Message from the Chair

2017 promises to be an interesting year. Scientific exploration and exchange are critical to the health and welfare of Earth and its inhabitants, and GSA section meetings and the annual meeting, which will be held in beautiful Seattle (22-25 October 2017), will be premier places to engage with colleagues from all over the world. At GSA headquarters, annual meeting topical session, Pardee, workshop and field trip proposals are currently under review; thanks to everyone who submitted proposals. For the last several years, MGPV has consistently sponsored ~60 topical sessions at the annual meeting, and a quick review of the session list shows that the Seattle meeting will be a dynamic venue for MGPV disciplines. We will also have our joint MGPV-MSA reception on Tuesday, 24 October. Watch for details about sessions and other events in GSA Today, and please start planning for Seattle!

In addition to celebrating MGPV science in Seattle, we will also have the opportunity to honor two colleagues who have been awarded distinguished career awards. Professor Jon Davidson is the 2017 recipient of the MGPV Distinguished Geologic Career Award. As many of you know, Jon died in September 2015. Jon’s love of fieldwork was well known to anyone who had the good fortune to roam a volcano with him. His enthusiasm was infectious, and his contributions to students, colleagues—the entire community—will be lasting. He was a productive, creative, and collegial scientist who made fundamental contributions to our understanding of magmas and volcanoes. Jon’s passion for life was clear to all who knew him, and he is remembered not only for his scientific contributions but also because of his generosity, rollicking sense of humor, and energy. I invite all of you to join us for a session in honor of Jon and this award at the annual meeting (T153. Geochemical and Petrologic Forensics in the study of Earth’s Magmatism: A Tribute to
the Distinguished Career of Jon Davidson (1959–2016)). Please find more about Jon’s distinguished contributions below.

We will also celebrate the Early Career Awardee, Dr. Thomas Shea. Tom’s research interests are linked to the focal theme of volcanology, encompassing the study of magmas, volcanic eruptions and their products, and the evolution of volcanic constructs with time. His research combines field, experimental, petrological, and numerical methods to understand processes of magma mixing, crystallization and degassing, and their influence on eruptive behavior. You can learn more about Tom’s research below, and Tom will give a talk at the annual meeting; details about the time and place will be in the fall newsletter, so stay tuned!

As I look forward to Seattle, I think back to the 2016 Denver Annual meeting. Dr. Don Swanson, recipient of the 2016 MGPV Distinguished Geological Career Award, was honored for his many contributions to volcanology, from seminal work on Mount St Helens, to redefining the eruptive history of Kilauea, to early critical work on the Columbia River Basalts. Don was also recognized for the amazing contributions he has made to educating and inspiring the next generation of volcanologists through his many (many) geologic tours of Kilauea. It was also a pleasure to recognize Dr. John Cottle, recipient of the 2016 MGPV Early Career Award. John’s talk “Application of Single Shot Laser Ablation to Accessory Petrochronology” showcased the strides he and his colleagues are making in applying the “SS-LASS” technique to petrologic questions. The potential of this research is enormous, and I look forward to seeing what exciting contributions John will make in the coming years.

All this talk of awards, I hope, will ignite your enthusiasm about nominating a deserving colleague for an MGPV award. **The deadline for the 2018 Distinguished Geologic Career Award and the 2018 Early Career Award is March 31, 2017.** Please find details in this newsletter about the nomination procedure.

MGPV is also proud to support MS and PhD students in their research. Through funds provided by members, as well as the J. B Thompson Fund, MGPV gave six special awards to deserving students, based on review of their GSA research proposals. Congratulations to David Hernández Uribe (Central Washington University), Nikki Seymour (Colorado State University), George Reo (Northern Illinois University), Rebecca Paisley (McGill University), Andrew Harp (University at Buffalo), and Jacob Anderson (Boise State University). I look forward to hearing about the science these students have completed this past year.

Those of us who have been involved with MGPV are proud of the Division’s size and disciplinary strength. We are diverse, in all senses of the word, and it is gratifying to see MGPV science so well represented at annual and sectional meetings. While we among the larger divisions, every member makes an important contribution to the health of our Division. **I hope that you will take the time in the next few weeks to renew your GSA and Division memberships, if you have not already done so.** If you have, many thanks! I think now, perhaps more than ever, membership in scientific societies is
critical, so please encourage your MGPV colleagues to join us. Students are welcome to join!

Finally, a big thank you to the people who keep MGPV moving forward. I would like to thank Diane Smith and Thomas Benson for their years of service to MGPV. Diane brought organization and energy to MGPV, and we are a stronger Division because of her dedication. Thomas Benson also completed his stint as our student representative; Tom’s perspective was a welcome addition to our management board, and we wish him the best as he defends his PhD and starts a new and exciting stage of his career. I want to also thank Yildirim Dilek, Anita Grunder and John Shervais and the adhering society representatives, Warren Huff, Matthew Brueseke, David Fowle, and Kevin Murphy, for their service. Yildirim is now past chair, so he is still very much involved with MGPV. Anita and John, as first and second vice-chairs, are on the joint technical program committee for the Seattle meeting. Thanks in advance to them for all the work they will do organizing sessions and abstracts. A big salute goes to Alex Speer, our remarkable Division Secretary-Treasurer. Alex is the glue that holds MGPV together.

And, of course, thanks to all MGPV members who work on committees, propose sessions, nominate colleagues for awards, encourage students to become MGPV-ers, donate to the Division…. It is a pleasure to be involved with such a dynamic and energetic group of people. If you have ideas about how MGPV can better serve our community, please call or email me (bohrson@geology.cwu.edu, 509.963.2835). I welcome input. Best wishes for a productive spring and summer. I hope to see you in Seattle.

Wendy A. Bohrson, Division Chair (2017)
Central Washington University

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 generally been low. Please consider developing and submitting theme session topics for 2018 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 website: the GSA Connected Community

The Mineralogy, Geochemistry, Petrology, & Volcanology (MGPV) Division website is 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.

Call for Award Nominations: Nomination Deadline: 31 March 2017

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 2018 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 2018 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.

2016 MGPV Division Distinguished Geological Career Award to Donald A. Swanson: Citation and Acceptance

Citation By: Michael P. Poland And Bruce F. Houghton

If you looked up “field volcanologist” in the dictionary, you might find a photo of Don Swanson. His approach to understanding how volcanoes work is quintessentially scientific - that is, based on systematic observation, measurement, and the formulation and testing of hypotheses. Throughout his career, Don has steadfastly applied this methodology to address fundamental and often controversial global issues in volcanology. At the same time, Don’s research crosses disciplines with ease, developing models that explain a diversity of observations and that stand the test of time.

Don’s contributions include a number of basic insights into the science of volcanology, any one of which would be career-defining for most scientists. His work on Kīlauea’s Mauna Ulu eruption (1969–74) stands out as a masterpiece which used careful field observation to document numerous new eruptive behaviors and revolutionized ideas of magma supply and lava flow emplacement. Don then turned his attention to the Columbia River Basalts, where he employed field mapping, petrology, and paleomagnetic studies to develop the first comprehensive stratigraphy for any flood basalt province in the world.

In the 1980s and 1990s, Don’s work shifted to the Cascade Range. At Mount St. Helens, he accurately predicted over a dozen episodes of exogenous lava dome growth based on multidisciplinary observational datasets. In addition, he mapped much of the southern Washington Cascades, recognizing new volcanoes and intrusions and finding innovative science where other workers thought there was nothing. For the past two decades, Don has refocused his energy on Hawai‘i, where his detailed stratigraphic mapping, dating, and eruption modeling have led to a paradigm shift demonstrating that Kīlauea is just as explosive as it is effusive, and linking Kīlauea’s explosive deposits
with Hawaiian oral traditions (feeding his own love of language and literature).

As if this outstanding research resume weren’t enough, Don has demonstrated a commitment to training and outreach. Many professional volcanologists today were inspired by a field trip with Don, perhaps into the crater at Mount St. Helens or examining the structure and stratigraphy of Kīlauea. Don was also an early force behind the use of the Internet to spread volcanological information, including personal daily updates of activity at Kīlauea that were followed avidly by volcanophiles worldwide. It is therefore appropriate that Don was recently honored with the U.S. Geological Survey’s 2015 Eugene M. Shoemaker Award for Lifetime Achievement in Communications.

We are pleased to recognize Don Swanson as the recipient of the 2016 Distinguished Geologic Career Award from the Mineralogy, Geochemistry, Petrology, & Volcanology Division of GSA—a well-deserved honor that appropriately acknowledges Don’s creativity, commitment, and contributions to volcano science.

Acceptance: By Donald A. Swanson

Many thanks to Mike Poland for the embarrassingly generous citation, and to Mike and Bruce Houghton for nominating me for this award. That all takes a lot of work. Sorry, guys!

This is a time for reflection, even nostalgia, as I look back on a career that began in the Sputnik era. Al Schneider scribbled a note on the back of an exam paper during my junior year at Washington State College, urging me to apply to several grad schools, including Johns Hopkins. There I fell under the spell of Aaron Waters and met graduate students who have been colleagues ever since: Dick Fiske, Hans-Ulrich Schmincke, and Tom Wright. Dick’s wife, Pat, suggested that I apply for the NATO postdoc that took me to Germany, and I worked with Hans in the Canary Islands on rheoignimbrites. And, it was Tom and Dick, then at the Hawaiian Volcano Observatory, who urged me, a fledgling mentored by George W. Walker at the USGS in Menlo Park, to transfer to HVO. There, during a whirlwind 3.5 years, I developed interests in Kīlauea that remain to this day.

For much of the ’70s, Tom and I spent several months each year putting thousands of miles on my Land Cruiser, crisscrossing the Columbia Plateau trying to make sense of the remarkably continuous basalt stratigraphy. At this time, Peter Hooper was establishing an XRF facility at Washington State University and attracting good students, such as Vic Camp and Steve Reidel, to work on the basalt. We informally combined forces to produce a first cut of the stratigraphy for the entire province that forms the basis for today’s improved and expanded regional picture.

I grew up near Mount St. Helens, and Hans and I climbed it in 1963. Its unrest and ultimate eruption in 1980 proved irresistible, and I joined the group that morphed into
the Cascades Volcano Observatory. Improbably, I owe my life to the recipient of the 2013 MGVP Distinguished Geologic Career Award, Gerhard Wörner. I was hosting him as a visiting grad student (of Hans) and asked Dave Johnston to spend the night of May 17 at the Coldwater 2 observation post; I planned to replace Dave the next morning after Gerd left, but the eruption tragically intervened. Dave’s death remains a powerful stimulant for trying to understand volcanoes better. St. Helens attracted outstanding young scientists—Dan Dzurisin, Kathy Cashman, and Bill Chadwick among them—and I fed off their enthusiasm and ideas.

As the eruption waned, I looked toward the surrounding Tertiary Cascades as a huge area that needed field study. In 1990 I transferred to the USGS office at the University of Washington to be around students and faculty interested in Tertiary problems. Geologic maps of nine 7.5-minute quads resulted from what I consider to be my best field work. One map remains unpublished, and I hope that the Goat Rocks volcano gets its just due with the research under way by Kellie Wall and Anita Grunder.

Dick Fiske suggested that I apply for the position of scientist-in-charge at HVO, Bob Tilling selected me, and my recently deceased wife, Barbara, and I made our final career move in late 1996. I followed in the SIC footsteps of Tom Wright and Dave Clague, last year’s MGVP Distinguished Career Award recipient. I joined forces with Dick and Tim Rose of the Smithsonian to study Kīlauea’s explosive past, and this study accelerated when Bruce Houghton moved to the University of Hawai‘i.

The USGS gave me freedom to pursue what I wanted. Now, as my career winds down, I’m frantically trying to pay back that virtual IOU by completing work on the explosive cyclic history of Kīlauea. This is serious business, because of both its intrinsic interest and its societal importance in terms of hazards and the economic consequences of a frequently exploding Kīlauea.

Thank you all for the great honor, and a special thanks to my Hopkins friends who, over the past 56 years, have lifted me onto their shoulders.

2016 MGPV Division Early Career Award to John M. Cottle

John M. Cottle, Department of Earth Science & Earth Research Institute, University of California, Santa Barbara, CA, United States is the 2016 Early Career Awardee presented at 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.

Dr. Cottle is a leader in the development of novel laser ablation inductively coupled mass spectrometry (LA-ICPMS) measurements and their application to tectonic questions related to convergent orogens. This is unusual in that most pioneers of new mass-spectrometry techniques are laboratory based, and most workers at the forefront of tectonics are field based; John combines both to an impressive degree. Novel Mass-Spectrometry Techniques LA-ICP-MS have revolutionized geochemical data collection over the last decade or so by enabling subgrain sampling of isotopic ratios and elemental abundances. Cottle has been at the forefront in this area by pioneering three breakthrough measurement methods.

Currently, most U-Pb and Th-Pb laser-ablation analyses use 20-30 seconds of lasing - typically 80-200 pulses - to ablate a 5-10 μm deep hole. Cottle’s single-pulse laser ablation chronology instead uses a single laser pulse. This has two key advantages: it dramatically increases sample throughput, enabling very large numbers of grains to be dated, and it uses only ~1% of the mineral. The breakthrough behind this advance lies in integrating the entire peak shape, rather than measuring just peak height. Cottle’s groundbreaking paper describing this novel approach was awarded the New Wave Research Laser Ablation Prize for “the most original and novel work using laser ablation in analytical chemistry.”

Subsequently John and his colleagues extended this method to single-pulse depth-profiling of zircon, monazite, titanite and rutile. Conventional laser-ablation depth profiling is based on 20-30 seconds of continuous ablation, leading to smearing of the profile and an inability to precisely quantify steps or reversals in mineral zoning. Cottle’s pioneering method provides two orders of magnitude increase in resolution by analyzing each 50-100 nm thick layer of crystal individually.

Cottle was also instrumental in the development of laser ablation split-stream petrochronology. This new technique uses two ICP mass spectrometers for simultaneous measurement of a laser stream, enabling simultaneous isotope-isotope or isotope-element measurements. This breakthrough came from the realization that flow of particles into the two spectrometers could be controlled quite effectively by modulating the carrier gas flow and that ionization efficiency of the coupled mass spectrometers is only slightly reduced. This method is exploding in usage. Most popular is the simultaneous measurement of U/Th-Pb dates and petrologically informative elements like Ti, Zr, REE, etc. from the same mineral volume to allow dates to be tied closely to petrologic processes. More specialized applications include simultaneous U/Th-Pb dates and Nd or Hf isotopic ratios from the same spot in a crystal.

Cottle’s process-oriented research focuses on rare-earth-element mineralization, alkaline magmatism in arcs, and the major processes responsible for the formation of contractional orogenic belts. He combines field and laboratory structural and petrological measurements very effectively with petrochronologicaly techniques outlined...
above. For example, his work in the Himalaya quantitatively evaluates competing geodynamic models and explores the dynamic feedbacks among metamorphism, melting and deformation. He has made important contributions on the evolution of orogen-parallel domes in southern Tibet, providing the first insight into the response of the mid- to lower- crust during a major tectonic switch from south-directed material flow to east-west extension. This finding attracted much attention in the Himalayan tectonics community, resulting in four other research groups working on this region as a result. An important discovery is that evolution of the Himalayan orogen can be split into three distinct phases: early microcontinent subduction and exhumation, mid-stage thickening of the orogenic core, and late-stage extrusion of the high-grade core. Cottle’s work on the South Tibetan Detachment system received an Elsevier “Most Cited Paper 2005–2010” award.

Cottle received his D.Phil. from the University of Oxford in 2008, following an M.Sc. and B.Sc. from the University of Otago. He has won an impressive number of awards, including the Antarctic Service Medal; Hellman Foundation award; Top-50 most cited Journal of Structural Geology articles for 2005–2010; New Wave Laser Ablation Development prize; Tony Carswell prize of the Metamorphic Studies Group; Shell Award of the Tectonic Studies Group; Mike Coward award of the Tectonic Studies Group; Bright Future Top Achiever Doctoral Scholarship; Best Poster at the Antarctica New Zealand Annual Conference; and Best Student Poster from the New Zealand Geological Society. Cottle’s research has been supported by $3.5M in research funds from the NSF and USGS. Cottle has taught undergraduate and graduate classes in Geochronology/Thermodynamics, Plate Tectonics, Optical Mineralogy, Analytical Methods, and Mass Spectrometry. He has supervised six undergraduate theses, two MS students, two PhD students, and one postdoctoral scholar; he currently mentors another two MS students, four PhD students, and two postdoctoral scholars. He has been active in professional, university, and public service. Professional service includes convening short courses at Curtin University, a GSA National Meeting and an AGU Fall Meeting; an Associate Editorship at Tectonics; serving twice on NSF panels; and reviewing manuscripts for 20(!) different journals. Public service features science-teacher education sessions at local schools, providing content to the Summer Institute for California Science, contributing scientific and logistical expertise to the Antarctic Students on Ice program, and appearing in BBC’s Educational Media Production: “Tree of Life-Exploring the Origins of Darwin’s Great Idea”.

2017 MGPV Division Distinguished Geological Career Award to Jon Davidson

The MGPV Division is pleased to announce that Jon Davidson, Durham University, Durham, United Kingdom is the 2017 Distinguished Geologic Career Awardee. The award will be presented during the 2017 GSA Annual Meeting, Seattle, WA.
Jon is renowned for integrating modern geochemical, particularly isotopic, methods with classical petrology and fieldwork at subduction zones across the world. As early as the second year of his Ph.D. at Leeds he recognized the isotopic signature of subducted sediments in the geochemistry of lavas in the Lesser Antilles. This launched a career that has established him as one of the world’s experts in subduction zone magmatism and associated volcanism. He has applied creative treatments of isotopic and trace element data to problems of magma genesis in arcs, particularly to quantify the relative contributions of crust, mantle, and lithospheric sources and the importance of open system processes in the Lesser Antilles, the Andes, Kamchatka, the western U.S., Indonesia, and New Zealand. His focus on fieldwork is demonstrated by several detailed studies of the development and evolution of individual composite volcanoes in all these locations as well as in Iran and Sudan. These detailed studies led to the recognition of the pervasive imprint that open system processes leave on arc lavas and compromises their use as samples of pure melt compositions.

2017 MGPV Division Early Career Award to Thomas Shea

The MGPV Division is pleased to announce that Thomas Shea, University of Hawaii, Honolulu, HI, United States is the 2017 Early Career Awardee. The award will be presented during the 2017 GSA Annual Meeting, Seattle, WA.

Thomas Shea is cited for using a multidisciplinary, field-oriented approach to solving earth problems with studies of minerals (e.g., plagioclase, olivine and leucite). His approach is to learn new tools (analytical, experimental and numerical modeling) and integrate them with field and imagery-based research to understanding how volcanoes work. This approach led him to collaborations with experts in structural geology, physical volcanology, experimental petrology, geochemistry, and numerical and analogue modeling to address complex geological problems. Tom is passionate in planning and executing field work to better understand crustal processes, especially those with implications for natural hazards. Volcanoes are Tom’s primary focus. He has pursued a wide spectrum of volcanology topics from debris avalanche flows and pyroclastic surges (e.g., 79 AD eruption of Vesuvius), bubble and crystal textures that strongly control the explosivity of volcanoes, experimental petrology examining crystallization rates and volatiles in felsic magmas.

MGPV at Seattle GSA 2017

• Technical Sessions Washington State Convention Center. There is a session proposed in honor of the MGPV 2017 Distinguished Geological Career awardee, Jon Davidson: T153. Geochemical and Petrologic Forensics in the study of

MGPV and its Adhering Societies will be sponsoring at least 50 other session proposals. The Division will have a strong presence at the GSA Annual Meeting in Seattle (22–25 October 2017), and we invite you to join us. Submit an abstract to the session of your choice! Abstract Deadline: 1 August 2017.

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, 24 October: 5:45 PM-7:45 PM.

  **MGPV 2017 Awards.** The MGPV Division’s 2017 *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 table in the Exhibit Hall.

**IAVCEI Scientific Assembly, August 14-18 2017**

The IAVCEI Scientific Assembly will be held at the Oregon Convention Center in Portland Oregon this summer. Meeting dates are August 14-18, with five days of scientific presentations, plenary talks, and other activities, including a mid-week field trip. There are a number of pre- and post-meeting field trips and workshops. Abstracts are now being accepted, and registration will open in early March. Please go to [http://iavcei2017.org/](http://iavcei2017.org/) for more information. We look forward to seeing you in Portland this summer.
MGPV Division Organizational Items

- **Membership.** The Division has grown rapidly since it was established in October of 2009, but has leveled off at about 2,200 members:
  
  Number
  
  547  2009 Division affiliates as of 31 December 2009
  972  2010 Division affiliates as of 31 December 2010
  1,437 2011 Division affiliates as of 31 December 2011
  1,434 2012 Division affiliates as of 31 December 2012
  1,385 2013 Division affiliates as of 31 December 2013
  2,261 2014 Division affiliates as of 31 December 2014
  2,249 2015 Division affiliates as of 31 December 2015
  2,236 2016 Division affiliates as of 31 December 2016
  1,159 2017 Division affiliates as of January 19, 2017

Starting 2014, GSA instituted a policy wherein students can join their first Division at no cost. This new policy dramatically increased MGPV membership for 2014 and 2015. 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 several hundred individuals with lapsed memberships, and so there is room to grow.

- **Finances:** As of 12/31/2016, MGPV has a cash balance of $19,170.11. Dues income received so thus far this fiscal year (GSA’s and the Division’s fiscal year to July 1 through June 30) was $3,993.86. MGPV received support from the James B. Thompson, Jr. Fund of the GSA Foundation for the 2016 Distinguished Geological Career and Early Career Awards.

Other expenses during this period were $6,112.00 for student grants, awards & awardee travel support; and $2,303.39 for the reception (1/3 of the total cost with the balance shared between GS & MSA).
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 31 March 2017, 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 2016.** 252 Division members voted during August 2016. John W. Shervais was elected Second Vice-Chair. Anita Grunder moves to the position of First Vice-Chair, Wendy Bohrson to Chair, and Yildirim Dilek to Past-Chair.

• **Election 2017.** 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 2017 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.

from the Adhering Associated Societies:

• Web listing of MGPV-related Scientific Meetings and Events at:

• The Mineralogical Association of Canada (MAC) Annual Meeting is May 14-18, 2017 in Kingston, ON, Canada, Canada. More information and online registration at
  <http://www.kingstongacmac.ca>.

MAC has several opportunities for students:
  
  Foundation Scholarship: 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. Student Travel/Research Grants: travel and research grants to assist honors undergraduate and graduate students in the mineral sciences. Student Awards: given annually to undergraduate students at recognized Canadian universities or institutions of higher education, for excellence in one of the specialties supported by MAC.


The Geochemical Society Meeting Assistance Program was established in 2002 to allocate up to five (5) sponsorships of up to $2,000 (US$) each ($10,000 annually) for support of geochemistry sessions/symposia at any scientific conference of geochemical relevance. Deadlines for applications are March 31 and September 30 of each year:


http://community.geosociety.org/mgpvdivision/home
• Mineralogical Society of America (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 **2017-2018 MSA Distinguished Lecture Program** is now available for requests. It is designed to run from late September 2017 through April 2018. 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 America (MSA) invites applications for the **2018 MSA Grant for Research in Crystallography** and for the **2018 MSA Student Research In Mineralogy and Petrology**. There are up to three research grant awards of $5,000 each. Application deadline is January 31, 2018. 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 America's Undergraduate Prize** (formerly American Mineralogist Undergraduate (AMU) Award) program recognizes outstanding students who have shown an interest and ability in the discipline of mineralogy. Each student is presented a certificate, receives a student membership in MSA with access to the electronic version of *American Mineralogist* and *Elements*, and a *Reviews in Mineralogy and Geochemistry or Monograph* volume chosen by the sponsor, student, or both. Instructions to nominate a student at <http://www.minsocam.org/msa/Awards/UnderGrad_Award.html>.

• The **Mineralogical Society of Great Britain & Ireland (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, Geomicrobiology). Visit <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>.

• **MEETING: Redox-Active Minerals in Natural Systems**, University of Manchester, UK 21-22 June 2017. Four of the Special Interest Groups of the Mineralogical Society (Clay Minerals Group, Geomicrobiology Network, Environmental Mineralogy Group and the Geochemistry Group of the Mineralogical Society) will come together for a summer 2017 meeting with the theme ‘Redox-Active Minerals in Natural Systems’. The meeting will consist of two days of scientific sessions (including a poster session) followed by a one-day field trip to Parys Mountain, NE Anglesey, north Wales.

There will be a minimum of five keynote speakers:
- Geomicrobiology Network: Amelia-Elena Rotaru (University of southern Denmark)
- Clay Minerals Group: Anke Neumann (University of Newcastle, UK)
- Geochemistry Group: Susan Little (Imperial College, London)
- Environmental Mineralogy Group: Rob Newton (University of Leeds, UK)

Further information at [www.minersoc.org/redox.html](http://www.minersoc.org/redox.html)

---

**Remember:**
Renew your MGPV Division membership when you renew your GSA membership. Encourage your MGPV-interested colleagues to join:
[http://community.geosociety.org/mgpvdivision/join](http://community.geosociety.org/mgpvdivision/join)
Division Management Board

Officers

Chair (2017)
Wendy A. Bohrson
Central Washington University
Dept. of Geology
4505 Old Main Hill
Logan, UT 84322-4505
+1-435-797-1274
+1-435-797-1588 (fax)
john.shervais@usu.edu

First Vice-Chair (2017)
Anita Grunder
Oregon State University
College of Earth, Ocean, and Atmopsheric Sciences
104 CEOAS Administration Building
Corvallis, OR 97331-5503 USA
+1-541-737-5189
+1-541-737-1200 (fax)
grundera@geo.oregonstate.edu

Second Vice-Chair (2016)
John W. Shervais
Utah State University
Department of Geology
4505 Old Main Hill
Logan, Utah 84322-4505
+1-435-797-1274
+1-435-797-1588 (fax)
john.shervais@usu.edu

Secretary-Treasurer (2016-2017)
J. Alexander Speer
Mineralogical Society of America
3635 Concorde Pkwy Ste
500 Chantilly, VA 20151-1110 USA
+1-703-652-9950
+1-703-652-9951 (fax)
jasper@minersoc.org

Past Chair (2017)
Yildirim Dilek
Miami University
Dept. of Geology & Env. Earth Sci.
208 Shidler Hall
Oxford, OH 45056-3656 USA
+1-513-529-2212
+1-513-529-3214 (fax)
dileyk@miamioh.edu

Student Representative (2014-17)
Thomas R. Benson
Stanford University
450 Serra Mall 320
Stanford, CA 94305 USA
+1-609-658-3358
trb@stanford.edu

Adhering Society Representatives

Clay Minerals Society (CMS)
Warren D. Huff
University of Cincinnati
Dept of Geology
PO Box 210013
Cincinnati OH 45221-0013 USA
+1-513-556-3731
+1-513-556-6931 (fax)
w Warren.huff@uc.edu

Geochemical Society (GS)
Matthew E. Bruseke
Kansas State University
Department of Geology
1108 Thompson Hall
Manhattan, KS 66506 USA
+1-785-532-1908
bruseke@ksu.edu

Mineralogical Association of Canada (MAC)
David A. Fowle
University of Kansas
Department of Geology
1475 Jayhawk Blvd. Room 120
Lawrence KS 66045-7594 USA
+1-785-864-1955
+1-785-864-6276 (fax)
fowle@ku.edu

Mineralogical Society of America (MSA)
Wendy A. Bohrson
Central Washington University
Dept Geological Sciences
400 E University Way, MS 7418
Ellensburg, WA 98926-7502 USA
+1-509-963-2835
+1-509-963-2821 (fax)
bohrson@geology.cwu.edu

Mineralogical Society of Great Britain & Ireland (MSGBI)
Kevin Murphy
Mineralogical Society
12 Baylis Mews, Amyard Park Road
Twickenham TW1 3HQ
United Kingdom
+44 (0)20 8945 4001
+44 (0)20 8945 4149 (fax)
kevin@minersoc.org

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 Council/Division Liaison
Elizabeth J. Catlos
University of Texas - Austin
Dept. of Geological Sciences
6 East Mall EPS Room 1.130
Austin, Texas 78705 USA
+1-512-568-2183
ejcatlos@gmail.com

http://community.geosociety.org/mgpvd/