

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

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Message from the Chair

Dear GSA MGPV members,

I hope the new year is off to a good start. The focal point of the year will be the GSA 2024 Annual Meeting, 22-25 September in Anaheim, California. Many interesting science sessions have been proposed for the annual meeting, covering a wide range of MGPV disciplines, and we haven't even reached the February 5 session proposal deadline yet. One highlight is the repeat offering of last year's very successful MGPV student-only session. Another is the special MGPV Division awards session to honor our 2024 awardees: Distinguished Geological Career Award (DGCA) recipient J. Michael Rhodes and Early Geological Career Award (EGCA) recipient Chris Yakymchuk. During the MGPV awards session we will also highlight the Division's student awardees, both research awards and travel grants.



I believe that the most important thing that MGPV does is encourage the next generation of MGPV scientists, through research grants, travel awards and building community through special sessions and social events at meetings, and webinars. Student research awards, including the Lipman and Carmichael Student Research Grants, are supported by the Division's scholarship funds, and student travel awards are supported by the James B. Thompson endowment. Last year we awarded 40 student research grants (of 103 proposals), totaling US\$103,342, and ten student travel grants (of 26 applications), totaling US\$5,000.

Congratulations to the winners, but we should note that there were, once again, many very strong proposals. We look forward to a new batch of student awardees to be named in time for the

Summer 2024 field season. Thank you to this year's generous donors, and please consider donating in 2024 to help students in future years!

I'd like to thank the rest of the MGPV leadership team – Past Chair Amanda Clarke, and our Joint Technical Program Committee (JTTC) representatives, vice chair Elisabeth Widom and second vice chair Jade Star Lackey. We also want to thank our student representatives for their outstanding service: Madeline Murchland, Charles (Chuck) Lewis, and Emily Fischer. Please vote in the logo competition, which closes February 16! Another huge thank you to Alex Speer for his invaluable efforts as MGPV Secretary-Treasurer - as this year is flying by and the leadership team rotates into learning new tasks, he is the reliable foundation upon which MGPV is built.

I will close with our annual reminder: MGPV needs your active support to continue to represent our community at GSA. We continue to be the largest GSA Division, and our strong Student and Early Career membership (662 students and 122 Early Career, out of 1549 total members as of January 2024) bodes well for the future. We encourage you to take the time to nominate those who represent the best in our field for the Distinguished Geologic Career and Early Career Awards. Please encourage your students to apply for grants. And, most importantly, please renew your membership in GSA and MGPV each year and encourage others to join as well.

Best wishes for the year ahead,
Alan Whittington

Chair (2023), GSA Mineralogy, Geochemistry, Petrology and Volcanology Division
Department of Earth and Planetary Science, University of Texas at San Antonio

New and re-elected MGPV Officers

Chair 2024. Alan Whittington is a Professor in the Department of Earth and Planetary Sciences at the University of Texas at San Antonio. He completed a B.A. in Earth Sciences at the University of Cambridge (UK), a PhD in Earth Sciences at the Open University (UK), and post-doctoral positions at the Institute de Physique du Globe de Paris (France), the CEMHTI-CNRS (Orléans), and the University of Illinois at Urbana-Champaign. He was at the University of Missouri-Columbia from 2002-2019 including serving as Department Chair from 2014-2019. His research interests include heat and mass transfer in magmatic systems, measurement of rheological and thermal properties at high temperature, emplacement of lava flows and domes on Earth and other planets, and in situ resource utilization on the Moon. Alan is an Associate Editor for *Geosphere* (2014-present) and *Volcanica* (2020-present), has been a member of GSA since 1999, and was elected a Fellow in 2017. He is also a member of AAAS, ACerS, AGU, IAVCEI, MSA, NAGT, Sigma Xi, and the Society of Rheology.





First Vice-Chair 2024. Elisabeth (Liz) Widom is the Janet & Elliot Baines Professor of Geology and Environmental Earth Science at Miami University (Ohio), where she has served on the faculty for 25+ years. She received a B.A. in Geology from Cornell University and a Ph.D. in Geology from the University of California, Santa Cruz. She held Postdoctoral Fellow positions at the Carnegie Institution of Washington's Department of Terrestrial Magnetism and at the National Institute of Standards and Technology. At Miami, she served as Graduate Director for 15 years, and has served as Department Chair for almost years. Widom's research utilizes geochemistry, including diverse isotopic systems, to address problems in mantle evolution, volcanic processes and timescales, environmental pollution, and nuclear forensics. A major focus of current research relates to the

processes and timescales governing monogenetic volcanic systems.

Widom joined GSA in 1986, has served on the GSA MGPV Early Career Award Committee, and has been the GSA Campus Representative to Miami University since 2014. She has been a longstanding member of AGU, IAVCEI, IAGC, and the Geochemical Society. She has served on the editorial board of the *Journal of Volcanology and Geothermal Research*, and currently serves on the editorial board of the *European Journal of Mineralogy*. She has served on panels for three different programs at NSF, and on external review teams for site visits to five national labs. She is currently serving on the Geochemical Society Program Committee, the IAGC Council, and the IAGC Finance Committee.

Second Vice-Chair 2024. Jade Star Lackey is Professor and Chair of the Geology Department at Pomona College in Claremont, CA. He earned his B.A. in Geology at Middlebury College, and M.Sc. and Ph.D. from the University of Wisconsin–Madison. After a stint at the College of Wooster, Lackey joined the faculty at Pomona College in 2007 where he teaches the Mineralogy-Petrology sequence and electives in Geochemistry, and Natural Resources. He has been involved in the Keck Geology Consortium for nearly two decades, including leading research projects in the US and Canada.



Jade Star's research in igneous and metamorphic petrology engages undergraduate students from all five of the Claremont Colleges, and commonly partners with colleagues and grad students at larger universities in the U.S. and internationally. The Pomona petrology group employs a range of petrographic, geochemical, and isotopic tools, especially light stable isotopes.

Jade Star devotes a much of his energy to studies of magma-wall rock interactions in Cordilleran-type batholiths - most notably the Sierra Nevada - at scales from porphyroblasts to plutons. His recent studies of skarn deposits have probed questions of carbon mobility in arcs while considering modes of base metal endowment, and even questions of paleogeography. Lackey directs the XRF and XRD labs at Pomona and spearheaded founding of the Pomona's Oxtoby Isotope Laboratory in 2016. He has served on editorial boards of *American Mineralogist* and *GSA Bulletin*. He has been a member of GSA since 1996, was elected a Fellow of GSA in 2022, and holds memberships in MSA, SEG, IAG, NAGT and GS. Jade Star is particularly motivated to help

the National Park Service bring, to visitors, the remarkable stories contained in the rocks Sequoia and Kings Canyon National Parks. He also volunteers to help Sierra Nevada historic and preservations societies develop exhibits and conduct outreach programs.



Secretary-Treasurer 2024-2025 (2-year term). J. Alex Speer is now retired from being Executive Director of the Mineralogical Society of America, Chantilly, VA. He is an MSA Fellow and is a member of GSA and AGU. 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. His priority 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.

Aside from the operation of MGPV, much of his time is spent is organizing the archive of MSA but is now devoting a greater amount of time to assembling and presenting mineral-related exhibits at professional meetings and rock, mineral, and gem shows. The latter means the public, which includes both those interested in minerals as well family and friends who have been dragged along to the shows that can be attracted to exhibits that relate to their lives.

Call for 2025 Award Nominations: Nomination Deadline: 31 March 2024

MGPV Division Distinguished Geological Career Award (for 2025)

The MGPV Distinguished Geological Career Award goes 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.

MGPV Division Early Geological Career Award (for 2025)

The MGPV Early Geological Career Award goes 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). The 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, childbirth, 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.

Practical

The Award: The awards consist of a recognition plaque, a \$1,000 cash award, and some travel assistance. The Awards are presented at an MGPV Division special session at the Annual Meetings of the Geological Society of America, with a brief (5 minute) citation from the nominator, a brief (5 minute) acceptance speech by the awardee and followed by a technical presentation by the awardee.

Nomination Procedure: Nominations will be from the Division membership at large and include: (1) A nomination letter from an MGPV Division member, (2) Curriculum Vitae of the nominee, and (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. Nomination details are online for the [Distinguished Geological Career](#) and [Early Geological Career](#) Awards.

2023 MGPV Division Distinguished Geological Career Award to Katharine Venable Cashman: Citation and Acceptance

Citation by Rebecca Lange, University of Michigan, Ann Arbor, MI
October 18, 2023

It is a great pleasure to introduce Kathy Cashman as the 2023 recipient of the MGPV Distinguished Geological Career Award. Over her accomplished career, Kathy has made several key contributions to the fields of volcanology and petrology, while at the same time training numerous graduate students, many of whom have gone on to have highly successful careers, highlighting her role as an inspiring mentor.

Kathy is perhaps best known for her pioneering methods to quantify the textures of volcanic deposits, connecting them to analog experiments, and thus showing how to extract rates of magma ascent, cooling, and degassing. These efforts have led to a deeper understanding as to why some magmas erupt effusively versus explosively. In addition, Kathy's insights have improved our understanding of how magmas ascend through the crust and the nature of their plumbing and storage architecture. Kathy's work is highly interdisciplinary, and she has been a leader in incorporating concepts and theory from the fields of material science, fluid dynamics, atmospheric science, ceramic engineering, hydrology, and geomorphology. In addition, she has consistently highlighted the incredible value of traditional Indigenous knowledge and oral traditions for unraveling eruption histories.

I have known and "talked rocks" with Kathy for more than 30 years, and I've read most of her papers. All of which leads me to suggest that there are four key qualities that have been foundational to her success. First, she is insatiably curious about the world around her, and is a voracious reader of an extremely broad scientific, historic, and artistic literature. Second, she is an exceptionally gifted writer and brings a remarkable clarity to complex, multidisciplinary topics. Third, she is fearless about asking and pursuing questions that she does not know the answer to. Fourth, and perhaps most importantly, Kathy is widely known for her enormous generosity, which takes on so many forms. One is with how freely she shares her original, often novel, ideas with her colleagues and especially her students. One reason why Kathy is so

generous with her ideas is because she has so many of them! We are so fortunate, as her collective colleagues in MGPV, to have this opportunity today to celebrate her many gifts and contributions to our field.

Acceptance by Katharine V. Cashman, University of Oregon
October 18, 2023

First and foremost, I would like to thank GSA, the MGPV Division, my letter writers, my nominator, and former student Heather Wright, and my citationist Becky Lange, for this wonderful honor. A career award is a time for reflection, for which I am also grateful; I hope that my acceptance speech and the associated presentation reflect this.

Serendipity is not unusual in directing volcanological careers, and in this regard, mine is no exception. From my first experience with active volcanism on Mt. Erebus, Antarctica, to the 1980 eruption of Mount St. Helens, which confirmed my career aspirations as volcanological, to the long-lasting eruption of Kilauea volcano, which for several decades provided an amazing field laboratory for lava flow studies, to the Iceland eruption that sent me to the UK, I have been lucky to pursue volcanological research up close, in the field, around the world, and in the company of an amazing group of volcanologists.

I can't possibly name and thank all the individuals who have helped me, taught me, collaborated and explored volcanoes with me along the way. Instead, I will thank them in groups, acknowledging the spectrum of interactions that we all enjoy over the course of our careers. I will start by thanking my family.

Many of you know that I come from a family of Earth scientists: we now span four generations. Most influential, however, have been my older sisters Pat and Sue: both have PhDs in structural geology and have led long and accomplished academic careers. Although I tried to forge a different direction (English literature, botany), I eventually succumbed to allure of field geology and a geological career thanks to summers of field assisting and the inspirational teaching of Peter Coney.

My mentors have come in many forms. My professors pushed me to think independently while at the same time teaching me the joy of shared discovery that has formed the mainstay of my career. And friendships formed during my PhD years with Gordon Grant and Siggi Gislason have lasted a lifetime. For my passion for volcanology, I thank those who have worked with me over the decades, sharing their cultures as well as their scientific knowledge.

Working with graduate students, however, has been the highlight of my career. I have learned as much from them as I have given, and I thank them all. With students I have shared adventures in the field, challenges in the lab and the excitement of discovery as we have strived, in the words of the poet A.R. Ammons, "to fasten into order enlarging grasps of disorder".

I end by calling out colleagues who I consider both friends and heroes, including Jim Kauahikaua and Maggie Mangan of the USGS; fluid dynamitists Michael Manga, Ross Griffiths, and Alison Rust; physical



Sue, Kathy, and Pat Cashman and Becky Lange

volcanologists Dick Fiske, Guido Giordano, Mauro Rosi and Raffa Cioni; historian Caroline Williams, and Bristol colleagues Jon Blundy and Steve Sparks – to them I give my heartfelt thanks.

2023 MGPV Division Early Career Award to Carolina Muñoz-Saez: Citation and Acceptance

Citation by Michael Manga, University of California-Berkeley
October 17, 2023

Carolina Muñoz-Saez has established herself as a global leader in studies of hydrothermal systems and their surface expression in the form of geysers. This includes pioneering studies of their mechanics, the deposits they form, and the life they host. Her papers embody the “multidisciplinary, field-based” criteria called out in the award description.

Why study geysers? First, they are a window into hydrothermal and epithermal processes. Second, they provide an opportunity to study eruption phenomena and processes in ways that are not possible at magmatic volcanoes. Third, geysers are fascinating natural phenomena and there remain many fundamental questions about their dynamics. Last, their deposits record unique information about paleohydrology and biology. Dr. Muñoz-Saez has made contributions to all these areas.



Carolina Muñoz-Saez
with citationist Michael Manga

I highlight a few her advances, all enabled by thoughtful integration of field observations and data with models and laboratory measurements. She made the first continuous measurements of pressure and temperature within geysers over many cycles and hence could document the thermodynamic conditions before, during and after eruptions. In so doing, she could address a long-standing debate (back to Bunsen in the early 1800s): do eruptions begin from the surface or initiate at depth? She showed that boiling occurs at the surface and how this sustains the eruption but, at the same time, how cavities at depth accumulate enthalpy in steam and its release allows boiling to occur at the surface. She documented and explained how geysers interact with each other. She confirmed that flow in these natural multiphase eruptions are close to the speed of sound. Her lab experiments showed how preplay (small eruptions) allow large eruptions to occur. She provided the first set of integrated physical properties measurements on silica sinter integrated with three-dimension microtextural measurements. At larger spatial scales, she collected large sets of geochemical data, isotopic measurements, and

temperature measurements to deduce the mass and energy budget for geothermal fields. Some of this work was enabled by the innovative use of drones to map otherwise inaccessible regions to show how topography affects geothermal systems. She also quantified the temporal evolution of geothermal systems over long-time scales. Dating deposits from geothermal systems is tricky because of contamination from old carbon – she showed how to recognize and account for this contamination in reconstructing the history of geyser fields.

In pursuing these studies, she had to undertake geological mapping, design, and test field instruments, perform lab experiments, do time series analysis, analyze isotope and geochemical data, make geophysical and physical properties measurements, work on synchrotron beamlines, and develop models for the fluid

mechanics and thermodynamics of geysers. She also had to coordinate field expeditions in remote settings and established productive and constructive relationships with indigenous communities.

Carolina Munoz-Saez exemplifies the vision of James B Thompson who endowed this award, who believed in the importance to geology of understanding minerals - both their internal characteristics, and their external "social lives". She further has exemplified Thompson's scientific integrity, modesty, and consideration for others. Her diagrams can be as elegant and insightful as Thompson's phase diagrams in his legendary thermodynamic class. We are looking forwards to her new ideas and discoveries.

Acceptance by Carolina Muñoz-Saez, University of Nevada-Reno
October 17, 2023

Thank you for your kind words, Michael, and for flying all the way back to Pittsburgh this morning just to be here as my citationist. I really appreciate all the years you have supported me and my work. I want to acknowledge the Geological Society of America and the MGPV Early Career Award Committee for giving me this honor. And a special thanks to those who sponsored my nomination: Professor Michael Manga, those that could not join us today Dr. Shaul Hurwitz of the USGS, Professor Benjamin Black from Rutgers University, and Professor Martin Reich of the Universidad de Chile.

Receiving this award wouldn't be possible without my mentors and collaborators, those who believed in my capabilities, inspired me along the way, and helped me reach my goals. I am especially grateful to my wonderful husband Seth Saltiel, and my two crazy kids that have been following me around the world to support my career. To my friends and family, I am extremely fortunate to have you all in my life.

I began my scientific career in Chile, one of the most geologically active areas in the planet. I remember how fascinated I was watching the glow of the Villarica Volcano every summer night in Southern Chile, and how exciting it was to feel the roar of earthquakes, like a big truck rushing by. Studying earth science fed my child-like curiosity with scientific explanations and opened a Pandora's box of knowledge - so many unsolved questions, and possibilities for new discoveries. I pursued volcanic hydrothermal systems because they integrated my passion for volcanic processes and groundwater circulation, and for societal application such as developing renewable energies and exploring metals. Gaining the opportunity to do my PhD in the US at UC Berkeley with Michael Manga has been one of the most rewarding experiences in my scientific career. I learned not only how to do and communicate science, but also how to build long term collaborations while reinforcing a strong scientific community.

In Chile, I was a gender minority in earth science. When I moved to the US, I became an ethnic minority as well. Today, it is an honor to represent those underrepresented groups in our field. I dedicate this award to all woman in science, including those with little kids that, like me, are struggling every day to maintain a healthy work/life balance. I want to recognize my Latinx community and people of color that are strongly underrepresented in STEM—especially earth science, and frequently must overcome social and cultural barriers to find their place in the academic world. To first generation college students who often struggle with academic and socio-economic issues. To immigrants who, for different reasons, have moved to this country to pursue their dreams, leaving behind family and friends to start all over again, from learning another language to creating a new supportive community.

I want to remind all of you, *especially* student and early career scientists, that you *belong* here. We are here for our capabilities and knowledge; not because we are checking a diversity box. Don't allow anyone, especially yourself, stop you from succeeding and fulfilling your goals. Don't let impostor syndrome take over your dreams. Personally, I have to overcome impostor syndrome often. For years, I thought I was accepted to UC Berkeley by mistake. This may sound like a joke now, but it is painfully true. Recently, when I was contacted about receiving this award, my first reaction was....ummmmm ...this must be a mistake...or a scam. Someone will ask me for my credit card number! Instead of believing in myself and trusting that my work is relevant, and I deserved an award, I got anxious. Of course, academia and life in general can be rough, with ups and downs. But our life experiences give us the skills we need to succeed; we are resilient, persistent, motivated, and inventive.

Never forget where you come from. Working together, we can make an easier path for new generations. Thanks to my graduate students and postdocs, I am becoming a better mentor every day, working on creating a respectful, collaborative, and welcoming environment for everyone. Together, we are discovering exciting new research avenues and opportunities for the future; a future where no one feels like an outlier.

Thank you.

2024 MGPV Awardees

MGPV is sponsoring a session at 2024 GSA Annual Meeting, Pittsburgh, PA, for our 2024 Distinguished and Early Geological Career Awardees to include citations, acceptances, and awardee lectures. Our awardees:

2024 MGPV Division Distinguished Geological Career Award to J. Michael Rhodes

The MGPV Division is pleased to announce that J. Michael Rhodes, University of Massachusetts, Amherst, MA is its 2024 MGPV Distinguished Geologic Career Awardee.

Dr. Rhodes received his B.Sc. (Honors) in Geology from University of Bristol, England (1959), M.Sc. (1966) and Ph.D. (1970) in Geology from the Australian National University, Canberra, Australia. He has been involved with the geological application of XRF analyses for almost 30 years.



Mike Rhodes has been interested in rocks, mountains, and the earth as long as he can remember. Educated initially in England, he began his professional career mapping and studying granites in the outback of the Northern Territory of Australia. Graduate studies followed at the Australian National University, where he used skills acquired in geochemistry and x-ray fluorescence analysis to understand the origin of granites. On coming to the United States, he established an x-ray fluorescence laboratory at NASA's Manned Spacecraft Center, Houston to analyze the returned lunar samples. As a Principal Investigator in the Apollo Lunar Program, his research focused on the study of lunar samples, particularly the volcanic rocks flooding the lunar mare basins.

Recognizing that x-ray fluorescence being used so effectively to study lunar rocks could be applied beneficially closer to home, once at the University of Massachusetts in 1978, he established the Ronald B. Gilmore X-ray Analytical Facility. He began a study of ocean floor basalts, including lavas dredged from the oceans' spreading ridges and samples recovered from the oceanic crust by the Deep Sea Drilling Project, and expanded his work to include the study of active volcanoes. He attempts to relate lava compositions and mineralogy to the historical record of eruption rates and volumes to understand quantitatively how a volcano works as well as the association of coeval mafic and silicic magmas. His current research focuses on the long-term magmatic evolution of Mauna Loa, Kilauea, and Mauna Kea volcanoes on the assumption that such studies are germane to an understanding of the scale, composition, dynamics, and processes of magma generation, movement and accumulation within the Hawaiian plume.

2024 MGPV Division Early Geological Career Award to Chris Yakymchuk

The MGPV Division is pleased to announce Chris Yakymchuk, University of Waterloo, Waterloo, ON Canada is its 2024 MGPV Early Career Awardee.

Dr. Yakymchuk received his BS in Earth Sciences (2008) from Dalhousie University, MS in Geological Sciences (2010) from Queen's University, and his PhD in Geology at the University of Maryland in 2016.

Chris Yakymchuk's research interests are in understanding the tectonic histories of mountain belts and the behavior of accessory minerals during metamorphism. He is particularly interested in the differences in geodynamic processes from the Archean to present and how these differences are manifested in the rock and mineral record. His research is broad and interdisciplinary, spanning igneous petrology, metamorphic petrology, and tectonics to understand orogenesis and the evolution of the continental crust. His work combines extensive fieldwork in challenging areas with detailed lab-based methods and integrates data from the micro-scale (mineral chemistry) to the macro-scale (mountain belts) linking the behavior of accessory minerals to metamorphic and igneous processes. He is also interested in fluid-rock interactions in the deep crust and applying the principles of igneous and metamorphic petrology to understand the petrogenesis of mineral deposits as well as cross-disciplinary studies that link the Earth sciences with other natural and social science disciplines. He has a strong publication record in topics relevant to MGPV, his publications are highly cited, and he has a strong record in student mentorship and demonstrated commitment to teaching, as well as a history of involvement with GSA.



MGPV Student Representative Activities

Three students continue as student representatives on the MGPV's Management Board: Madeline Murchland, University of Idaho, Moscow, ID; Charles (Chuck) Lewis, Oregon State University, Corvallis, OR, and Emily Fischer, Brown University, Providence, RI.

The role of the MGPV Student Representatives is to provide student perspectives on issues and activities related to the Division, seek input from other students in the Division, and communicate important information to student members. The goal is to achieve broad student engagement. The student representatives are voting members of the Management Board and are expected to participate in email and Zoom communications, and when possible, come to the annual meeting and participate in Division functions (e.g., business meeting, etc.). The students will also serve as MGPV representatives on GSA's Student Advisory Council (SAC).

- MGPV student representatives vitalized community interactions, events, and overall representation of the MGPV student body. Virtual webinars have been established within the last year for the purpose of transmitting critical information to graduate students. Topics have included insights on getting a career after graduation and how to navigate the graduate school. (Look out for the next one on critical minerals and society in April!). Social media channels (Twitter, Slack, LinkedIn) have also been activated to share content amongst the student community.
- Graduate student recruitment has been facilitated by the student representatives through the establishment of a [recruitment page](#) for potential advisors to advertise themselves and their projects. Personal communication amongst the MGPV board and their colleagues indicates the recruitment page was a monumental success. The virtual document will be maintained and updated on a yearly basis, so look out for the next solicitation.
- GSA Connects 2024 was preceded by a virtual meeting where students gathered to practice their presentations and receive feedback from peers. Furthermore, a first-time

attendees webinar geared to inform students how to get the most of the meeting was partially paneled by the MGPV student representatives and led by GSA staff.

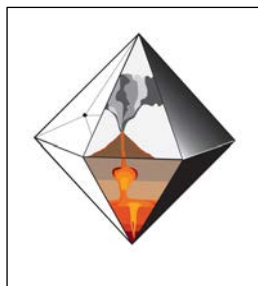
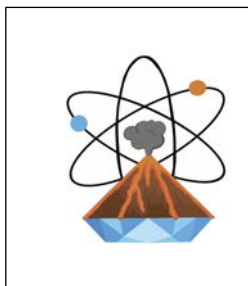
- At the GSA Connects 2024 meeting, the student poster session sponsored by the MGPV Division was stellar. Nearly fifty abstracts of rich scientific content were submitted and accepted, resulting in one of the larger poster sessions at GSA. A well-attended student organized mixer was held in the evening thanks to MGPV Division sponsorship.



MGPV student organized mixer at GSA Connects 2024.

- Finally, MGPV is updating its logo! Student representatives initiated a drawing contest for the new logo. In this newsletter, you can find the link to vote on the top three student drawings and take part in choosing your division logo.

***Logo voting link: <https://forms.gle/tds1QB9DyaiP2Jxo7>



MGPV at GSA Meetings

GSA Annual Meeting (Connects 2023), 9-12 October, Pittsburgh, PA

There were 5,283 attendees, 2,075 of whom were students, and 207 exhibitors.

Technical Sessions. The MGPV Division and its Adhering Societies endorsed and co-endorsed 74 Topical sessions (27 of which were poster sessions), 5 Disciplinary half-day sessions, and 2 Pardee Keynote Symposia. MGPV hosted its Awards Session on Wednesday, 18 October 2023. In addition, there were five technical sessions in honor of Katharine V. Cashman, Recipient of the 2023 MGPV Distinguished Geological Career Award. There was a special poster session organized by the MGPV students



that had over 40 posters: *T175. Mineralogy, Geochemistry, Petrology, and Volcanology Division: Session for Graduate and Undergraduate Students.*

Exhibit. MGPV had both a table and a booth in the Exhibit Hall of the Pittsburgh GSA Connects 2022. Division tables in the GSA Headquarters area were a new feature at these meeting. It allowed for an additional opportunity to publicize the Divisions, and GSA encouraged and subsidized the sales of Division-branded promotional merchandise. The MGPV table had a high level of traffic throughout the meeting, especially that of students, many of whom were new to the concept of the Divisions and were interested to learn about the MGPV research and travel grant opportunities and student-oriented activities. The merchandise sales, which included water bottles and T-shirts with the MGPV logo, were also a success. The booth was a shared space with the Mineralogical Society of America and had as the primary exhibit - *Minerals needed for electrical vehicle batteries.*



GSA Section Meetings (2023) Reston

MGPV had a booth shared with the Mineralogical Society of America and the Friends of Mineralogy, at the 2022 Northeastern & Southeastern Section Joint Meeting, Reston, Virginia, USA. Being in the Poster Hall generated a goodly amount of traffic. Section meetings are less hectic than the national meeting, so there are more opportunities to talk with the attendees.



GSA Annual Meeting (Connects 2024), 22-25 September 2024, Anaheim, CA

Official Themes for 2024: “Water in Our Changing World” and “Life Along an Active Margin”

• **Technical Sessions.** MGPV and its Adhering Associated Societies are endorsing several proposed sessions. MGPV will be organizing a session of citations, acceptances, and awardee lectures for the 2024 Distinguished and Early Geological Career Awardees.



The Abstract Deadline is **usually 1 August**. 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, MSUKI) 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 know to place your abstract in the most appropriate session.

• **Business Meeting.** The Division will have its required business meeting about the time the Annual GSA Meeting. The format will be virtual with the date and time yet to be decided. Business meeting present a brief update about the Division and an opportunity to ask questions or make comments.

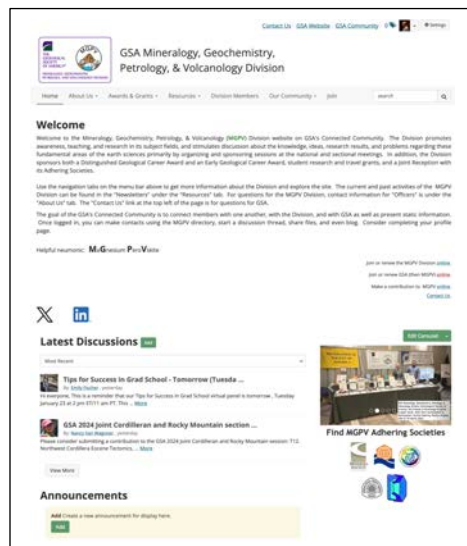
GSA Section Meetings (2024) Asheville

MGPV will have a booth in the Exhibit Hall of the 2024 Southeastern Section Meetings, 15-16 April 2024, Asheville, North Carolina, USA.

MGPV website: the GSA Connected Community

The Mineralogy, Geochemistry, Petrology, & Volcanology (MGPV) Division [website](#) is hosted on GSA's Connected Community. There is a (1) public portion of the MGPV website with the Division description, MGPV awards, resource library, newsletter archive, and events calendar as well as a (2) Division-member-only portion that includes a searchable Division directory and a discussion group.

All members of the MGPV Division are subscribed to the Daily Digest version of the MGPV Division's General Discussion Group. You will receive one e-mail every day containing the previous day's posts, if any. If you'd like to change that to no emails (you can view the discussion online but won't receive e-mail) or to real time (you will receive an email every time something new is posted), use the “Community Notifications” item in the “My Account” menu of your profile.

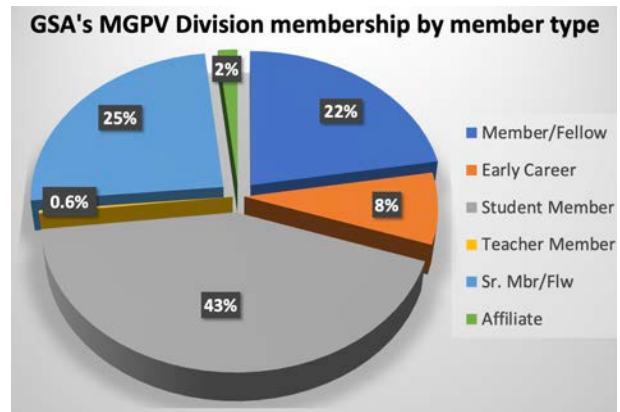


MGPV Division Organizational Items

• **Membership.** The Division grew rapidly initially after it was established in October of 2009.

In 2014, GSA instituted a policy wherein students can join their first Division at no cost. This dramatically increased MGPV membership, increasing student membership from about 30% to 60%. But another result was a loss of income. After 2014, the ups and downs in MGPV membership numbers more or less track changes in total GSA membership numbers.

GSA provided a variety of demographics about MGPV members that are shown in the accompanying tables. As of the end of August, 93.5% of MGPV members reside in North America. At 43%, students comprise the largest portion of MGPV member types. There is diversity in geographic Section membership though more MGPV members belong to the Cordilleran Section. 34% of MGPV members have been GSA members for 3 years or less, but for any subsequent time-period the membership numbers are relatively even at 7-14%. There is a wide range of MGPV members' professional interests and employment.



Mineralogy, Geochemistry, Petrology & Volcanology Division

Member Type	Total
Affiliate	27
Early Career Prof.	122
Graduate Student	330
Honorary Fellow	8
Professional	344
Sr. Mbr/Flw 65/25	114
Sr. Mbr/Flw 70/30	267
Student - No Data	116
Teacher Member	5
Undergraduate Student	216
Grand Total	1549

Country By Region	Total
Asia	24
Australia & Oceania	18
Central America & the Caribbean	4
Europe	29
Korea (the Republic of)	4
Middle East, North Africa, & Greater Arabia	7
North America	1448
South America	8
Sub-Saharan Africa	6
VIRGIN ISLANDS, US	1
Grand Total	1549

Ethnicity	Total
AIAN	5
AIAN,ASIAN,WHITE	1
AIAN,HISP,WHITE	2
AIAN,WHITE	7
ASIAN	73
ASIAN,BAA,HISP,NHPI,WHITE	1
ASIAN,HISP	3
ASIAN,MENA	1
ASIAN,NHPI	1
ASIAN,WHITE	13
BAA	27
BAA,HISP	2
BAA,HISP,WHITE	1
BAA,WHITE	1
HISP	63
HISP,WHITE	13
MENA	7
MENA,WHITE	2
NA	198
NA,WHITE	3
NHPI	1
WHITE	1124
Grand Total	1549

Employment	Total
Engineering	15
Environmental	21
Federal	75
Four-year University/College	325
Minerals	35
Oil/Gas	17
Other	43
Retired	237
Self-Employed/Consultant	58
State/Province	19
Student	647
No Data/Other	10
Two-year College	13
Unemployed	8
City/County	6
Energy (Other)	5
Secondary	5
Administration	1
Hydro	2
Museum/Science-Technology Center	7
Grand Total	1549

Professional Interest	Total
Archaeological Geology	26
Biogeosciences	17
Climatology/Meteorology	11
Economic Geology	201
Energy Geology	57
Engineering Geology	32
Environmental Science	94
Geography	12
Geoinformatics	17
Geology and Health	17
Geophysics/Tectonophysics	55
Geoscience Education	89
Geothermal	31
History/Philosophy of Geology	12
Hydrogeology/Hydrology	40
Karst	9
Limnogeology	5
Marine and Coastal Geosciences	30
Mineral/Geochem/Petrology/Volcanology	1151
No Data/Other	2
Other	22
Paleo Sciences	45
Planetary/Space Science	127
Policy/Regulatory	6
Quaternary Geology/Geomorphology	33
Seismology	4
Soil Science	5
Stratigraphy/Sedimentology	42
Structural Geology/Tectonics	276
Grand Total	2468

Fellow	Total
No	1301
Yes	248
Grand Total	1549

Section	Total
CORD	548
CORD2	1
NC	233
NC2	1
NE	303
None	123
RM	348
RM2	2
SC	143
SE	209
Grand Total	1911

Years Member	Total
0-3 years	527
10-19 years	209
20-29 years	115
30-39 years	172
40-49 years	133
4-5 years	157
50+ years	122
6-9 years	114
Grand Total	1549

Gender	Total
Man	918
Non-binary	22
Prefer not to a	70
Woman	539
Grand Total	1549

- **Finances.** (2022-2023, GSA's and the Division's fiscal year run July 1 through June 30):

As of 30 June 2023, MGPV had an unrestricted cash balance of \$32,455.69.

Income

Dues income was \$6,507.48. This is a significantly less than previous 12-month periods: \$7,128.13 (2021-2022), \$7,129.16 (2020-2021), \$7,336.30 (2019-20), \$7,626.86 (2018-2019), \$7,556.65 (2017-2018), and \$7,437.98 (2016-2017).

The Division received \$16,000 in transfers from the James B. Thompson, Jr. Fund of the GSA Foundation to support 3 student research grants, 10 student travel grants, and the awards and travel expenses for the 2023 Distinguished Geological Career and Early Career Awardees. For the 2023 student research grants, the Lipman Research Fund provided \$87,500, the Hollister Graduate Student Research Awards Fund \$2,260, the Ian S.E. Carmichael Research Award \$1,820, and the GSA Foundation \$1,170. The latter was to make up the short fall in the Carmichael and Hollister Research Awards.

Expenses

Division expenses during this period were \$78.00 for AV services, meeting, postage, shipping, and freight. \$7,000.00 was dispersed from the Thompson Fund for the DGCA and EGCA awards, and student and awardee travel support. \$98,830 was dispersed for student research grants from the Lipman, Hollister, Carmichael, and Thompson Funds. There were no reception expenses for either the GSA 2022 Connects or the upcoming GSA 2023 Connects meetings. This is a savings of about \$5,000 (this is 1/3 of the total remaining cost after ticket sales with that balance due shared among MGPV, GS, and MSA).

Liabilities

none

- **Endowments**

Each year the MGPV contacts the research grant fund donors, thanks them, and gives the links to that year's Lipman, Carmichael, Hollister, and MGPV student research grant awardees' profiles written by the awardees themselves.

- **Annual Business Meeting (for MGPV members)**

MGPV Annual Business meetings for members are now virtual. They do NOT require being present at the GSA Annual Meetings to attend. The 2022 meeting was 3 October and presented the state of MGPV, a condensed version of what is covered in [MGPV's Annual Report](#) to GSA Council, but, more importantly, provided an opportunity to ask questions of the elected officers.

- **Committee and Appointed Post Volunteers:**

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 **Officer Nominations 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.

The **Student Research Grants** and the **Student Travel Grants** evaluate proposals for the respective grants.

The **Program Committee (= JTPC Representatives)** is a standing GSA-wide committee. It plans and arranges for the technical sessions and symposia at the Annual and Sectional Meetings of the Geological Society of America, and other external meetings. The Division members are there to provide MGPV expertise.

We thank the following individuals who volunteered for MGPV between 1 September 2022 – 31 August 2023

MGPV Distinguished Geologic Career Award (2024 award)

Alan Whittington (Chair), University of Texas at San Antonio, Dawnika Blatter (2022-2024), US Geological Survey, Peter LaFemina (2022-2024), Pennsylvania State University, Cailey Condit (2021-2023), University of Washington, Gregory Dumond (2021-2023), University of Arkansas, Pamela Kempton (2023-2025), Kansas State University, Frank Tepley (2023-2025), Oregon State University

MGPV Early Geologic Career Award (2024 award)

Elisabeth Widom (Chair), Miami University (of Ohio), Karen Bemis (2021-2023), Rutgers State University, Loÿc Vanderkluyzen (2021-2023), Drexel University, Munir Humayun (2023-2024), Florida State University, Tyrone Rooney (2023-2024), Michigan State University, Becky Lange (2023-2025), University of Michigan, Paul Tomascak (2023-2025), State University of New York at Oswego

Nomination for Officers (for 2023 election)

Dennis Newell (Chair), Utah State University, Rosemary Capo, University of Pittsburgh, Rosemary Hickey-Vargas, Florida International University.

Student Research Grants (for 2023)

Past Chair: Dennis L. Newell (Chair), Utah State University, Chair: Amanda B. Clarke, Arizona State University, 1st Vice-Chair: Alan Whittington, University of Texas-San Antonio, 2nd Vice-Chair: Elisabeth Widom, Miami University (of Ohio)

Student Travel Grants (for 2023 GSA Meeting)

Chair: J. Alexander Speer, Mineralogical Society of America, Alan Whittington, University of Texas-San Antonio, Elisabeth Widom, Miami University (of Ohio), Kevin Murphy, Mineralogical Society of the United Kingdom and Ireland

JTPC Representatives (for the 2023 meeting)

Alan Whittington, University of Texas-San Antonio, Elisabeth Widom, Miami University (of Ohio), J. Alexander Speer, Mineralogical Society of America

Council Liaison: J. Wright Horton Jr., U.S. Geological Survey

• **MGPV Election 2024**

The 2024 election will be held during August. The position of 2nd Vice-Chair will be on the ballot.

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.

• **Contributors** (2022-2023 fiscal year)

There are several permanent Funds that provide a source of income for the student research and travel grants and recognition awards programs offered by the MGPV Division. Some are single donor gifts or bequests, but many members contribute to the MGPV Division each year by including a contribution with their dues. We want to extend our gratitude to those who helped support the Division:

Lipman Research Fund: Peter W. Lipman and the Lipman Family Foundation Inc. and Monica G. Easton, Cynthia A. Gardner, Shari A. Kelley, Charles T. Lewis, Gary S. Michelfelder, Alyssa Pascoe, Michael P. Poland, Jeffrey G. Ryan, Eugene I. Smith, Alan L. Swenson, John A. Wolff

The James B. Thompson Jr. Fund: estate of Dr. James B. Thompson, Jr.

MGPV Division Fund: Madison X. Betts, Michael Brown, Rosemary C. Capo, Thomas V. Dagenhart, Rache Echevarria, Rosemary Hickey-Vargas, William R. Holly, Abram Z. Jeremenko, Dhurba Kandel, Richard A. Ketcham, Jeffrey S. Lee, Xiyao Li, Andrea Magli, Virginia T. McLemore, Calvin F. Miller, Michael R. Perfit, John A. Speer, Sandra Underwood

Ian S.E. Carmichael Research Fund: Maureen D. Feineman, Michael F. Roden, Thomas Sisson, Johan C. Varekamp

The Lincoln S and Sarah W. Hollister Graduate Student Research Awards Fund: John R. Bowman, John F. Casey, Christopher G. Daniel, Lydia K. Fox, Peter I. Nabelek, Terry L. Pavlis, Jane Selverstone, James D. Wright

• **Giving to MGPV**

You can donate to the MGPV Division when you renew but also at any other time at [GSA Foundation's online giving page](#). Income from these funds provide for a range of student research and travel grants and recognition awards. Some are gifts or bequests, but many members contribute to the MGPV Division each year by including a contribution with their dues. Enter a donation amount and then select "Mineralogy, Geochemistry, Petrology, and Volcanology" from the "Category or Area of Interest" pull-down menu. There are several other permanent Funds that provide a source of income for critical programs and services offered by the MGPV Division: Lipman, Carmichael, and Hollister.

Announcements

from MGPV:

[1] Consider nominating deserving candidates for MGPV Division's Distinguished Geologic Career and Early Career Awards. Procedures and deadline (31 March 2024) for nominations are given on the [MGPV Division's Connected Community site](#).

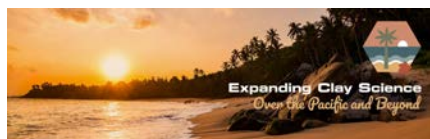
[2] MGPV will have booths in the Exhibit Halls of the 2024 Southeastern Section Meeting 15-16 April 2024, Asheville, North Carolina, USA and the 2024 GSA Annual Meeting, 22-25 September in Anaheim, California, USA.

from the Adhering Associated Societies:

• The Joint Annual Conference of the Geological Association of Canada and **Mineralogical Association of Canada** will be held 19-22 May 2024 at Brandon University, Manitoba, Canada. This meeting will include all the expected GAC and MAC programming and the 10th International Symposium on granitic pegmatites with field trips and special sessions. The theme of the meeting is "At the Heart of the Continent." See the MAC [website](#) for information.



The Mineralogical Association of Canada funds two annual scholarships to graduate students: Cdn\$3,000 scholarship to a student enrolled in an MSc program and Cdn\$5,000 scholarship to a student in a PhD program. These scholarships are available to graduate students in the following fields of study: Mineralogy, Crystallography, Geochemistry, Mineral deposits, and Petrology. [Application](#). Deadline is 1 May 2024.



• The 61st Annual conference of **The Clay Minerals Society** is a joint meeting with the Asian Clay Groups will take place in Hawaii 3-7 June 2024. [Details](#).

• Nominations for the CMS 2024 Awards and applications for the CMS Student Research and Travel grants are due 1 March 2024. [Details](#).

• [Goldschmidt 2024](#). The next Goldschmidt Conference®, organized by the European Association of Geochemistry and the **Geochemical Society**, will take place in Chicago, Illinois and online from 18-23 August 2024. For the third year, the Geochemical Society and European Association of Geochemistry plan to organize the Goldschmidt Conference as a hybrid meeting. This format makes for a more inclusive conference, enabling a greater number of delegates to participate. In a change from past conferences, in 2024 oral sessions will be available in person and by recording, but not via live video conferencing (Zoom). [Registration](#) and details are now available. The [abstract submission](#) deadline is 29 March. Students and early career researchers should take note of [grant opportunities](#).



• **Mineralogical Society of America (MSA)**. Nominations are sought for the [Roebling](#) and [Dana](#) Medals and [MSA Award](#). You need not be an MSA member to nominate someone. Nomination deadlines are 1 June 2024.

• The Mineralogical Society of America (MSA) invites applications for the [2024 MSA Grant for Research in Crystallography](#) and for the [2024 MSA Student Research In Mineralogy and Petrology](#). There are up to three research grant awards of \$5,000 each. Application deadline is 1 March 2024. Awardees must be MSA members.

• 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. Nominations can be made at any time.

• The Mineralogical Society of Great Britain & Ireland (MSGBI) has a new name – the **Mineralogical Society of the United Kingdom & Ireland (MSUKI)** 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. 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.](#)



Registration for the **Metamorphic Studies Group's** 2024 Research in Progress ([MSG-RiP 2024](#)) meeting, being held at the University of Bristol from 27-28 March 2024 (with an optional short course on 26th March 2024) is now open.

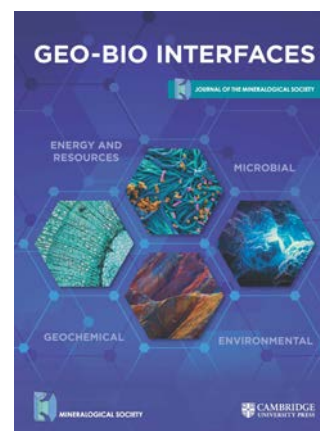
The 4th European Mineralogical Conference will be hosted by the Mineralogical Society of the United Kingdom and Ireland at Trinity College Dublin 18–23 August 2024. The conference Programme at <https://emc-2024.org/programme/> includes a session in the Mineralogical Crystallography section on “*The Testimony of the Minerals: A Celebration of Edward S. Grew at 80*” convened by Barbara Dutrow, Robert Hazen, Gerhard Franz, and Jesse Walters. The co-conveners will soon be posting this session on the mineralogy and petrology listservs to invite the submission of abstracts for presentations. The abstract deadline is 30 March 2024. Online registration is now open.



Support opportunities: [Hazel Prichard Student Bursary](#) supporting geological fieldwork application (deadline 15 February) and [travel grants](#) (Senior Travel, Postgraduate Student, and Special Interest Group Bursaries).

Award nomination deadlines are all 15 April 2024 for: [Neumann Medal](#) (mineralogy and its applications), [Collins medal](#) (mineral sciences and associated studies), [Max Hey medal](#) (mineralogy, crystallography, petrology or geochemistry), and [Barrow Award](#) (metamorphic studies).

2024 marks the first of the MSUKI new journal, Geo-Bio Interfaces. Check out the first content at www.cambridge.org/gbi. Be sure to set up a TOC (table of contents) alert so you can be informed when new content is published.



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>

MGPV Division Management Board

Officers: 5 Members; Chair, 1 year; First Vice-Chair, 1 year; Second Vice-Chair, 1 year; Secretary-Treasurer, 2 years; immediate Past Chair, 1 year

Management Board: 6 Members; consists of the Division officers and Student Representative. The Management Board of the MGPV Division also includes representatives of the Adhering Societies. (Any Associated Society of the Geological Society of America which is in good standing may become an adhering Associated Society member of the Division.)

Officers

Chair (2024)

Alan Whittington
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Emily Fischer
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Adhering Society Representatives

Clay Minerals Society (CMS)

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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: J. Alex Speer

Webmaster: J. Alex Speer

GSA Council/Division Liaison

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