[1] Division Mission:

- to provide a mechanism whereby Geological Society of America members whose common interests are mineralogy, geochemistry, petrology, and volcanology can organize to partner with adhering Associated Societies with the same interests;
- to act as an organized group within the framework of the Geological Society of America to better promote awareness, teaching, study, and research of the relevant areas;
- to stimulate and facilitate within the framework of the Geological Society of America the presentation and discussion of problems, ideas, knowledge, and results of work and research in the relevant areas;
- to cooperate with other Divisions and Sections of the Geological Society of America and with other Associated Societies and scientific organizations in fostering, aiding, furthering, and promoting the relevant areas;
- to advise and assist the officers, council, and committees of the Geological Society of America in matters pertaining to the relevant areas.

[2] Officers:

These are the elected officers between the 2015 and 2016 GSA Annual Meetings:

- Past Chair: Diane R. Smith, Trinity University
- Chair: Yildirim Dilek, Miami University
- 1st Vice-Chair: Wendy A. Bohrson, Central Washington University
- 2nd Vice-Chair: Anita Grunder, Oregon State University
- Secretary-Treasurer: J. Alexander Speer, Mineralogical Society of America

[3] Management Board: Elected Officers plus representatives from the:

- Mineralogical Society of America (Wendy A. Bohrson)
- Geochemical Society (Matthew E. Brueseke)
- Mineralogical Association of Canada (David A. Fowle)
- Clay Minerals Society (Warren D. Huff)
- Mineralogical Society of Great Britain and Ireland (Kevin Murphy)

- GSA student representative (Thomas R. Benson)
- Division Liaison to GSA (Elizabeth Catlos)

[4] Committees:

(a) MGPV Distinguished Geologic Career Award (2017 award)

- Wendy A. Bohrson, Central Washington University, chair
- Stephen Daly, University College Dublin
- Cynthia Gardner, Cascades Volcano Observatory
- Mike Dorais, Brigham Young University
- John Wakabayashi, California State University-Fresno
- Robert Weibe, University of California-Davis
(b) MGPV Early Career Award (2017 award)

Anita Grunder, Oregon State University, Chair
Mike Williams, University of Massachusetts-Amherst
Roberta Rudnick, University of Maryland
Vic Camp, San Diego State
Tom Hoisch, Northern Arizona University
John Ayers, Vanderbilt University
Matthew E. Brueseke, Kansas State University

(c) Nomination for Officers committee (for 2016 ballot)

Diane Smith, Trinity University, Chair
John Wakabayashi, California State University-Fresno
Gail Mahood, Stanford University
Rosemary C. Capo, University of Pittsburgh
Chris Berg, University of West Georgia

(d) review of proposals and selection of MGPV Division Student Research Grants (for 2016)

Past Chair: Diane R. Smith
Chair: Yildirim Dilek
1st Vice-Chair: Wendy A. Bohrson
2nd Vice-Chair: Anita Grunder

[5] JTPC Representatives:

Wendy A. Bohrson, Anita L. Grunder

[6] Council Liaison:

Elizabeth Catlos, University of Texas-Austin

[7] Membership Information:

<table>
<thead>
<tr>
<th>Year</th>
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<tr>
<td>2009</td>
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</tr>
<tr>
<td>2016</td>
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</tr>
</tbody>
</table>

For 2014, GSA instituted a policy wherein students can join their first Division at no cost. This 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.

[8] Newsletter and Publications:

Newsletter, twice a year posted at

<http://community.geosociety.org/mgpvdivision/resources/newsletters>
2016 issues:
   February 2016, Vol. 7, No. 1
   August 2016, Vol. 7, No. 2

[9] Website:

   older website <http://www.geosociety.org/divisions/mgpv/>, now pointing to the
   Connected Community website <http://community.geosociety.org/mgpvdivision/home>

[10] Fundraising and Awareness: none

[11] Financial Summary:

   As of 06/30/2016, MGPV has a cash balance of $22,465.50. Dues income in 2015-2016 (GSA’s and
   the Division’s fiscal year to July 1 through June 30) was $7,686.19 increasing slightly from $7,571.00
   for 2014-2015; and a decrease from $8,491.75 for 2013-2014 and $9,503.35 for 2012-2013. The
   significant decrease after the 2013-2014 dues season was the result of the start of the GSA policy
   that students can join their first Division at no cost.

   There was $18,000 from the James B Thompson Fund of the GSA Foundation to support the 2016
   student research grants and the 2015 Distinguished Geologic Career and Early Career Awards.
   Other expenses during this period were $1,594.16 AV services, postage, shipping, travel and freight;
   $4,287.00 for student grants, awards & awardee travel support; $2,200.56 for the reception (1/3 of
   the total cost with the balance shared between GS & MSA).

[12] Awards and Travel Grants:

   Donald A. Swanson, U.S. Geological Survey, Hawaiian Volcano Observatory, Hawaii National Park,
   HI, United States is the 2016 Distinguished Geologic Career Awardee.

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

   2015 MGPV Division Student Research Grant awardees are:

   - Jacob Anderson, Boise State University, Boise, ID, for his project: Constraining nonlinear air
     wave propagation from vulcanian eruptions at Tungurahua volcano, Ecuador
   - Andrew G. Harp, University at Buffalo, Buffalo, NY, for his project: Vertical and lateral
     propagation of mafic radial dikes inferred from flow-direction analysis of an exposed radial dike
     sequence, Summer Coon Volcano, CO, USA.
   - Rebecca Paisley, McGill University, Quebec, Canada for her project A Geochemical approach
     to constraining magmatic degassing in rhyolitic systems
   - George Reo, Northern Illinois University, Dekalb, IL, for his project: The Partitioning of Platinum
     and Palladium between Silicate and Sulfide Melts
   - Nikki Seymour, University of Austin, Austin, TX for her project: Timing and Magnitude of Slip
     along the Atacama Fault System, northern Chile
   - David Hernandez Uribe, Central Washington University, for his project: Estimating the
     thickness of an ultra-high pressure (UHP) terrane: Insights from phase equilibria modeling and
     Zr-in rutile thermometry, Dulan area, North Qaidam terrane, Northwest China

   The awards will be presented at the Joint MGPV-MSA-GS Reception, Tuesday, 27 September 2016:
   5:45 PM - 7:30 PM, Colorado Convention Center, Mile High Ballroom 1F.
[13] Associated Societies and Partnerships:

The Clay Minerals Society; The Geochemical Society; The Mineralogical Association of Canada; The Mineralogical Society of America; The Mineralogical Society of Great Britain and Ireland

[14] 2016 GSA Annual Meeting Activities:

**MGPV’s Distinguished Geologic Career Award Session**

Donald A. Swanson, recipient of the 2016 Distinguished Career GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division (MGPV) Award, is recognized for his pain-staking, field-oriented approach to volcanology across a range of scales and compositions. Dr. Swanson will give some remarks as well as his Distinguished Geologic Career Award Lecture: *Deposits of the 1924 Explosive eruption of Kilauea Volcano, Hawaii* in the session T228. Field Geology to Inform Volcanic Processes: A Tribute to the Distinguished Career of Don Swanson, Sunday, 25 September 2016: 1:30 PM-5:30 PM, Room 503; Monday, 26 September 2016: 9:00 AM-6:30 PM Exhibit Hall E/F (posters).

There are 52 topical technical sessions in 54 half-day oral sessions and 25 poster sessions at the GSA 2016 Annual Meeting that are sponsored by the MGPV Division and its Participating Societies.

**Topical Sessions (co-)sponsored by MGPV Division and its Participating Societies**

- T003. Economic Geology of the Extensional Terrains
- T005. Magmatic-Hydrothermal Ore Deposits: Metal Transport from Source to Sink
- T006. Micro-Analytical Techniques in Ore Deposit Research
- T007. Mineral Resources for Society: Honoring the Career and Contributions to Economic Geology of Jean S. Cline
- T014. Geologic Energy Research
- T015. Geology and Geochemistry of Carbon Dioxide, Helium, and Other Low-BTU Natural Gas Systems
- T019. Unconventional Energy Resources
- T026. Biogeochemical Redox Cycling of Metals and Radionuclides
- T028. Interdisciplinary Approaches to Assessing Environmental Impact of Mining
- T033. Beyond EARTHTIME: Accuracy and a Multi-Chronometer Time Scale
- T037. Excursions, Extinctions, and Environmental Change: New Advances in Geochemical Tools Linked to Critical Intervals of Environmental and Biotic Change in Earth History
- T040. Non-Traditional Stable Isotope Fractionation at Extreme Conditions: In Honor of Anat Shahar, 2016 MSA Awardee
- T041. pXRF in the Geosciences: Applications to Environmental, Regional, and Exploration Geology
- T043. Sources, Transport, Fate, and Toxicology of Trace Elements and Organics in the Environment
- T045. Urban Geochemistry
- T061. Quantifying Geomorphic Processes and Rates of Landscape Evolution
- T065. Precambrian Evolution and Mineral Resources of the Midcontinent Rift Region: In Honor of William J. Hinze
- T070. The Animas River and Beyond: Balancing Science and Policy in Cleaning up
America’s Abandoned Mine Lands

- T076. Digital Poster Session: Training Preservice Teachers to Apply Digital Technology across the Geoscience Curriculum (Posters)
- T103. Emerging Contaminants in Water Supplies
- T130. Influence of Volcanism on the Evolution of Cretaceous and Paleogene Marine Ecosystems and Climate
- T132. Microfossil Proxies in Earth History (Posters)
- T133. New Views of the Paleocene-Eocene Thermal Maximum
- T139. High-Precision Geochronological Constraints on the Geologic History of Dinosaur Evolution
- T145. Volcanism, Mass Extinctions, and Environmental Change
- T153. Alkaline Rocks: In Honor and Memory of Daniel S. Barker
- T154. Recent Advances in Understanding Magmatism along and within the Northern North American Cordillera
- T155. Fifty Years of Innovation in Petrology and Orogenic Systems: A Tribute to Lincoln Hollister
- T156. Heat and Mass Transfer through Earth's Crust during Metamorphism
- T158. Partitioning of Chlorine and Associated Halogens between Minerals, Melts, and Brines
- T159. Ceres' Surface Composition as an Indication of Interior Evolution
- T165. Impact Cratering on Earth and throughout the Solar System
- T166. Large Igneous Provinces (LIPs) in the Solar System
- T172. Tectonic, Volcanic, and Volcanotectonic Processes on Rocky Planetary Bodies
- T173. The Evolution of Mars from Mantle through Crust: New Views from Petrology and Geochemistry
- T209. Earth History in the Broadest Context—Ophiolites, Global Tectonics, and Public Awareness of Earth Science: Celebrating the Contributions of Eldridge Moores
- T212. Multifaceted Approaches to Understanding Fluid-Fault Interactions in Natural Resources and Geologic Hazards
- T214. Along-Strike Variations in Mountain Belts: Why Are They Important and What Causes Them?
- T215. Applications of Geochronology and Thermochronology for Understanding the Tectonic Mechanisms and Surface Processes of the Tibetan Plateau
- T216. Cenozoic Evolution of the Southern Rocky Mountains and Northern Rio Grande Rift: Exploring Linkages between Geologic History, Processes, and Landscape Change
- T223. Rates in Metamorphism and Tectonism: From Mineral Growth to Orogenesis
- T224. Records of Subduction Initiation in Modern and Ancient Settings
- T227. Time Matters: Celebrating the Scientific Legacy of Samuel A. Bowring
- T228. Field Geology to Inform Volcanic Processes: A Tribute to the Distinguished Career of Don Swanson
Reception

The MGPV Division will join with the Mineralogical Society of America and the Geochemical Society in a joint reception on Tuesday, 27 September 2016: 5:45 PM - 7:30 PM, Colorado Convention Center, Mile High Ballroom 1F during which the following will be recognized:

**MGPV 2016 Distinguished Geologic Career Award.** The MGPV Division’s 2016 Distinguished Geologic Career Award will be presented to **Don Swanson**, U.S. Geological Survey, Hawaiian Volcano Observatory, Hawaii National Park, HI, United States.

**MGPV 2016 Early Career Award.** The MGPV Division’s 2016 Early Career Award will be presented to **John M. Cottle**, Department of Earth Science & Earth Research Institute, University of California, Santa Barbara, CA, United States.

**MGPV Division Student Research Grants.** **Jacob Anderson**, Boise State University, **Andrew G. Harp**, University at Buffalo, **Rebecca Paisley**, McGill University, **George Reo**, Northern Illinois University, **Nikki Seymour**, University of Austin, and **David Hernandez Uribe**, Central Washington University.

[15] Business Meeting Summary:

The Division will have its required business meeting on Sunday, 25 September 2016: 12:00 PM - 12:30 PM, Colorado Convention Center, Room 503. There will be a brief update about the Division, and an opportunity to ask questions or make comments. This is just before the MGPV-sponsored session T228. Field Geology to Inform Volcanic Processes: A Tribute to the Distinguished Career of Don Swanson in the same room.

[16] In-coming (2017) Officers:

- **Past Chair:** Yildirim Dilek, Miami University
- **Chair:** Wendy A. Bohrson, Central Washington University
- **1st Vice-Chair:** Anita Grunder, Oregon State University
- **2nd Vice-Chair:** John W. Shervais, Utah State University
- **Secretary-Treasurer:** J. Alexander Speer, Mineralogical Society of America

[17] GSA Section Meeting Activities:  
none

[18] Other Meetings:  
none

[19] Future Activities / Action Items:

The Division's goals for the upcoming year are (1) retaining current members and increasing membership, (2) encouraging session proposals for the GSA 2017 Annual meeting, (3) selection of the 2017 MGPV Distinguished Geologic Career and Early Career Awardees, (4) establishing criteria for the MGPV Student Travel grants, (5) selection of MGPV Division Annual Student Research Awards, and (6) encouraging MGPV technical sessions at Sectional Meetings.

[20] Requests For GSA Council Ratification:  
(Changes/additions in Bylaws, Awards, Travel Grants, etc. for GSA Council final approval)

There is one item for GSA Council Ratification:

(1) Approval of **Dr. Jon Davidson**, Durham University, Durham, United Kingdom as the 2017 MGPV Division Distinguished Geological Career Awardee. **Dr. Davidson**'s nomination package is **Appendix A**.
"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.

In an effort to identify and quantify the open system processes, Jon led efforts to develop in-situ isotopic analyses in individual crystals. In 1988 and 1989 using a microdrill, very careful column chemistry and painstaking mass spectrometry involving new technique development, Jon and colleagues demonstrated the existence of microscale isotopic disequilibrium in individual crystals from lavas in the Central Andes. This pioneering work in the detailed Sr isotope geochemistry of zoned minerals and matrix/groundmass directly led to a new understanding of crystal recycling and solid phase assimilation in magmas. In short, the now widely accepted concept of a magmas “crystal cargo” can be directly traced to these early efforts that identified widespread isotopic heterogeneity in feldspars. Micro-isotopic analysis has become an indispensable part of the petrology toolkit and crucial to “crustal forensics” studies.

... His stellar reputation as a petrologist/geochemist often overshadows the fact that at his core Jon is a consummate field geologist. At the heart of all his work is the guiding principle that all laboratory analysis requires geological context and he instills this in all his advisees and collaborators. Fieldwork for Jon is about more than collecting samples, it is about understanding the magmatic system on a local and regional scale."

[21] Emerging Needs:

Annual Report Submitted By: J. Alex Speer, MGPV Secretary-Treasurer
Reporting Period: 1 October 2015 – 31 August 2016
Date Report Submitted: 23 August 2016

Appendix A.