc at the U.S. Geological Survey with Dale Jackson and Brent Dalrymple was followed by four years of teaching undergraduates at Middlebury College where Brewster Baldwin taught me about teaching and research, especially to speak to and write to as broad an audience as possible. Following a Deep Sea Drilling leg to the Emperor Seamounts, I returned to the USGS as a research geologist in Pacific Marine Geology. There I explored mid-ocean ridges and seamounts to compare to submerged Hawaiian volcanoes.

The Volcano Hazards Program supported me as I learned to reconstruct the history of on-land volcanoes, which provided a much-needed perspective to understanding submerged Hawaiian volcanoes. Wendy and I were in Hawaii doing fieldwork in 1984 when Mauna Loa erupted. My interest in the Hawaii-Emperor volcanic chain was renewed by seafloor sonar mapping of the seafloor around Hawaii. Pete Lipman offered me the position of Scientist-in-Charge of the Hawaiian Volcano Observatory. It was here that I realized that volcanic hazards and processes could only be understood in the context of the long-term evolution of volcanoes.

I joined the Monterey Bay Aquarium Research Institute in 1996 with the goal of unraveling the history of submarine volcanoes to understand how or if they differed from subaerial ones. I have been there ever since. The Institute was growing rapidly, their mission to merge technology and science, and their focus on developing remotely operated vehicles (ROVs) as research tools were irresistible. Dave Caress has taught me about seafloor mapping and I have merged the high-resolution mapping done using autonomous vehicles with targeted sampling from ROVs to study explosive submarine eruptions, and the geological history of submarine volcanoes.

Colleagues Brent Dalrymple, Fred Frey, Jim Moore, and Brian Cousens have been long-term collaborators on numerous studies. I have enjoyed these long-term

relationships and learned from them all. I have been fortunate in having postdocs Doug Wilson, Jennifer Reynolds, Jody Webster, Brian Dreyer, and Ryan Portner to teach me new ways to look at the world. My good fortune extended to people I supervised, including both Wendy and Jackie, but especially Alice Davis and Jennifer Paduan, who each worked with me for more than 15 years and became partners in my research. These and many other colleagues and graduate students from the US and abroad have taught me new things and kept me young and my spirits high.

2015 MGPV Division Early Career Award to *Frances Elaine Jenner: Citation and Acceptance*

Citation

Dr. Jenner of The Open University, Milton Keynes, United Kingdom, is an analytical geochemist pioneering several novel analytical techniques and applying them to igneous rocks from wide temporal and geographical ranges. Dr. Jenner is unusual in having both the analytical skills to devise new approaches and the intellectual agility to find entirely new geological interpretations, which were not even part of the debate before her studies were carried out. Her ability to generate novel, high-quality data has allowed her and her colleagues to overturn previous assumptions or hypotheses about a variety of igneous processes, giving us a better understanding of mafic volcanism over the last 3.8 billion years of Earth history.

While she collaborates extensively with experimental petrologists, Dr. Jenner mostly analyses natural samples of diverse provenance. Working from the Greenland Eoarchean to modern submarine volcanics, her areas of study span more than 95% of the terrestrial rock record in geologic time. Her onshore field areas range from the periglacial west coast of Greenland to tropical Samoa. While ocean drilling programs do not fit the stereotypical mold of outcrop hammering and rock licking, they are none-the-less the only way we currently have of accessing ~70% of our planet's surface that is under water. And it is her ability to choose the right sample or samples for her new analytical methods that allows her to discover novel petrologic processes.

Upon the completion of her PhD on the nature of Eoarchean rocks, Dr. Jenner branched out into the quantification of "less commonly analyzed elements" in volcanic glasses. One such element is selenium. In theory, selenium should be a useful proxy for sulfur in systems (such as volcanic glasses) that may have undergone partial degassing. But there was no standard analytical protocol for measuring this low-abundance chalcogenide in silicate materials. She and her colleagues devised an analytical protocol to routinely measure selenium using LA-ICPMS. The use of the relatively cheaper, versatile LA-ICPMS equipment meant that selenium contents of target glasses and minerals could be determined along with other elements of interest in a whole-scale manner much more economically than the use of other techniques.

While an analytical specialist may have been content to do this without too much thought to the geologic implications, Dr. Jenner and her colleagues immediately put it to use in investigating the enrichment of Cu, Ag, and Au in arc-related magmas and showed that magnetite crystallization triggers sulfide saturation by changing magmatic fO_2 .

The use of higher-quality data to reject long held but data-poor assumptions is a hallmark of Dr. Jenner's research. Although she has continued to analyze selenium for the purpose of constraining sulfide saturation and chalcogenide behavior, her next major achievement was to roll out the same approach to the rest of the periodic table and a wider variety of sea-floor volcanic glasses. Applying these techniques to hundreds of ocean-floor volcanic glasses, her work yielded a rich, high quality dataset that showed that the mid-ocean ridge fractional crystallization models needs refinement.

Acceptance: By Frances Jenner



I would like to thank the GSA and the MGPV Early career award committee for honoring me with this award and to Diane Smith, who took the additional time to confirm that she had not made a mistake by emailing the wrong person. I would also like to say a big thank you to Erik Hauri, Rick Carlson, Greg Yaxley and Bill McDonough for their nomination letters and to Chuck Magee for co-ordinating the submission. I am still a bit shocked but very grateful that they would go to this effort.

I would not be here to receive this award if it were not for all the support that I have received over the years. Firstly, a big thank you to the research, technical and administration staff at Oxford Brookes University, where I did my undergrad and at the ANU, where I did my PhD. Particular thanks go to Gregg Yaxley, Vickie Bennett and Allen Nutman, who supervised and supported me through my PhD.

After my PhD, I continued to work at the ANU in the LA-ICP-MS lab as technician and later as a postdoc with John Mavrogenes and Richard Arculus, who helped me realise how much I love basalts and selenium. As a hobby, I started collaborating on a project with Hugh O'Neill. Teaming up with someone as inspiring as Hugh made me realise what I wanted to achieve as a scientist. The papers that we published demonstrate what happens when two people with basalt-related OCD end up working together.

After a nearly two-year stint working at the Institute for study of the Earth's interior in Japan, I went to work at the Department of Terrestrial Magnetism. I was lucky enough to have Erik Hauri as a mentor, who taught me heaps about science and tried, in vain, to refine my social skills. DTM is Disneyland for Geochemists. It is impossible not to

achieve a lot when you have daily interactions and support from people like Erik Hauri, Steve Shirey, Rick Carlson and the other staff scientists at DTM. Thank you.

I have now landed myself in my dream job at the Open University, which, despite being located in Milton Keynes, is a brilliant place to work. Like too many women in science, as evidenced by the recent press, I found myself over the last 16 months dealing with problems that have made it very difficult for me to progress in my career. Hence, I would very much like to dedicate this award to my current boss Simon Kelley, and to Erik Hauri, Lindy Elkins-Tanton, Diana Roman, Janne Blichert-Toft, and in particular Tim Elliott, who have taught me that leading scientists in our community are not only there to give academic support, but in times of crisis can also be the fiercest of friends. Without their support, I would not have had the confidence to attend today, so I would like to say a huge thank you to them. They are a credit to our community, so any applause goes to them.

In closing, I would like to thank again the organizers of this year's GSA meeting and MGPV once again for this award, it means a lot to me, so thank you.

2016 MGPV Division Distinguished Geological Career Award to Don Swanson

The MGPV Division is pleased to announce that Don Swanson, U.S. Geological Survey, Hawaiian Volcano Observatory, Hawaii National Park, HI, United States is the 2016 Distinguished Geologic Career Awardee. The award will be presented during the 2016 GSA Annual Meeting, Denver, CO.



As a field-focused geologist, Dr. Swanson combines both strong disciplinary impact in igneous processes and volcanic hazards with unusually passionate public outreach. USGS employees, particularly field-based researchers, rarely achieve the same impact in the literature as their academic counterparts, yet Swanson's publication record is outstanding, and his work has significantly directed volcanic hazards policy. The average citizen may well have benefited more from Dr. Swanson's scientific activities than from many others.

2016 MGPV Division Early Career Award to John M. Cottle



The MGPV Division is pleased to announce that John M. Cottle, *Department of Earth Science & Earth Research Institute*, University of California, Santa Barbara, CA, United States is the 2016 Early Career Awardee. The award will be presented during the 2016 GSA Annual Meeting, Denver, CO.

Dr. Cottle was selected because of the broad range and high degree of innovation demonstrated by his published research and by his impressive mix of field and laboratory research. Dr. Cottle has also helped to develop new analytical tools and then apply them to key field-based problems. In his relatively young career, he has already influenced a generation of geoscientists.

MGPV at Denver GSA 2016

- *Technical Sessions.* There is a session proposed in honor of the MGPV 2016 Distinguished Geological Career awardee, “*Field Geology to Inform Volcanic Processes: A Tribute to the Distinguished Career of Don Swanson*”.



MGPV and its Adhering Societies will be sponsoring at least 58 other session proposals. The Division will have a strong presence at the GSA Annual Meeting in Denver (25 – 28 September 2016), and we invite you to join us. Submit an abstract to the session of your choice! Abstract Deadline: **12 July 2016**.

To ensure your abstract is included with other MGPV abstracts, please check the box for the MGPV Division (if you submit to a Topical Session) and/or one of the Adhering Societies (CMS, GS, MAC, MSA, MSGBI), and include mineralogy, geochemistry, petrology, and/or volcanology as keywords. Division officers are part of the committee that organizes the scientific program. By following these steps, they will have an opportunity to place your abstract in the most appropriate session.

- *Reception.* The MGPV Division will join with the Mineralogical Society of America and the Geochemical Society in a joint reception on Tuesday, 27 September: 5:45 PM-7:45 PM.

MGPV 2016 Awards. The MGPV Division's 2016 *Distinguished Geological Career* and *Early Career Award Awards* will be presented during the MGPV Reception.

MGPV Division Student Research Grants. Recipients of the student research grants recipients will be recognized during the MGPV Reception.

- *Business Meeting.* The Division will know the business meeting date and time in August. 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.

MGPV Membership and Finances

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

547	Division affiliates as of 31 December 2009
972	Division affiliates as of 30 December 2010
1,437	Division affiliates as of 30 December 2011
1,434	Division affiliates as of 30 December 2012
1,382	Division affiliates as of 30 December 2013
2,256	Division affiliates as of 30 December 2014
1,466 (1,551)	Division affiliates renewed through 2016 (yet to renew)

Please remember to renew your Division membership at GSA annual membership renewals time, and encourage your colleagues to join. If a GSA member has already renewed, they can, at any time, join the Division by filling out a form. Go to specialty divisions and then to “join a division” <<http://www.geosociety.org/members/joindiv.htm>>. Return the form to GSA or contact GSA Sales and Service; send them your member ID, name, credit card information, and the name of the Division. (It is clearly easier to join a Division at renewal time!) Division dues are: Student, Recent Graduate, or K-12 Teacher - \$5, Professional Member or Fellow - \$10; but GSA policy is that students can join their first Division at no cost.

The GSA policy wherein students can join their first Division at no cost 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 1,551 individuals with lapsed memberships, so there is room to grow.

• **Finances:** As of 12/31/2015, MGPV has a cash balance of \$20,655.50, comparable to \$20,727.95 as of 12/31/2014. The income in the last half of 2015 (GSA's and the Division's fiscal year to July 1 through Jun 30) was \$3,963.79 from dues. Expenses during this period were \$7,596.72 for student grants, and awardee & speaker travel support, \$2,200.56 for the reception (1/3 of the cost shared with GS & MSA). The cost of the two MGPV awards and four (4) of the six (6) student research grants are supported by the J B Thompson Fund outside the Division finances. We can expect some further dues income in 2016 from members who renew late. Bottom line: we have enough money in 2016 for MGPV's share of the cost of awards, reception, and to increase the number of student research grants.

MGPV Committees and Appointments

Division members help with the important tasks of the Division by serving on committees and in appointed posts. You might be asked to serve on one of them.

The ***Distinguished Geological Career Award Committee*** and the ***Early Career Award Committee*** encourage and evaluate nominations for the respective awards.

The MGPV Management Board consists of ten people, each of whom can appoint one person to serve on committee for one year. Each member of the Management Board (this includes representatives from the Adhering Societies) is entitled (but not required) to select one person to serve on this committee for one year. The Division Chair appoints one of those committee members as the chair. As noted in the piece on the award, for this year nominations are due on 15 July 2016, and the Award Committee will make its recommendation by 15 August 2016.

The ***Nominating Committee*** of the Division reports to the Management Board a list of candidates to run for office the following year. The Nominations Committee makes a public call for either volunteers or recommendations to be considered for the open positions of second vice-chair and/or secretary-treasurer. The Committee can also identify possible candidates for office on their own. Additionally nomination of a candidate to become a Division officer also may be made to the Division Secretary-Treasurer by any four voting affiliates of the division in good standing who also verify that the candidate is qualified and willing to serve in that office. This candidate's name will be forwarded to the chair of the Nominations Committee in time for inclusion in their report to the Management Board.

From the pool of candidates, the Nominations Committee will select a single candidate for each open office by majority vote. In a written report, the Nominations Committee will inform the Management Board of the vote, include the list of individuals considered, and the curriculum vitae. When approved by the Management Board, the nomination(s) shall become the election slate. The membership will be asked for a vote of confidence for the candidates of all open offices. In the event that the vote of confidence fails, the second candidate on the list will stand for a vote of approval or non-approval.

Voting takes place during August, and officers will be inducted at the annual business meeting in the fall (northern hemisphere). For this to happen, the committee needs to be in place by April 1 and the slate submitted to GSA by July 1.

The ***Program Committee*** is a standing committee. It plans and arranges for the technical sessions and symposia of the division at the Annual and Sectional Meetings of the Geological Society of America, and other external meetings as may be directed by the management board.

MGPV Voting

- ***Election 2015.*** 192 Division members voted during August 2015. Anita Grunder was elected Second Vice-Chair. Wendy Bohrson moves to the position of First Vice-Chair, Yildirim Dilek to Chair, and Diane Smith to Past-Chair.

- ***Election 2016.*** The MGPV Management Board changes yearly after the Division Annual Business Meeting at the GSA Annual Meeting. Elections are held over 30 days during the summer (northern hemisphere), for the position of Second Vice Chair and biennially for the position of Secretary-Treasurer. The positions of Past Chair, Chair, and First Vice-Chair are filled in succession by the individuals from the preceding office. The election will also be the time when members are asked to approve any Bylaw changes. The election of Division officers only requires that the Secretary-Treasurer notify GSA of the results. Any Bylaws changes must be submitted for GSA Council approval a month before a GSA Council meeting.

The election for 2016 will be for Second Vice-chair and Secretary-Treasurer. For members who have given GSA their e-mail addresses, voting is online. The message

notifying you that voting is open will contain the necessary USERID and password for you to do so. Members who do not have internet access will receive a paper ballot through the US mail from GSA.

Announcements from Adhering Associated Societies

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



- The **Mineralogical Association of Canada (MAC) Annual Meeting** is 1-3 June, 2016, Whitehorse, YK, Canada. This is part of the Joint Assembly Meeting of The Geological Association of Canada (GAC) and Mineralogical Association of Canada (MAC). More information and online registration at:
<<http://whitehorse2016.ca>>

- Mineralogical Association of Canada (MAC) latest publication is Special Publication 11 Atlas of Ore Minerals Focus on Epithermal Deposits of Argentina By Werner H. Paar, Milka K. de Brodtkorb, Hubert Putz, Robert F. Martin
<http://www.mineralogicalassociation.ca/index.php?p=5&page=special_publications.php-SP11>.

- Mineralogical Association of Canada will award two \$5000 scholarships to graduate students yearly, one to a student enrolled in an MSc program and one to a student in a PhD program. Students entering the second year of an MSc program or the second or third year of a PhD program at a Canadian university are eligible as well as Canadian citizens enrolled in mineralogy, crystallography, geochemistry, mineral deposits, petrology or equivalent programs at any university. The deadline to apply is May 13, 2016. More information at <<http://www.mineralogicalassociation.ca/index.php?p=60>>



- **Goldschmidt 2016**, 26 June - 01 July 2016 • Yokohama, Japan
<<http://goldschmidt.info/2016/>>. Registration and accommodation forms are now live on the conference website. End of early registration is 26 April 2016

- The **Clay Minerals Society (CMS) 53rd Annual Meeting** is 5-8 June 2016 in Atlanta, Georgia, USA. More information and online application on the CMS website, <<http://www.clays.org>>.



- The Mineralogical Society of America (MSA) invites applications for the **2017 MSA Grant for Research in Crystallography** and for the **2017 MSA Student Research In Mineralogy and Petrology**. There are up to five research grant awards of \$5,000 each. Application deadline is 1 June 2016. 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>>.



- Mineralogical Society of America (MSA) and Geochemical Society (GS) **Short Course on Measurements, Theories and Applications of non-Traditional Stable Isotopes**. Organized by Fang-Zhen Teng, James Watkins, and Nicolas Dauphas is 9-11 December 2016; immediately before the 2016 Fall AGU meeting.

- MSA offers a distinguished lecture program to schools that normally do not have the opportunity to hear presentations about recent advances in mineralogy. MSA pays travel expenses of the Lecturers if the host institution is responsible for local expenses, including accommodations and meals. The **2016-2017 MSA Distinguished Lecture Program** is now available for requests. It is designed to run from late

September 2016 through April 2017. Requests received before 4 May 2016, will be given priority. Details at <http://www.minsocam.org/MSA/Lecture_Prog.html>.

• Nominations are sought for the **Roebling and Dana Medals and MSA Award**. You need not be an MSA member to nominate someone. More information and nomination procedures on the MSA home page <<http://www.minsocam.org/>>



• The Mineralogical Society of Great Britain & Ireland (MSGBI) has several meetings: 30–31 March 2016- **Geochemistry Group**, 15 March 2016- **Metamorphic Studies Group**; 21–23 March 2016- **North Atlantic Craton**

Information: <<http://www.minersoc.org/meetings.html>>.

• MSGBI offers **travel/research bursaries** directly and through its constituent special interest groups (Applied Mineralogy, Clay Minerals, Geomicrobiology, Volcanic and Magmatic Studies, Metamorphic Studies, Geochemistry, Environmental Mineralogy Group, Mineral Physics). Visit <<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>>.

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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

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