Message from the Chair

Greetings MGPV Members! Maybe it’s just me, but this year has seemed to just fly by. Here it is July already and this year’s GSA meeting in Charlotte is approaching fast. MGPV is sponsoring 18 topical sessions (listed page 5) that span a very broad technical range, so there’s bound to be one just right for your latest research.

Also, GSA is seeking contributions from each Division to next year’s 125th Anniversary Meeting such as Pardee symposia, special sessions, workshops, field forums, etc., scheduled for 27-30 October 2013 in Denver. MGPV is sponsoring the Field Forum - “Formation of the Sierra Nevada Batholith: Magmatic and Tectonic Processes and Their Tempos,” that will run from 1-8 September 2012. Please contact forum leader Scott Paterson (paterson@usc.edu) if you’re interested in participating. But there’s certainly more that the Division can contribute, so please contact one of the Officers if you have an idea for something special that the Division can do in this regard.

The Division continues to grow, with a total of 1,386 Members during the first half of 2012. The breakdown is as follows: 310 Regular Members, 210 Fellows, 136 Senior Members, 77 Senior Fellows, 476 Student Members, 132 Recent Graduate Members, 18 Teacher Members, 20 Affiliates, and 3 Honorary Fellow members. Each of us is an ambassador and recruiter for the Division, so don’t hesitate to mention to a colleague at an opportune time that you’re a MGPV Division Member and ask if they are as well. Let’s see if we can’t help the Division grow to 1,500 by the time we get together in Charlotte at the end of October.

But there’s something else that you can do. GSA Fellowship is an honor that is bestowed on the best of our profession once per year at our yearly GSA Annual Meeting. GSA members are elected to Fellowship in recognition of distinguished contributions to the geosciences. The criteria for GSA Fellowship are listed at: http://www.geosociety.org/members/fellow.htm#criteria. Presently, 210 MGPV Division
Members are GSA Fellows. This is 15% of the membership and comparable to that of other Divisions. That's the good news. The bad news is that all but a few of these joined the Division already a GSA Fellow. Of the 78 new GSA Fellows selected last year, only 1 came from the Division. So, we really need to do a better job of nominating our Members for Fellow status. I'm sure that there are a large number of Division Members who qualify for “Fellow” status. So, I would encourage those of you who qualify for this recognition to contact one of the Divisions Fellows for sponsorship. Details of the nomination process, which has an early February deadline each year, are provided at: http://www.geosociety.org/members/fellow.htm. Division Secretary Alex Speer will be pleased to provide the names of some Division Fellows.

Finally, don't miss the MGPV award ceremony reception on Tuesday night during the GSA meeting in Charlotte. It will be well worth the modest price of admission. I'm looking forward to seeing you there.

Russell Harmon, Chair (2012)

2012 MGPV Division Distinguished Geologic Career Award to Jason B. Saleeby

Jason B. Saleeby, California Institute of Technology, Pasadena, California, is the 2012 Distinguished Geologic Career Awardee. The award will be presented at the Reception during the 2012 GSA Annual Meeting, Charlotte, NC, USA following a session in his honor: Multidisciplinary Studies of Convergent Plate Boundaries.

Dr. Saleeby is cited for his research that has transformed our understanding of convergent margin systems through the creative and rigorous integration of information from geochemistry, geochronology, petrology, geophysics, and field observations. Jason Saleeby is the original tectonic petrologist, a scientist that uses petrography, petrology, geochemistry and isotopes (among other tools) to resolve large-scale tectonic problems. He has an extraordinary rich background ranging from classic geology to physics and chemistry, and almost 40 years of great discoveries in the realm of continental tectonics, and especially in Cordilleran geology. Few Earth Scientists are able to glean as much information from rocks and structures in the field, and then apply a broad range of quantitative techniques to provide constraints on their ages and origins. These skills have provided Dr. Saleeby with an impressive ability to reconstruct the full geologic history of study areas, rather than just focus on a particular event or process. Dr. Saleeby’s also has integrated information from surficial processes on land, geochemical/petrologic processes that operate within the deep crust and upper mantle, and the wide range of igneous, metamorphic, and hydrothermal processes that operate on the ocean floor. He moves easily between such diverse scales and types of integrating...
observations. From the detailed characterization of the P-T history in xenoliths, to the structural complexities of deep crust, to the geophysical imaging of crustal sections, to the metamorphic petrology of migmatites, to the geodynamics of the Sierra “drip,” to landscape evolution. His success resides in bringing the same geological rigor and insight to all the diverse fields and scales of observations. Dr. Saleeby’s abilities to combine information from these realms were instrumental in the conceptual breakthroughs in understanding accretionary tectonics in the 80’s, crustal recycling and delamination beneath batholiths in the 90’s, and Laramide-style subduction in the 2000’s.

MGPV Division Student Research Grants

This is the second year for the MGPV Division’s annual student research award. The 2012 awardees are:

Anthony Pollington of the University of Wisconsin for his project: Silicon Isotope Fractionation Factors between Quartz and Water at Low Temperatures.

In recent years many studies have examined silicon isotope fractionation between quartz and water empirically or theoretically. However, there are no published reports of experimental determinations for these fractionation factors. His study will be the first of its kind in many respects: 1) experimental determination of quartz-water δ30Si fractionation factors; 2) low temperature experiments of any isotope system; 3) ion microprobe analyses of experimental products for fractionation calibrations. Knowing the fractionation factors for δ30Si between quartz and water will allow for the study of the sources of ions that lead to formation of diagenetic quartz. This will prove to be an invaluable tool in the investigation of porosity and permeability evolution in potential reservoirs and seals. The fractionation factors that will be determined in this study will be of use to anybody studying the silicon isotopic composition of quartz in low-temperature settings (diagenesis, weathering, etc.).

From Anthony Pollington: “I would like to start off by thanking the division for this award and kind recognition. I grew up in Utah where I was intrigued from a young age with the exciting physical features in the mountains I saw every day. I was first drawn into geochemistry and petrology during a semester project for my mineralogy class as an undergraduate at the University of Utah. Chemical analyses showing relatively high fluorine concentrations in contact metamorphosed talc led to a collaboration with John Bowman and a research project that I would spend the next several years investigating. During the course of this
work, I became hooked on the information that could be discovered from variations in the chemistry and distribution of minerals. In 2006, I started a masters program at Boston University working with Ethan Baxter. My research there focused on the geochronology of zoned minerals (garnets) and instilled in me a passion for understanding the paces of various processes in the natural world. I am currently working towards my Ph.D. with John Valley at the University of Wisconsin-Madison, where my work has focused on in situ measurements of stable isotopes in diagenetic minerals. I continue to be fascinated by heterogeneities and fine-scale chemical zonation and how that information can be used to study local and regional events. In my free time, I am an avid road cyclist and am currently training for my first triathlon.”

Kyle Samperton, of Princeton University for his project: Emplacement and evolution of the Bergell Intrusion, N Italy: insights from U-Pb TIMS-TEA.

Questions regarding the nature of crustal magmatic systems and the assembly histories of plutons, including: 1) Over what temporal and spatial scales do individual magma intrusions exist in the crust?; 2) How does melt volume, geometry, and associated accessory phase chronology vary in a single plutonic unit as a function of depth?; 3) What does high-precision geochronology (e.g. zircon U-Pb ID-TIMS ages) actually record, and how can geochronologic observations be better informed?; and 4) What are the dominant processes underlying the construction of plutons (diapirs/"large tanks" vs. incremental assembly/"small tanks")? Kyle will investigate these problems in the context of the Bergell Intrusion (N Italy), a spectacularly well-exposed alpine pluton which preserves a unique 12-15 km crustal section through the middle to lower crust, in addition to several distinct process zones (pluton floor, roof and feeder zone).

From Kyle Samperton: “I am a second-year Ph.D. student in the Department of Geosciences at Princeton University. In collaboration with Blair Schoene and others I am addressing problems related to competing pluton emplacement hypotheses and the spatiotemporal scales of magmatic processes operating in the Earth’s crust. Our multifaceted research approach integrates high-precision U-Pb TIMS-TEA, ultra-fine spatial resolution LA-ICPMS, numerical modeling of both in situ and bulk trace element geochemistry, original field work and mapping, and eventually thermal modeling. My thesis is focused specifically on the alpine Bergell Intrusion (Central Alps), which preserves a spectacular ~12 km section through a normally-zoned, mid- to lower-crustal granitic pluton. Our ultimate goal is to develop a comprehensive and coupled geochronologic/geochemical dataset which will advance our understanding of the mechanisms underlying continental crust formation. I previously received a B.S. in Geological Sciences working with Drew Coleman at the University of North Carolina at Chapel Hill.”
MGPV at Charlotte GSA 2012

• Technical Sessions. MGPV and its Participating Societies are sponsoring 1 Pardee Keynote Symposia, 29 half-day oral technical sessions, and 2 poster sessions.

   The Division hopes to have another strong presence at the GSA Annual Meeting in Charlotte (4-7 November 2012) by sponsoring a number of the topical sessions. Now do your part and submit an abstract to the session of your choice. (Abstract deadline is 14 August 2012.) And then make sure your abstract is placed where you want it! Division officers are part of the committee that decides into which sessions abstracts are placed. If you want GSA to consider if your abstract should be grouped with other talks on similar MGPV topics, please be sure to check the box for the MGPV Division (if a submission to a Topical Session), one of the Adhering Societies (CMS, GS, MAC, MSA, MSGBI), and include mineralogy, geochemistry, petrology, and/or volcanology as keywords. This will assure that someone in the Division sees your abstract and has an opportunity to comment on where it is placed in the program.

• Reception. The MGPV Division will join with the Mineralogical Society of America and the Geochemical Society in a joint reception on Tuesday, 6 November 2012: 5:45 PM-7:45 PM.

   **MGPV 2011 Distinguished Geologic Career Award.** The MGPV Division’s 2012 Distinguished Geologic Career Award will be presented to Jason B. Saleeby, California Institute of Technology, Pasadena, California, during the MGPV Reception. Dr. Saleeby will give his *Distinguished Geologic Career Award Lecture* - at the MGPV-sponsored session on **Multidisciplinary Studies of Convergent Plate Boundaries: In Honor of Jason Saleeby, 2012 MGPV Distinguished Geologic Career Awardee**.

   **MGPV Division Student Research Grants.** Anthony Pollington of the University of Wisconsin and Kyle Samperton, of Princeton University, student research grants recipients will be recognized during the MGPV Reception.

• Business Meeting. The Division will have the required business meeting. Dates and times will be known in late 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.
2012 Annual Meeting in Minneapolis, MN  
Sessions sponsored by MGPV and its Associated Societies

Pardee Keynote Symposia

Supercontinent Cycles through Earth History  
GSA Structural Geology and Tectonics Division; GSA Geophysics Division; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division, A. Krishna Sinha, Kent Condie, Robert D. Hatcher  
Geologic framework of Supercontinent Cycles through Earth’s history: Implications of tectonic, petrologic, geochronologic and biologic processes.

Technical Sessions

MGPV & Participating Societies - Sponsored Topical Sessions at GSA 2012

T1. Sources, Transport, Fate, and Toxicology of Trace Elements and Organics in the Environment  
International Association of GeoChemistry (IAGC); GSA Hydrogeology Division; GSA Environmental and Engineering Geology Division; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; Geochemical Society, David T. Long, W.B. Lyons, LeeAnn Munk  
Basic and applied research on trace elements and organics in the environment are encouraged. Topics include those that relate to understanding and modeling sources, transport and fate; human and ecosystem health; and environmental assessment and remediation.

T7. Progress in Forensic Geochemistry  
GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; International Association of GeoChemistry (IAGC); Geochemical Society; GSA Geology and Society Division, Russell Harmon, Jose R. Almirall  
The scope of forensic geochemistry has expanded due to rapid development of analytical tools for elemental and isotope ratio analyses. This session covers geochemical approaches to tracing environmental contaminants, materials provenancing, and other forensic applications.

T8. Hydrochemistry and Biogeochemistry of Tropical Mountainous Rivers and Estuaries  
GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; GSA Hydrogeology Division; International Association of GeoChemistry (IAGC); Geochemical Society, Steven Goldsmith, Russell Harmon, Ryan Moyer  
We seek contributions that examine the hydrochemistry of tropical mountainous rivers and/or the biogeochemical cycling and fluxes of material delivered by tropical mountainous rivers to their associated estuarine and coastal waters.

GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; GSA Hydrogeology Division; GSA Coal Geology Division, Olivier Beyssac, Sylvain Bernard  
This interdisciplinary session is dedicated to the formation, evolution, and fate of carbonaceous materials in geological processes with implications for fossilization, fluid-rock interactions, and diagenesis-metamorphism. Progress in analytical techniques will be discussed.

T12. A Healthy Dose of Quaternary Geochronology at the Shoreline: Applications of Luminescence and Other Dating Techniques to Resolving the Timing of Coastal, Estuarine, and Lake Shore Processes  
GSA Quaternary Geology and Geomorphology Division; GSA Archaeological Geology Division; GSA Environmental and Engineering Geology Division; Geochemical Society, Shannon A. Mahan, Kenneth
Lepper
We encourage presentations on applications and refinements for dating methods, such as OSL, ESR, fission track, radiocarbon, and cosmogenics, with a focus on constraining the timing and rates of Quaternary geologic processes around coastal shorelines.

T37. Cutting-Edge Developments in Energy and Other Natural Resources
GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; Mineralogical Society of America; American Association of Petroleum Geologists, Ann Vasko Givan, Robbie Gries
The opportunity to hear from highly acclaimed scientists, recognized by their professional peers, of their recent innovations, discoveries, novel solutions, challenges, and applications associated with energy. Traditional and alternative resource topics will be represented.

T46. Determining Chronological Environmental Records with Short Lived Isotopes: Problems and Solutions
Geochemical Society, Charles W. Homes, Gregg R. Brooks
In many projects, using of radioisotopes to establish chronologies of sedimentary systems, the criteria concerning the distribution of the radioisotopes are assumed or ignored resulting in misinterpretations. This session seeks presentations that address these problems.

T52. The Role of Mineralogy in Geobiology: Nanoscale Studies
Mineralogical Society of America, Gordon E. Brown, Georges Calas, Francois Guyot
This MSA-sponsored session honoring Karim Benzerara, a 2012 MSA Awardee, will explore the impact of microorganisms on a variety of geochemical and mineralogical processes, including biomineralization, microbe–earth material–metal ion interactions, and biogeochemical cycling of elements.

T56. Phase Transformations and Geodynamics: Mineralogy in Action: Devoted to Harry Green, 2012 Roebling Medalist
Mineralogical Society of America; American Geophysical Union; GSA Geophysics Division; GSA International Section, Larissa Dobrzhinetskaya, Russell Hemley, Michael Brown
We seek contributions on high-pressure rheology, petrology, shearing instabilities, phase transformations, and rock exhumation from great depths. Experiments, modeling that examine mineral-reaction–enabling flow/failure in spreading centers, subduction zones, and continental collision terranes are encouraged.

T66. New Strategies for Teaching Mineralogy, Petrology, Geochemistry, and Volcanology (MPVG) to Geoscience Majors and General Education Students (Posters)
GSA Geoscience Education Division; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; National Association of Geoscience Teachers, Elizabeth A. Johnson, Jodie Hayob, Shelley Jaye, Elizabeth McClellan
This session explores (1) strategies for teaching MPVG topics, including energy and mineral resources, to geoscience majors or students in introductory courses, and (2) ways to transfer pedagogy and content between introductory and advanced courses.

T67. Innovative Classroom Approaches to Teaching Biogeochemistry
Council on Undergraduate Research; International Association of GeoChemistry (IAGC); Geochemical Society, Steven Goldsmith, Sarah K. Fortner, Stephen Levas
We seek contributions that entail innovative classroom approaches to teaching biogeochemistry at a variety of levels (K–12, undergraduate, and graduate). Of particular interest are approaches that blend research and classroom experiences.

T98. Hydrogeology and Geochemistry of Shales
Society of Economic Geologists; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; GSA Environmental and Engineering Geology Division; Geochemical Society, Madeline E. Schreiber, John Chermak
This session will explore the hydrogeologic and geochemical characteristics of shale formations and their potential controls on water quality.
### T100. Biogeochemical Processes Influence the Environmental Fate of Contaminants: The Role of Hydrology and Ecology in the Chemical Evolution of Water
GSA Hydrogeology Division; Geochemical Society; GSA Environmental and Engineering Geology Division, Janet S. Herman, Karen C. Rice, Chuanhui Gu
Elucidation of the biogeochemical processes in watersheds that determine the chemical evolution of water improves our predictions of the environmental fate of contaminants. New insights depend upon interdisciplinary study including hydrology and ecology.

### T106. Arsenic: Fate and Transport in Natural Waters and Aquifers from Basin to Pore-Space Scale
GSA Hydrogeology Division; GSA International Section; GSA Geology and Society Division; GSA Geology and Health Division; Geochemical Society; International Society for Groundwater for Sustainable Development; GSA Environmental and Engineering Geology Division, Prosun Bhattacharya, Abhijit Mukherjee, Ratan Dhar, Karen H. Johannesson, Lois Ongley
All aspects of earth and anthropogenic systems that may impact the occurrence, fate, transport, biogeochemical cycling, and sustainable mitigation of arsenic in water, rocks, and biological organisms will be discussed.

### T124. Oceans and Climates through Earth History: From Proxy Reconstructions to Model Assessments (Posters)
Cushman Foundation; Geochemical Society; Paleontological Society, Miriam E. Katz, Beth A. Christensen, David P. Gillikin, Alicia C.M. Kahn
This session brings together proxy and modeling studies to improve our understanding of rapid ocean and climate events, and shifts between long-term climate states, within the context of normal climate variability throughout Earth's history.

### T127. Terrestrial Proxies of Paleoclimate and Paleoenvironment in Deep Time
GSA Sedimentary Geology Division; SEPM (Society for Sedimentary Geology); Geochemical Society; GSA Limnogeology Division, Lauren A. Michel, Jennifer M. Cotton, Ethan Hyland
This session focuses on advances in new proxy techniques as well as reconstructions of past environmental and climatic conditions for the terrestrial ecosystems as analogs for the impacts of future anthropogenically driven climate change.

### T128. Investigating the Future of Uranium in the Geosciences: An Examination of Environmental Studies and Applications
GSA Hydrogeology Division; Geochemical Society, Jessica M. Morrison, Ginger E. Sigmon, Peter C. Burns
A diverse body of work spanning atomic-scale studies of uranium in the solid-state to environmental remediation of actinide contaminants will be presented with insights from speakers on topics including bioremediation, contaminant transport, and Fukushima.

### T129. Advances in Spectroscopy for Geological and Mineralogical Analysis
GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; Mineralogical Society of America; International Association of GeoChemistry (IAGC), Thomas Tague, Sheila Seaman
This session will focus on the application of a growing variety of spectroscopic techniques to geologic problems and further understanding of structures and properties of minerals, glasses, and other geologic materials.

### T130. Bloss Mineralogical Session: In Honor of the Life-Time Accomplishments of F. Donald Bloss, Emeritus Alumni Distinguished Professor, Virginia Tech, as a Researcher, Author, and Teacher in the Field of Optical Mineralogy
GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; Mineralogical Society of America, Mickey E. Gunter, Nancy Ross
Contributions are broadly oriented toward teaching and research in optical mineralogy and applications of polarized light microscopy (e.g., petrology, forensics, asbestos identification, etc.) and those wishing to honor Professor Bloss for his contributions in mineralogy.
T131. **The Relationship between Silicic Plutons and Ignimbrites: Exploring the Contradictions**
GSA Geophysics Division; Geochemical Society; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division, Craig C. Lundstrom, D.S. Coleman
We solicit contributions aimed at discussion of the problem of upper crustal magmatic processes leading to formation of silicic plutons or silicic caldera systems and their relationship to each other.

T132. **From Composition and Modal Space, to Biopyriboles, to the Thermodynamics of Metamorphism: The Influence of James B. Thompson, Jr., on Present and Future Mineralogy, Metamorphic Petrology, and Northern Appalachian Geology**
GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; Mineralogical Society of America, Robert J. Tracy, Jo Laird, Mark J. Caddick
This session will contain a wide range of talks that reflect the profound influence of JBT on 20th-century mineralogy and petrology and New England geology as well as those that celebrate his continuing influence into the 21st century.

T133. **Getting to the Root of It—Metamorphism, Tectonics, and Crustal Evolution**
GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; Mineralogical Society of America; GSA International Section, Nigel M. Kelly, Callum J. Hetherington, Julien Allaz
A robust understanding of continental crustal evolution demands integrated approaches to metamorphic petrology. This session will showcase new research using multi-technique approaches to understanding metamorphic processes operating from subgrain- to orogen-scales.

T137. **The Evolution of Biomineralization**
GSA Geobiology & Geomicrobiology Division; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; Paleontological Society, Uwe Balthasar, Susannah M. Porter
Biomineralization is one of the most important processes linking the biosphere to the oceans, atmosphere, and lithosphere. This session is aimed at large-scale patterns in the evolution of biomineralization and their feedbacks with the environment.

T140. **The Big Kill: Paleobiological, Geochemical, and Modeling Studies of the Permian–Triassic Boundary Mass Extinction**
GSA Sedimentary Geology Division; Paleontological Society; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; GSA Geobiology & Geomicrobiology Division, Arne M.E. Winguth, Thomas J. Algeo, David Bottjer
This session features recent research of sedimentary, geochemical, paleobiological, and paleogeographical records and modeling studies to improve the understanding of the mass extinction near the Permian–Triassic boundary.

T148. **Geochemistry, Mineralogy, and Petrology of Mars**
GSA Planetary Geology Division; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; GSA International Section, A. Deanne Rogers, James J. Wray, Suniti Karunatillake
This session will focus on advances made in understanding the formation, evolution, and alteration of the martian crust through geochemical and mineralogical analyses. Presentations that utilize spacecraft data analysis, experiments, models, and/or analog studies are welcome.

T150. **The Geology of Asteroid 4 Vesta as Seen by Dawn: Results from One Year in Orbit**
GSA Planetary Geology Division; GSA Structural Geology and Tectonics Division; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division, R. Aileen Yingst, Scott C. Mest, W. Brent Garry
This session will present the exciting results from analysis of the data from Dawn's year at Vesta, including results from geologic mapping at global and local scales.

T161. **Detrital Zircon Provenance of Neoproterozoic to Lower Paleozoic Strata of Northern and Western Laurentia**
GSA Sedimentary Geology Division; Geochemical Society; GSA International Section, Michael C. Pope,
Rob Rainbird
This session focuses on detrital zircon provenance research of Neoproterozoic to Lower Paleozoic strata, particularly from northern and western Laurentia, to determine their sediment dispersal patterns, evolution of sediment provenance, and subtle tectonic events.

T166. **Controls on Terrestrial Dispersed Organic Carbon d13C Values from Diagenesis to Climate**
*Geochemical Society*; *GSA Limnogeology Division*, Brady Z. Foreman, A. Baczynski, Clement Bataille, Aaron Wood
We seek presentations that evaluate potential causes for d13C variability in dispersed organic carbon. The sources of variation can include sample preparation, diagenetic alteration, facies dependence, vegetation regime, atmospheric CO2, and local environmental conditions.

T174. **Multidisciplinary Studies of Convergent Plate Boundaries: In Honor of Jason Saleeby, 2012 MGPV Distinguished Geologic Career Awardee**
*GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division*; *GSA Geophysics Division*, G. Gehrels, Mihai N. Ducea, Cathy J. Busby
This session honors the fundamental contributions of Dr. Jason B. Saleeby, who has transformed our understanding of convergent margin systems through the creative and rigorous integration of information from geochronology, petrology, stratigraphy, and geophysics.

T177. **Supercontinent Cycles through Earth History (Posters)**
*GSA Structural Geology and Tectonics Division*; *GSA Geophysics Division*; *GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division*; *GSA International Section*, A. Krishna Sinha, Kent Condie, Robert D. Hatcher
Geologic framework of Supercontinent Cycles through Earth's history: Implications of tectonic, petrologic, geochronologic and biologic processes.

T181. **Integrated Detrital Records of Orogenic Systems**
*Geochemical Society*, Brian W. Romans, Amy L. Weislogel, Julie C. Fosdick
The record of orogenesis is contained within detritus deposited in sedimentary basins. This interdisciplinary session will highlight innovations in using detrital geo-/thermo-chronology and other geochemical provenance methods to better understand relationships of tectonics and sedimentation.

**MGPV at GSA Sectional Meetings**

Divisions have the primary responsibility for developing the technical session program for GSA Annual Meetings. They are now being asked to take a similar active role for the Section meetings where their involvement has been small. Consider developing and submitting theme session topics for 2013 and 2014 Section meetings. Now is the time to approach the organizers of those meetings to get MGPV Division theme sessions into the programs. Contacts are listed on the GSA Section Meetings page <http://www.geosociety.org/meetings/>.
MGPV Membership and Finances

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

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>547</td>
<td>2009 Division affiliates as of 31 December 2009</td>
</tr>
<tr>
<td>955</td>
<td>2010 Division affiliates as of 30 December 2010</td>
</tr>
<tr>
<td>1,435</td>
<td>2011 Division affiliates as of 30 December 2011</td>
</tr>
<tr>
<td>1,386</td>
<td>2012 Division affiliates as of 16 July 2012</td>
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Retaining the 2011 numbers depends on all members renewing for 2012. Please remember to renew your Division membership at GSA annual membership renewal 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 Grad, or K-12 Teacher - $5, Professional Member or Fellow - $10. Please help us sustain a strong start by joining, asking others to join, and volunteering.

**Finances:** As of 06/30/2012, MGPV has a cash balance of $17,059.21. The income in 2011-2012 (GSA’s and the Division’s fiscal year to July 1 through June 30) was $9,721.52 from dues. Expenses during this period were $140.17 postage, shipping, freight, $3,000.00 for student grants, and awardee & speaker travel support, $1,291.56 for the reception (1/3 of cost with the balance shared between GS & MSA, and $500 transfer to GSA to cover office expenses, postage, etc.). Bottom line: we have enough money for the upcoming 2012-2013 expenses for MGPV’s Distinguished Geologic Career Award, reception, student research grants, and support of the field forum: Formation of the Sierra Nevada Batholith: Magmatic and Tectonic Processes and Their Tempos

Announcements from Adhering Associated Societies

**Web listing of MGPV Scientific Meetings at** <http://homepages.udayton.edu/~akoziol1/meetings.html>

- The Mineralogical Society of America (MSA) will have its Award & Presidential Lectures at Charlotte GSA 2012 - Tuesday, 6 November starting at 3:00 pm. **Harry W. Green, II** give the MSA Roebling Medal Lecture: "Mineralogy in Action: Critical Controls on Geological Phenomena and Rock Memory". **Karim Benzerara** will give the MSA Award Lecture: "Biomineralization and fossilization of bacteria: what do we learn from field and experimental studies".

- The Mineralogical Society of Great Britain & Ireland (MSGBI) has several meetings: 2–6 September 2012 **EMC2012: Planet Earth - from Core to Surface** (joint meeting between MSGBI and eight other European Mineralogical Societies (Goethe-University, Frankfurt, Germany); 2–4 January 2013 **Applied Mineralogy Group - Mineral Deposits Studies**

http://www.geosociety.org/divisions/mpvg/
Group Annual Meeting (University of Leicester); 7–9 January 2013  Volcanic and Magmatic Studies Group Annual Meeting  (Bristol University); 26–29 March 2013  Volcanic and Magmatic Studies Group Volcanism, Impacts, and Mass Extinctions: Causes and Effects  (Natural History Museum); 17–19 June 2013  Mineralogical Society Annual Meeting Minerals for Life: Living with Resource Constraints  (University of Edinburgh)

• The Mineralogical Society of Great Britain & Ireland (MSGBI) Applications are invited for a number of travel bursaries which are to be awarded by the Society. There are two kinds:

**Postgraduate Student Bursary awards** The purpose of these awards is to support academic work by allowing attendance at overseas conferences and meetings; encouraging international collaboration involving research of high merit; or supporting fieldwork. The next deadline for receipt of applications is 11th January 2013. Details at <http://www.minersoc.org/postgraduate-bursaries.html>.

**Senior Travel Bursary awards** The purpose of these awards is to support academic work by: allowing attendance at overseas conferences and meetings; encouraging international collaboration, involving research of high merit; or supporting fieldwork. The next deadline for receipt of applications is 11th January 2013. Details at <http://www.minersoc.org/senior-bursary.html>.

• The Mineralogical Association of Canada (MAC) have awards travel and research grants to assist honours undergraduate and graduate students in the mineral sciences to present their research at a conference, visit a facility, laboratory, or field area to gather data for their research, or to pay for analyses or equipment for an independent research project that will complement their main research project. **Deadline for application: every mid-January**


**Foundation Scholarship:** Two CAN$5,000 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 honours undergraduate and graduate students in the mineral sciences. **The maximum grant value is CAN$1,200 per student.** Grants will fund up to 50% of costs incurred for registration, travel and subsistence, and up to 100% of other research costs (e.g., equipment, analyses). Quotations and receipts may be requested for any equipment purchased.

**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

• **Goldschmidt2013** will be held in the Firenze Fiera Congress Center in Florence, Italy, on August 25-30, 2013. The conference website is <http://goldschmidt.info/2013/index>. **Session proposals are due October 2012.** There will be **student travel grants** for those whose abstracts are accepted, details will appear on the Geochemical Society website <http://www.geochemsoc.org/>.
• The **50th Anniversary Annual Meeting of The Clay Minerals Society** is 6-10 October 2013 at the University of Illinois, Urbana, Illinois, USA. The conference website is <http://goldschmidt.info/2013/index>. The Clay Minerals Society (CMS) invites applications for its **2013 CMS student research and travel grants**. Several grants of up to $3,000 are made annually. More information and online application on the CMS website, <http://www.clays.org>.

• The Mineralogical Society of America (MSA) invites applications for the **2014 MSA Grant for Research in Crystallography** and for the **2014 MSA Student Research in Mineralogy and Petrology**. There are three research grant awards of $5,000 each. Students, including graduate and undergraduate students, are encouraged to apply. Application deadline is June 1, 2013. 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>.

• Nominations are sought for MSA awards. You need not be an MSA member to nominate someone for the **2014 Roebling, Dana, and Distinguished Public Service Medals** or **MSA Award**. More information and nomination procedures on the MSA home page <http://www.minsocam.org>.

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**Remember, come year-end:**
Renew your MGPV Division membership when you renew your GSA membership.
Encourage your MGPV-interested colleagues to join.
The easiest time to join or renew your membership in a Division is at renewal time!
Division Management Board

Officers

Chair (2012)
Russell S. Harmon
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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
MGPV Elections

You may vote either online or by paper ballot:

*Paper ballot by mail or fax.* Please vote by completing the ballot at the end of this section and mailing it to Division Office, Geological Society of America, PO Box 9140, Boulder, CO, 80301-9140, USA. It must be postmarked no later than August 31. You may also submit your completed ballot by fax to +1 (303) 357-1074.

*Online.* You may vote online by August 31 at:

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

Access the online ballot by using either your GSA member number or your e-mail address that is in your GSA member records. For membership assistance, please contact GSA at: <gsaservice@geosociety.org> or call +1 (888) 443-4472.

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

Biographical information on the candidates:

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

**Diane Smith**, Ph.D. 1984, Rice University. Dr. Smith is currently Chair and Professor of Geosciences at Trinity University in San Antonio, TX. She is an igneous petrologist/geochemist with research interests ranging from modern subduction-related magmatism to Proterozoic granitoids. She has mentored 25 undergraduate researchers and (co-)authored more than 40 journal articles and conference presentations. She teaches undergraduate courses in Volcanology, Earth Materials and Geochemistry. Dr. Smith served two terms on the Geology Division of the Council for Undergraduate Research and is a member of MSA and AGU. She has been a GSA member since 1985 and was elected Fellow in 2008. Past service to GSA includes chairing the 2005 South-Central section meeting and serving as Councilor (2006-10) and Member-at-Large of the Executive Committee (2009-10). During her term as Councilor, Dr. Smith was Liaison to the Sections and served on the ad hoc Committee on Integration of Sections and Divisions. Dr. Smith welcomes the opportunity to serve the MGPV and would work to sustain the momentum established by this new division. Her priorities would be to encourage and promote MGPV-sponsored sessions and field trips at the
annual and section meetings, to establish effective communication and collaboration among the Associated Societies, Sections and the MGPV, and to develop a strong financial base to support division activities and programs.

For Office of Secretary-Treasurer (2 year term)

J. Alex Speer, BS 1970, Franklin and Marshall College, MS 1973 and PhD 1976, Virginia Polytechnic Institute and State University. Previous positions: Manager of Research and Development Electro-Tec Corporation, Asst. Prof. North Carolina State University. Dr. Speer is currently Executive Director of the Mineralological Society of America, Chantilly, VA. He is an MSA Fellow and is a member of GSA, AGU, and the Geological Society of Washington. His research interests have included mineralogy, igneous and metamorphic petrology, radon hazards, low-temperature geothermal energy resources, electrocrystallization, and tribology. Geologic areas of interest included the Nain anorthosite complex, Labrador and the 300 Ma granites of the southeastern United States. Dr. Speer has served on the Steering Committee and Board of Directors of GeoScienceWorld, and is MSA’s representative to GSA and AGI. His priorities is the efficient running of MGPV so that members can focus on organizing and supporting sessions, field trips, and other Division events at the annual and section meetings, and to promote collaboration among the MGPV Division, MGPV-related Associated Societies, and GSA Sections and other Divisions.
MEMBERS OF GSA
MINERALOGY, GEOCHEMISTRY, PETROLOGY, AND VOLCANOLOGY (MGPV) DIVISION
Ballot for 2012 - 2013 Officers MGPV Division

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

Balloting will be open through August 31. Ballot link to vote through on-line system:

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

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

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Second Vice-Chair (one-year term):
( ) Diane Smith
( ) Write-in __________________________

Secretary-Treasurer (two year term):
( ) J. Alex Speer
( ) Write-in __________________________

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

You must complete the following section to validate your ballot:

Your Name (printed) __________________________

Your Signature (required) __________________________

Your GSA Member Number * (required) __________________________

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