[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 2013 and 2014 GSA Annual Meetings:

Past Chair: Calvin G. Barnes
Chair: Eric H. Christiansen
1st Vice-Chair: Diane R. Smith
2nd Vice-Chair: Yildirim Dilek
Secretary-Treasurer: J. Alexander Speer

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

Mineralogical Society of America (Wendy A. Bohrson)
Geochemical Society (William K. Hart)
Mineralogical Association of Canada (David A. Fowle)
Clay Minerals Society (Warren D. Huff)
Mineralogical Society of Great Britain and Ireland (Kevin Murphy)

[4] Committees:

(a) MGPV Distinguished Geologic Career Award (2015 award)

Matthew J. Kohn, Boise State 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) Nomination for Officers committee (for 2014 ballot)

Calvin G. Barnes, Texas Tech University, Chair
Phil Ihinger, University of Wisconsin - Eau Claire
Claudia Mora, Los Alamos National Laboratory
Bill Carlson, University of Texas-Austin
Diane Clemens-Knott, California State University-Fullerton
Jon Davidson, University of Durham, UK

(c) MGPV Early Career Award (2015 award)

Mike Williams, University of Massachusetts, Chair
Roberta Rudnick, University of Maryland
Tom Hoisch, Northern Arizona University
Vic Camp, San Diego State
John Ayers, Vanderbilt University

(d) review of proposals and selection of MGPV Division Student Research Grants (for 2014)

Past Chair: Calvin G. Barnes
Chair: Eric H. Christiansen
1st Vice-Chair: Diane R. Smith
2nd Vice-Chair: Yildirim Dilek

[5] JTPC Representatives:

Diane R. Smith, Yildirim Dilek

[6] Council Liaison:

Barbara L. Dutrow, Louisiana State University - outgoing
Elizabeth Catlos, University of Texas-Austin - incoming

[7] Membership Information:

<table>
<thead>
<tr>
<th>Year</th>
<th>Division Affiliates as of</th>
<th>Number of Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>547</td>
<td>1,000</td>
</tr>
<tr>
<td>2010</td>
<td>972</td>
<td>2,000</td>
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<tr>
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<td>1,384</td>
<td>3,500</td>
</tr>
<tr>
<td>2014</td>
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<td>4,000</td>
</tr>
</tbody>
</table>

GSA has instituted a policy wherein students can join their first Division at no cost. This 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 see [11] below.
[8] Newsletter and Publications:

Newsletter, twice a year <http://www.geosociety.org/divisions/mgpv/newsletter/>,
2014 issues:
  February 2014, Vol. 5, No. 1
  August 2014, Vol. 5, No. 2

[9] Website:

The Division website is <http://www.geosociety.org/divisions/mgpv/>

[10] Fundraising and Awareness: none

[11] Financial Summary:

As of 06/30/2014, MGPV has a cash balance of $21,565.86. Dues income in 2013-2014
(GSA's and the Division's fiscal year to July 1 through June 30) was $8,491.75, a drop from
the previous $9,503.35 for 2012-2013. GSA has instituted a policy wherein students can
join their first Division at no cost. This dramatically increased MGPV membership for 2014,
but with a subsequent loss of income.

There were $1,500 in transfers from the GSA Foundation. Expenses during this period
were $152.25 for AV services, postage, shipping, and freight; $9,001.10 for student grants,
awards & awardee travel support; $2,234.91 for the joint reception (1/3 of the total cost with
the balance shared between GS & MSA). Bottom line: we have enough money for the
upcoming 2014-2015 expenses for MGPV’s awards, reception, and keeping the number of
student research grants at four, but must keep an eye on the income loss because of fewer
dues.

[12] Awards and Travel Grants:

Frederick A. Frey, Massachusetts Institute of Technology, is the 2014 Distinguished
Geologic Career Awardee.

2014 MGPV Division Student Research Grant awardees are:

- Thomas Benson of Stanford University for his project: Metallogeny of energy-critical
  elements in mid-Miocene rhyolites associated with Steens/Columbia River flood
  basalts.
- Joshua M. Garber of University of California -Santa Barbara for his project: Lu-Hf
  Ages of Sub-Ophiolitic Rocks, Semail Ophiolite, Oman: Testing Models for
  Ophiolite Obduction.
- Rohanna Gibson of Queens University for her project: Along-strike strain variation in
  the Himalayan metamorphic core, west Nepal.
- Ming Tang of the University of Maryland for his project: Large variation of Li isotopic
  compositions in zircons: evaluating the role of kinetics.

The awards will be presented at the Joint MGPV-MSA-GS Reception, Tuesday, 21
October 2014: 5:45 PM-7:30 PM, VCC-West.

[13] Associated Societies and Partnerships:
[14] 2014 GSA Annual Meeting Activities:

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

- Dr. Frederick Frey will give some remarks as well as his *Distinguished Geologic Career Award Lecture: GEOCHEMICAL HETEROGENEITIES IN THE HAWAIIAN PLUME: THE ORIGIN OF DIFFERENCES BETWEEN LOA- AND KEA-TREND SHIELD LAVAS* at the MGPV-sponsored session on T117. *Magmas and Their Sources: A Tribute to the Distinguished Career of Fred Frey.* Sunday, 19 October 2014: 8:00 AM-12:00 PM Vancouver Convention Centre-West 205/206

**Pardee Keynote Symposia**

- Apatites I Have Known: From Man to Mars

**Topical Sessions (co-)sponsored by MGPV division:**

- T2. Emplacement of Upper Crustal Magmatic Intrusions: Field Studies of Laccoliths, Sills, and Subvolcanic Plugs: Posters
- T9. Reconstruction of East Asian Blocks in Pangea: Oral Session
- T15. Continental Arcs #1: Tectono-petrologic Processes Controlling Arc Tempos and Evolution: Oral Session
- T16. Continental Arcs #2: Processes at Arc to Magma Reservoir- Scale and Connections from Magma Source to Volcano: Oral Session and Posters
- T19. The Geodynamics of Flat-Slab Subduction and Its Influence on Upper Plate Deformation, Magmatism, and Basin Evolution: Oral Session and Posters
- T20. Magmatism, Tectonics, and Metallogeny of the Central Asian Orogenic Belt: Oral Session
- T57. Digital Geology Sandpit: Digital Posters I and II
- T90. Honoring the Diverse Career of Eric S. Cheney: From Ore Deposits and Sequence Stratigraphy to Pacific Northwest Geology and Citizen Responsibility: Oral Session
- T102. Asbestos, Fibrous Zeolites, and Other Elongate Mineral Particles (EMP) of Environmental Concern: Where Mineralogy and Geology Meet Epidemiology, Industrial Hygiene, and Public Policy: Oral Session
• T117. Magmas and Their Sources: A Tribute to the Distinguished Career of Fred Frey: Oral Sessions I and II and Posters
• T118. Frontiers in Non-Traditional Stable Isotopes: In Honor of Fang-Zhen Teng, Recipient of the 2014 MSA Award: Oral Session and Posters
• T121. Apatites I Have Known: From Man to Mars: Posters
• T122. Magmatism and Geodynamics within the Cascadia Subduction Zone: Oral Session and Posters
• T138. Geoscience Investigations of the Polar Regions: Oral Session
• T185. Pegmatites I Have Known and Loved: Oral Session and Posters
• T186. Natural Carbon Dioxide Accumulations as Analogs for Geologic Storage: Oral Session
• T206. Mass Extinctions: Volcanism, Impacts, and Catastrophic Environmental Change: Oral sessions I and II
• T215. Chikyu Meets Lithoprobe: Can We Connect Modern Arcs and Ancient Continental Crust?: Oral Session
• T216. Cenozoic Magmatism and Volcanism in the North American Cordillera: Oral Session and Posters
• T217. Mechanisms, Rates, and Timescales of Texture Formation in Metamorphic Rocks: Oral Sessions I and II and Posters
• T218. Subduction Zone HP-UHP Metamorphism and Its Relation: Oral Sessions I and II and Posters
• T121. Apatites I have known: From Man to Mars: Posters
• T222. Curiosity on Mars—Inspiring the Young Generation: Oral Session
• T224. When Water Meets Rock: Aqueous Alteration in the Solar System: Oral Sessions I and II
• T229. The Holey Solar System: Oral Session and Posters
• T233. Tectonics and Volcanism in the Solar System: Oral Session and Posters

Associated Society Topical Sessions

• T42. Landscape Evolution through the Lens of Cosmogenic Nuclides: Oral Session
• T45. Tracking Sediment Movement across Earth’s Surface: Oral Session
• T80. Urban Pollutants and Their Effects on Environmental and Human Health: Posters
• T103. Mining and the Environment: Addressing Common Challenges Faced across the Mining Industry: Oral Session and Posters
• T123. Advances in Nuclear Forensics: Posters
• T124. Trace Elements and Organics in Environmental and Urban Geochemistry: Oral Sessions I and II and Posters
• T134. Geomicrobiology: Microbe-Mineral Interactions: Oral Session and Posters
• T154. Groundwater and Surface-Water Arsenic: From Source to Sink: Oral Sessions I and II
• T155. The Role of Groundwater in the Eutrophication of Surface Waters: Oral Session
• T161. Application of Isotopes of Water to Characterize Hydrogeological Processes in Mine Environments: Oral Session
• T166. Gas-Water Interactions in the Subsurface: Oral Session
• T171. Leading Edge of Produced Water Research: Impacts, Fingerprinting, and Science of Brines Associated with Hydrocarbon Production: Oral Session
• T188. Organic-Rich Mud Rocks: Geochemistry, Physical Properties, and Paleo-Environments: Oral Session and Posters
• T191. What Do We Know about Fluids Produced from Unconventional Reservoirs?: Oral Session
• T192. High-Resolution Geochemical Proxies of Global Change: Progress, Problems, and Utility: Posters
• T193. Speleothem Records of Climate Change in North America: Oral Session
• T195. Extreme Environmental Conditions and Biotic Responses during thePermian-Triassic Boundary Crisis and Early Triassic Recovery: Oral Sessions I and II
• T196. Climate Change in the Geological Record: What Can We Learn from Data and Models?: Oral Session and Posters
• T198. The Ordovician Revolution: Co-Evolution of Climate and the Biosphere: Oral Session
• T202. The Tonian-Cryogenian World: Oral Session and Posters

[15] Business Meeting Summary:

The Division’s 2014 Business Meeting is scheduled Sunday, 19 October 2014: 12:30 PM-1:00 PM, VCC-West; just before the MGPV-sponsored session T117. Magmas and Their Sources: A Tribute to the Distinguished Career of Fred Frey

[16] In-coming Officers:

Past Chair: Eric H. Christiansen
Chair: Diane R. Smith
1st Vice-Chair: Yildirim Dilek
2nd Vice-Chair: Wendy Bohrson
Secretary-Treasurer: J. Alexander Speer

[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 2015 Annual meeting, (3) selection of the 2015 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 are two items for GSA Council Ratification:

(1) Bylaws amendments approved by the membership during August 2014. These are Appendix A.

(2) Approval of David A. Clague, Monterey Bay Aquarium Research Institute, as the 2015 MGPV Division Distinguished Geologic Career Awardee. Dr. Clague’s nomination package is Appendix B. (it has been abbreviated in interests of length.)
[21] Emerging Needs:

(1) GSA members should have the ability to join a Division or simply renew their Division membership (in case they forgot) online rather than the current procedure to mail, fax, or call in their application and payment <http://www.geosociety.org/members/joindiv.htm>.

Annual Report Submitted By:  J. Alex Speer, MGPV Secretary-Treasurer
Reporting Period:  1 October 2013 – 30 September 2014
Date Report Submitted:  10 September 2014

Appendix A.

Division Bylaws Amendments:

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

**ARTICLE II Membership**

From:

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

To:

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

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

Add:

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