

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

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Message from the Chair

Dear GSA MGPV members,



Welcome to a new year of stimulating GSA activities and events. We in the MGPV leadership are excited to interact with the membership with more in-person activities this year, including the GSA 2023 Annual Meeting October 15 – 18 in Pittsburgh, Pennsylvania.

First Vice Chair Alan Whittington and I will convene a special MGPV Division awards session to honor our 2023 awardees: Distinguished Geological Career Award (DGCA) recipient Katharine V. Cashman and Early Geological Career Award (EGCA) recipient Carolina Munoz-Saez. Many interesting science sessions have been proposed for the annual meeting, covering a wide range of MGPV disciplines, including special topical sessions to honor Professors Cashman and Munoz-Saez. During the MGPV awards session we will also highlight the Division's student awardees. Student travel awards are supported by the James B. Thompson endowment, and research awards, including the Lipman and Carmichael Student Research Grants, are supported by the Division's scholarship funds. Thank you for your generous contributions! Last year we awarded 29 student research grants (of 101 proposals), totaling US\$72,500, and ten student travel grants (of 56 applications), totaling US\$5,000. Congratulations to the winners and everyone who put together wonderful proposals and applications; your excellent efforts make our decision process very difficult! The deadline this year is February 3 and we look forward to a new batch of student awardees to be named in time for the Summer 2023 field season.

I'd like to acknowledge the rest of the MGPV leadership team – Past Chair Rosemary Capo, outgoing Chair Dennis Newell, and our Joint Technical Program Committee (JTPC)

representatives Alan Whittington and second vice chair Elisabeth Widom. We also want to thank our outgoing student representatives for their service, Chioma Onwumelu and Lindsey Hernandez. We welcome our new representatives, Madeline Murchland, Charles (Chuck) Lewis, and Emily Fischer who will continue to engage students and young researchers through innovative events and social media communication. Look for more news from them soon. And, last but not least, a special thanks goes to Alex Speer for his invaluable efforts as MGPV Secretary-Treasurer; he guided us through the complexity of the last three years, making all MGPV Division events, awards, and grants possible.

I'll 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 (700 students and 137 Early Career, out of 1712 total members as of January 2023) 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](#). And, most importantly, please [renew your membership](#) in GSA and MGPV each year and encourage others to join as well.

Best,

Amanda Clarke

Chair (2023), GSA Mineralogy, Geochemistry, Petrology and Volcanology Division

School of Earth and Space Exploration

Arizona State University

New MGPV Management Board Members

New MGPV Officers

Chair 2023. Amanda Clarke is an Associate Professor in the School of Earth and Space Exploration at Arizona State University. She completed a B.S. in aerospace engineering at the University of Notre Dame, a year of research in the Philippines under the Fulbright Scholar program, a PhD in Geosciences at Penn State, and a post-doctoral fellowship funded by the Royal Society of London at the University of Bristol. Her research interests include the physics of volcanic eruptions; field and satellite observation of plumes and domes; volcano deformation; highly explosive basaltic volcanism; interpretation of volcanic deposits on Earth, Moon, and Mars; volcano geomorphology; and the interaction between volcanic plumes and Earth's atmosphere. Field sites include the Soufrière Hills volcano (Montserrat), several volcanoes in Indonesia, and volcanic fields in the US and Mexico, among others.



She was a member of the Committee on Improving Understanding of Volcanic Eruptions, which wrote the National Academies of Science ERUPT Report, was elected secretary of the Volcanology, Geochemistry and Petrology section of the American Geophysical Union (2015-2017), and has served on commissions of the International Association of Volcanology and Chemistry of the Earth's Interior (2009-2015), and on the National Academies US National Committee for the International Union of Geodesy and Geophysics (2017-present).

At ASU she has advised 15 graduate students, five post-doctoral scholars, and six undergraduate student researchers. She has served on the Promotion and Tenure committee, chaired the graduate student oversight committee, and is now a member of the undergraduate committee. She recently became a one-year Leadership Fellow for the ASU ADVANCE Program, as part of a team developing university-wide mentoring protocols for faculty from underrepresented groups in STEM.



First Vice-Chair 2023. Alan Whittington is a Professor in the Department of Geological 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 lava flows on Earth and other planets, and in situ resource utilization on the Moon. He has advised 19 graduate students, 1 post-doctoral

scholar, and 15 undergraduate student researchers. Alan is an Associate Editor for *Geosphere* (2014-present) and *Volcanica* (2020-present) and has been a review panelist for NASA and NSF. He served on the Missouri Department of Higher Education Curriculum Alignment Science Working Group, contributing to draft entry and exit-level standards for introductory geoscience courses. He 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, and the Society of Rheology.

Second Vice-Chair 2023. Elisabeth (Liz) Widom is Department Chair and 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 more than 9 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.

MGPV Student Representatives

In October, the MGPV Division invited applications from graduate student members who would be willing to serve as student representatives on the MGPV's Management Board. We received 15 applications. Three students were chosen: 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).

SAC was started so that GSA is relevant and responsive to its student membership. Students who are appointed to be representatives of a GSA Division, Section or Committee are the members of SAC. SAC activities include promoting GSA's opportunities by posting available research/outreach grants, programs, workshops and recognizing student representatives on their social media (FaceBook, Twitter, Instagram, etc.), and creating the [GeoScene](#) newsletter (which includes a roundup of the most recent opportunities for students and early career professionals).

Call for Award Nominations: Nomination Deadline: 31 March 2023

MGPV Division Distinguished Geological Career Award (for 2024)

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 2024)

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). This award emphasizes a geological and multidisciplinary approach. Geological work is by nature generalistic and has an important

field component, with Earth as the natural laboratory. J. B. Thompson's work, regardless of subject, was always based on solid field observations. In his acceptance speech for the Day Medal in 1964 he said, "True success in the laboratory should stimulate field investigations rather than discourage them. It would be embarrassing indeed if we were to construct an internally consistent geology, chemically and physically sound, perfect in fact but for one flaw: the lack of a planet to fit it."

The individual must either be [1] before the age of 36 or [2] within 7 years of the awarding of the terminal degree. If the former, the candidate must be 36 or less on January 1 of the year the award is decided. If the latter, the award must be decided prior to December 31 of the seventh year past the terminal degree. These time limits for the award can be extended for up to two years based on circumstances that have interrupted the nominee's career (i.e., serious illness, 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 consists of a recognition plaque, a \$1,000 cash award, and some travel assistance. The Award will be presented at the Division reception at the 2024 Annual Meeting of the Geological Society of America, (Pittsburgh, Pennsylvania, USA), with a brief (5 minute) citation from the nominator, followed by a brief (5 minute) acceptance speech by the awardee.

Nomination Procedure: Nominations will be from the Division membership at large, and include of: (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.

2020 MGPV Division Distinguished Geological Career Award to Cathy Busby: Citation and Acceptance

Citation by Keith Putirka, California State University, Fresno, CA
October 11, 2022

First, thank you to the GSA officers that allowed us to postpone this celebration of Cathy's career so that it could happen in person. I also thank Ray Ingersoll, Elizabeth Miller, Jason Saleeby and John Wakabayashi for writing letters in support of this nomination.

It is a very happy occasion to introduce Cathy Busby for the MGPV Distinguished Career Award. She is a great scientist and a good friend – and with one of my daughters now living in Sacramento, she is extended family. We are here to celebrate her scientific achievements – and I'll get to those. But I think it's also worth noting her many other talents and interests. She has a life-long fluency in Spanish and knows the culture very well. She is especially accomplished in Flamenco and knowledgeable of the music. She's an aesthete of wine, and an excellent cook. She is a devotee of Burning Man. And at her gorgeous home in Davis, she is head gardener and lead curator of a beautiful garden with an especially excellent display of roses. And finally, but not least, she is a loving and dedicated mother to her three daughters, Claire, Marian and Sophie.

As to her science... I would require Vin Scully's gift for words and the expertise in a half-dozen other subdisciplines to do fair justice; lacking these, I focus on petrology.

Five decades ago Peter Lipman and Bob Christiansen proposed that plate tectonic patterns could explain subduction-related magmatism and Basin-and-Range style volcanism in the North American Cordillera. Those papers influenced many people, including myself, to study petrology, and to wonder about the precise relationships between magmatism and tectonics. Cathy's work translates their temporal associations into causal forces. Essential reading would include Busby (2013) and Busby et al. (2008; 2019; 2022). Cathy is the first to clearly document how transtensional faults of the Walker Lane are the northward propagating tip of the Gulf of California, and how this migrating system will eventually calve off much of California from North America, illustrating to use her words "the birth of a plate boundary". Busby et al. (2016), further show that the birth of the Sierra microplate and the collapse of the Nevadaplano were simultaneous events. These larger tectonic issues are important but I'd like to bring emphasis to what happens within this tectonic system. Cathy shows how the related migrating stresses in the Walker Lane have controlled volcanism at Long Valley, the Little Walker, and Ebbetts Pass Calderas and the Lassen Volcanic Center. What is especially fascinating is her recognition that all these large silicic systems are habitually sited within transtensional basins, which form at the tip, or in the wake of the propagating Walker Lane system. Cathy's contributions to arc systems have a longer history than this. She has spent several decades conducting research on the Baja Peninsula, where she has discovered near-complete arc sections that provide a time-integrated view of how volcanic arcs form and evolve. Essential reading here would include Fackler-Adams and Busby (1998), Busby (2004) and Busby and Centeno-Garcia (2022). Her ability to establish causal connections between tectonics and volcanism start much earlier though. In Busby (1988) and Busby-Spera and Saleeby (1990) she shows the same causality in Mesozoic systems. In Busby-Spera and Saleeby (1990), Cathy and Jason show that right-lateral faults were highly active during the time that Cretaceous plutons were emplaced in the southern Sierra Nevada and in Busby (1988) she hypothesized that extension within arcs is a general feature and critical for explaining magmatic activity, noting also the value of studying ancient, well-exposed systems so as to shed light on modern volcanoes.

The siting of large silicic systems in transtensional basins, appears to solve or obviate two seemingly unsolved problems: the source of space, and the source of heat. The Busby-Spera and Saleeby (1990) paper was critical to the idea that transtensional systems could solve the so-called room problem for emplacing granitic plutons. In recent decades thermal modelers have struggled with a "heat problem" – the thermal energy needed to power a large volume silicic magma chamber – that could disappear if they shift their system from hydrostatic to transtensional. The subset of petrologists who remain apprised of advances in field studies will be the lone subset able to formulate and test useful hypotheses.

How has Cathy accomplished so much? It is in the genius of her approach: Cathy has a discerning taste in outcrops. She has often reminded me that to address the larger problems of tectono-magmatic relationships, we need outcrops that feature "datable stratigraphy", and thorough stratigraphic sections of unaltered rocks so she can piece together a comprehensive evolutionary picture.

I'll close by noting that, if it's allowable to admire your friends (as it implies a distance that does not apply), I've admired Cathy as a scientist, a dedicated parent, and a model for how to face the vicissitudes of life. Anyone looking for a role model could not find one better than in our MGPV Distinguished Career Award winner, Cathy Busby.

Acceptance by Cathy J. Busby, University of California, Davis, CA
October 11, 2022

First, I want to thank Keith Putirka for nominating me. He has been my close collaborator and a wonderful friend for 20 years. Then I want to go back through time and thank my mentors and collaborators and mentees. I was raised in a suburb of Ohio, where there are no rocks, but we had gravel driveways, and I spent many happy hours picking through them to find beautiful pieces of quartz and feldspar. The leader of my Girl Scouts troop taught us how to go camping, and I remember wondering what I could do to have a career outdoors, concluding that farming was the only way. It never occurred to me that a girl could be a scientist. Then my family moved to California, and my first boyfriend taught me how to backpack. I was turned on to geology by my LA Pierce Community College teachers Ruth LeBow and Barry Haskell, at the height of the plate tectonics revolution. Their field trips taught me a love of rocks and geologic time. When I transferred to Berkeley, Garniss Curtis, Clyde Warhaftig and Chuck Myer took a very active role in supporting me. I got started on a research project in the Sierra Nevada with the inspiring Jason Saleeby who was then at Berkeley (and also started out at Pierce). At Princeton I was given the freedom to pursue a PhD that was entirely my own design, under the brilliant supervision of John Suppe. I was extremely fortunate to win a faculty position at UC Santa Barbara straight out of graduate school, which made it possible for me to get tenure in the bag in time to give birth to three daughters within two years (numbers 2 and 3 were twins). I want to thank my mother (now in heaven) for coming to conferences and going in the field with me when they were young. She was fearless, being left in camp for the day in remote areas of Mexico with my babies; Claire, Sophia and Marion later grew up hiking cross-country on my fieldwork. At UCSB, Richard Fisher was my biggest advocate, in a large department that had only one other female faculty member. Women were sparse on the ground in those days, but I am thrilled to say that two of my three active NSF-funded projects have women as Co-PIs: Susan DeBari and Tina Niemi. Five years ago, I moved to UC Davis, seeking a department that is supportive of women. It's amazing what a difference it makes when nearly half the faculty are women – strong women! I feel very fortunate to have come of age at a time when field geology was valued and becoming open to women. I am a dirty-boots, rocks in the box geologist to the core. But I could not have covered all that “real estate” (as John Crowell used to put it) without the dedication of my students and postdoctoral researchers over the past 37 years, and I thank them as well.



**2022 MGPV Division Distinguished Geological Career Award
to Jane Selverstone: Citation and Acceptance**

Citation by Zachary Sharp, University of New Mexico, Albuquerque, NM
October 11, 2022

It is a pleasure to introduce Jane Selverstone for the MGPV Distinguished Geologic Career Award. Jane is a pioneer in the field of metamorphic petrology. Bringing together careful field work, detailed petrography, structural geology, and sophisticated use of thermodynamics, she defines how research should be conducted. Her published works are beautifully written with superb illustrations, presenting creative and cutting-edge ideas that expand the research possibilities in petrology. She was instrumental in developing the thermodynamics for extracting

quantitative P–T paths from chemical zoning in garnet with colleague Frank Spear. Her work in the Tauern Window was the first published P–T path based on these methods and was the seminal contribution in support of clockwise P–T evolution of orogenic metamorphic rocks. She has also worked on feedback effects between deformational and metamorphic processes, used fluid inclusions to test hypotheses regarding the mechanical behavior of the crust, studied fluid-rock interactions in high-pressure rocks (inadvertently leading to the discovery of diamonds in the Alps), and most recently, and as she would say ‘unexpectedly’, technically challenging isotope geochemistry.

When Jane started her research with Frank Spear, metamorphic petrologists were primarily concerned with determining the peak temperatures and pressures of a metamorphic event. She realized that there was a wealth of kinetic data preserved in metamorphic rocks and combined petrology, phase equilibria, fluid inclusion and structural information to determine how P and T evolved during a metamorphic event. She then combined the P-T path data with her knowledge of tectonics to constrain the orogenic conditions responsible for the metamorphism. Her work transformed the way metamorphic petrologists conduct their research.

A common theme in all of Jane’s research and her activities in general is consistent high quality. Whether playing violin in the Albuquerque Philharmonic, or winning awards for her black and white photography, or using chlorine isotopes to assess scales of fluid equilibration throughout a prograde metamorphic sequence, there can be no doubt that she does it superbly. Jane has served on over a dozen committees for MSA, GSA, and AGU. A subset includes numerous technical program chairs and awards committees for both MSA and GSA. These committees consume a large amount of time, and Jane’s involvement demonstrates her commitment to our profession.

Jane received several university-wide teaching awards and was a wonderful mentor to numerous undergraduates, graduates and postdocs. She has also tangentially helped the next generation of young women and minority professionals. When she started her career, the geological community was not particularly welcoming towards women scientists. Jane spent her career smashing glass ceilings and has left a community that is far more accepting towards women and minority scientists. For those of us who know and have worked with Jane, we have had the great fortune of calling an outstanding scientist and kind person a true friend.

Acceptance by Jane Selverstone, University of New Mexico, Albuquerque, NM
October 11, 2022

Thank you, Zach, for those very kind words. I am profoundly honored to receive the MGPV Distinguished Geologic Career Award, particularly in a room full of others equally deserving of this recognition.

In addition to Zach, I would like to express my deep thanks to Frank Spear, Jan Tullis, and the late Peter Molnar for co-sponsoring my nomination for this award. It is humbling and gratifying to have my career recognized by such an all-star cast, across such a range of disciplines. Special thanks also to Lincoln Hollister, my undergraduate mentor and most



loyal supporter ever since. Linc taught me to tease out the histories of metamorphic rocks from petrographic analysis. Frank, in turn, added thermodynamics to my arsenal during my incredibly stimulating years working with him at MIT. Peter taught me to keep an eye on the big picture, always. Jan took an interest in me at a time when there were few women in the geosciences; it was an honor to later spend a sabbatical with her, looking at how fluid composition affects rock strength. Zach dragged me kicking and screaming into the stable isotope lab to document scales of fluid-rock interactions using chlorine isotopes. Zach was also my main intellectual sparring partner for the last 20 years of my career.

I was first introduced to the geology of the Alps by Gerhard Franz and Giulio Morteani. I will always appreciate the fact that they urged me to come to the field before reading any Alpine literature, in order to see the rocks without any preconceived notions – not many people would have been this open minded. Their friendship has been unwavering over the last four decades.

Gary Axen deserves special mention for our long and productive collaboration, combining structural and petrologic data from some of the ugliest metamorphic rocks on the planet to test hypotheses about the mechanical behavior of the crust.

Special thanks to all the students with whom I interacted over the years. It is hard to express in words the satisfaction and joy that came from working with you. I know that I let some of you flounder beyond your comfort levels, but I strongly believe that the best science comes from moments of discomfort. In particular, I would like to call out Kurt Steffen, Jaime Barnes, the late Tim Wawrzyniec, Aaron Cavosie, and Alexis Ault. You challenged me relentlessly and kept me on my scientific toes.

Careers don't come out of nowhere. Families matter. My parents encouraged me to read widely and deeply, allowed me to drop out of high school, and let me run wild among the rocks along the coast of Maine. All these things shaped me as a scientist. My children, Ben and Sonia, think rocks are boring, but they have always been proud to have a professor for a mom, and they never complained when I went off to do fieldwork. And my husband, David Gutzler, should win an award for his flexibility, patience, and good humor over the years. I owe him so many brownie points that I will never get out of debt.

I would also like to acknowledge the role of serendipity in successful careers. I have been fortunate to be in the right place at the right time for opportunities to find me. Flexible thinking let me seize those opportunities, rather than just marching ahead on whatever path I was on beforehand. Having an open mind and a willingness to venture in new directions are useful traits.

I will end with a quote from a poem by e.e. cummings that has guided me throughout my career: "I would rather learn from one bird how to sing than teach ten thousand stars how not to dance". I have had the great good fortune to learn from many birds – human and geological – how to tell the stories encapsulated in metamorphic rocks. It's been a fun ride. Thank you all.

2022 MGPV Division Early Geological Career Award to Hannah R. Dietterich: Citation and Acceptance

Citation by Thomas Sisson, U.S. Geological Survey, Menlo Park, CA
October 11, 2022

Hannah Rose Dietterich is receiving the MGPV early career award for her substantial contributions to diverse aspects of volcanology, encompassing fieldwork, remote sensing, modelling of volcanic processes, developing tools, and assessing hazards. Hannah leads the field in understanding lava emplacement quantitatively, and her studies are of direct, considerable, and immediate practical benefit in assessing, mitigating, and communicating hazards of active volcanism. She is an enormously capable and adaptable interdisciplinary scientist with instincts for well-crafted research and its applications to the challenges faced by emergency managers, decision-makers, and those at risk.

Her publications on lava-flow emplacement processes, her groundbreaking uses of remote sensing techniques to track volcanic activity, and her probabilistic assessments of the threats of volcanic activity testify to the strength, depth, and range of her expertise and of her judgement in selecting and executing research projects.

Hannah is a science critical responder during eruptions, innovating deftly and interpreting with deep insight at Kilauea in 2018, in multiple eruptions in Alaska, and elsewhere. Her approach to evaluating probabilities of lava emplacement, developed in a USGS–Saudi Geological Survey project, is now the template for lava emplacement assessments by the USGS.

Her enthusiasm, passion for communicating her work, and her support for other early-career scientists have made Hannah a sought-after collaborator and fabulous ambassador for the profession of volcanology.

Acceptance By Hannah R. Dietterich, U.S. Geological Survey, Anchorage AK
October 11, 2022

Thank you, Tom, for your kind citation, and to the MGPV Early Career Award committee and the Geological Society of America for this honor. Thanks as well to those who co-sponsored my nomination: Tina Neal, Kathy Cashman, and Andy Harris. This award is a recognition of the contributions of all of my mentors, leaders, collaborators, and colleagues who have inspired and supported my journey as an early career scientist. As someone who has worked to build community and opportunities for early career researchers in our field through the IAVCEI Early Career Researchers Network, it is especially meaningful to receive this early career award.

My lifelong interest in science began early, with two science professors as parents, and I am thankful for their encouragement of my curiosity in the natural world and my love of the outdoors. I grew up enjoying science classes in school, and the opportunity to work in a wood science lab at Oregon State



University as a high school student helping graduate students with their research projects set me on a path into the natural sciences.

I have to thank my introductory geohazards class my first term at Pomona College for bringing me into geology and teaching me about volcanoes and that a “volcano observatory” is a place you can work. My interest in volcanology and spending summers at home in Oregon led me to Shan de Silva, who I need to thank for taking me on as an inexperienced summer research student and guiding me through my first presentation at a scientific conference and writing my first geology journal article as an undergraduate student. I am also grateful to Jade Star Lackey and all of the faculty and students at Pomona College for their mentorship and support in my geology education, independent research, and path to graduate school.

So much of the scientist I am today is thanks to Kathy Cashman, my PhD advisor. Kathy got me interested in lava flows, taught me how to ask scientific questions and write scientific papers, and continues to be an amazing mentor, collaborator, and role model. I had the pleasure and the challenge of splitting my graduate school time between University of Oregon and University of Bristol, and I am thankful for the faculty, students, and support staff in both places who made these departments such wonderful and inspiring places to work. Thank you especially to my graduate student cohorts at both universities for providing such a supportive community as we all started our geology careers together.

I entered the USGS Volcano Science Center as a postdoctoral researcher and have since had the pleasure of working closely with colleagues across all of the USGS volcano observatories on fundamental scientific research, applications to hazard assessment, and eruption crisis response. Thank you to Tom Sisson, Tom Murray, Tina Neal, and Michelle Coombs for your trust and for cultivating my independence and confidence as a research scientist. And thank you to the whole team at the Alaska Volcano Observatory and the broader USGS who have shown me how to use my science for assessing and communicating volcanic hazards to communities in harm’s way.

And finally, thank you to all of my collaborators and friends in our community who motivate and support me every day. Thanks especially to the students and postdoctoral researchers that I now have the pleasure of mentoring. The new questions, datasets, opportunities, and even the volcanic activity curveballs, that come up every day keep me very excited for the future.

2023 MGPV Awardees

MGPV is sponsoring a session at 2023 GSA Annual Meeting, Pittsburgh, PA, for our 2023 Distinguished and Early Geological Career Awardees to include citations, acceptances and awardee lectures. Our awardees:

2023 MGPV Division Distinguished Geological Career Award to Katharine Venable Cashman

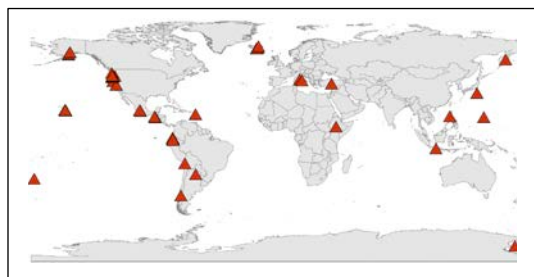
The MGPV Division is pleased to announce that **Katharine Venable Cashman**, University Oregon is its 2023 MGPV Distinguished Geologic Career Awardee.

Katharine Cashman is an American volcanologist, former professor of volcanology at the University of Bristol and Philip H. Knight Professor of Natural Science at the University of Oregon.



Dr. Cashman was educated at Middlebury College, Vermont where she was awarded a Bachelor of Arts degree in Geology and Biology in 1976. She continued her studies at Victoria University of Wellington in New Zealand and then completed her PhD at Johns Hopkins University, Maryland, in 1986. Her PhD research applied theories of crystal size distributions to volcanic systems.

Dr. Cashman has made numerous notable advances in the fields of petrology and volcanology, using innovative, multidisciplinary approaches to tackle a wide variety of geologic problems. Importantly, her investigations are founded upon primary field observations and fundamental field research. Kathy's research has spanned an extraordinary variety of volcano types, tectonic settings, and world-wide locations (see map). Her work extends from the storage and ascent of magmas to the dispersal of volcanic ash in the atmosphere and the architecture of crustal magmatic systems. Her field observations, mapping, and stratigraphic and temporal sampling of volcanic products underpin her scientific method. These field results form the basis for subsequent investigations that range from petrologic analyses of volcanic products to quantification of macro- and microtextures of rocks to analog and high-temperature experimentation. She has incorporated concepts and theory from the fields of material science, fluid dynamics, atmospheric science, materials science, hydrology, and geomorphology to bring interdisciplinary expertise to solve petrologic and volcanic problems. Furthermore, she has



highlighted the incredible value of traditional Indigenous knowledge and oral traditions for unravelling eruption histories, reinforcing hazard communication, and strengthening community resilience. As a mentor, she has passed on her passion and expertise for multidisciplinary research to over 50 graduate students at University of Oregon and University of Bristol, many of whom have gone on to successful careers in volcanology, academia and

beyond.

2023 MGPV Division Early Career Award to Carolina Munoz-Saez

The MGPV Division is pleased to announce **Carolina Munoz-Saez**, University of Nevada, Reno NV is its 202 MGPV Early Career Awardee.



Carolina Munoz-Saez, received her B.S. (2005) and M.S. (2007), Geology, University of Chile, Santiago, Chile, and her PhD at the University of California, Berkeley in 2016. She completed postdoctoral fellowships at the University of Chile, and then at Lamont-Doherty Earth Observatory and at the City College of New York. She currently is an Assistant Professor at the Nevada Bureau of Mines and Geology, Mackay School of Earth Sciences and Engineering, University of Nevada, Reno.

Carolina's publications present a nice mix of field and laboratory measurements and quantitative analysis for understanding systems (magma-hydrothermal systems) rather than on method application, she has established cross disciplinary, international collaborations with hydrologists, geophysicists, geochemists, sedimentologists, microbiologists, and planetary scientists from many research institutes to obtain a broader and more wholistic understanding of these complex systems. Carolina's papers present results and interpretations from geologic mapping, radiocarbon dating, analog laboratory experiments, laboratory measurements of siliceous sinter mineralogical, chemical and mechanical properties, analyzing the role of thermophile bacteria in the diagenesis of sinter deposits, numerical modeling of groundwater flow and heat transport, time-series analysis, application of geophysical methods, aqueous geochemistry, and thermodynamic modeling of temperature-dependent water-rock reactions. Combined, this multidisciplinary approach has provided an improved understanding of a range of process taking place in magma-hydrothermal systems such as geyser dynamics, multiphase heat and mass transport, sinter diagenesis, and the structure, geometry, and evolution of thermal basins.

Carolina is now branching into a completely new and exciting research project that was recently (January 2022) approved for funding by the National Science Foundation. The large-scale interdisciplinary study that she will be leading with experts from across several Earth science disciplines from US and Chilean institutions includes glaciologists, experts in exposure dating using cosmogenic isotopes and volcanologists. The study's goals are to quantify hydrothermal responses in the El Tatio volcanic-hydrothermal field to glacial unloading in the Chilean Andes. El Tatio is an ideal natural laboratory to investigate these interactions because based on Carolina's research (Muñoz-Saez et al., GRL 2020) it preserves exceptional morpho-stratigraphic evidence of volcanic, glacial, and hydrothermal activity since the last deglaciation. The new study has significant potential to provide important information because it has implications for hazard assessments (phreatic eruptions and hydrothermal explosions), for regional climate reconstructions, and for the exploration of mineral deposits and geothermal energy resources. In addition to her prolific research, Carolina has been engaged in outreach with the historically marginalized native communities who own and operate the land at the El Tatio geyser field. She spent a significant amount of time and energy explaining the research that she and her colleagues have carried out, its relation to their operations, and how they can become more involved in the science and the preservation of the unique geyser field.

MGPV at GSA Meetings

GSA Annual Meeting (Connects 2022), 9-12 October, Denver, CO

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

Technical Sessions. MGPV hosted its GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division Awards Session on 11 October 2022 for both 2020 and 2022 awardees. In addition, there several technical sessions in honor of the awardees:

- Lava Flows and Their Hazards: A Session Inspired by Hannah Dieterich's Early Career Award from the Mineralogy, Geochemistry, Petrology, and Volcanology Division.
- The Virtue of Fieldwork in Volcanology, Sedimentology, Structural Geology, and Tectonics: Sessions to Honor Cathy Busby, 2020 MGPV Distinguished Geological Career Award Recipient.

Exhibit. MGPV had a booth, shared with the Mineralogical Society of America, in the Exhibit Hall of the GSA Connects 2022 Meeting 9-12 October at the Colorado Convention Center in Denver Colorado, USA.



GSA Section Meetings (2022)

MGPV had booths, shared with the Mineralogical Society of America, in the Exhibit Hall of both the 2022 Northeastern Section Meeting 20-22 March 2022, Lancaster, Pennsylvania, USA and the 2022 Joint North-Central & Southeastern Section Meeting 7-8 April 2022, Cincinnati, Ohio, USA. The Northeast Section Meeting had 921 attendees, of which 245 were students. The Joint North-Central & Southeastern Section Meeting had 831 attendees, 243 of whom were students, and 24 exhibitors.

Divisions have the primary responsibility for developing the technical session program for GSA Annual Meetings. They are now being asked to take a similar active role for the Section meetings, where their involvement has generally been low. Consider developing and submitting theme session topics for 2024 and future Section meetings.

GSA Annual Meeting (Connects 2023), 15-18 October 2023, Pittsburgh, PA

• **Technical Sessions.** MGPV and its Adhering Associated Societies are endorsing a number of proposed sessions. MGPV will be sponsoring a session of citations, acceptances and awardee lectures for the 2023 Distinguished and Early Geological Career Awardees. MGPV-related topics ought to have a strong presence at the GSA Annual Meeting.



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 (2023)

MGPV will have a booth in the Exhibit Hall of the 2023 Joint Northeastern & Southeastern Section Meetings, 17-19 March 2023, Reston, Virginia, 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.

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

MGPV Division Organizational Items

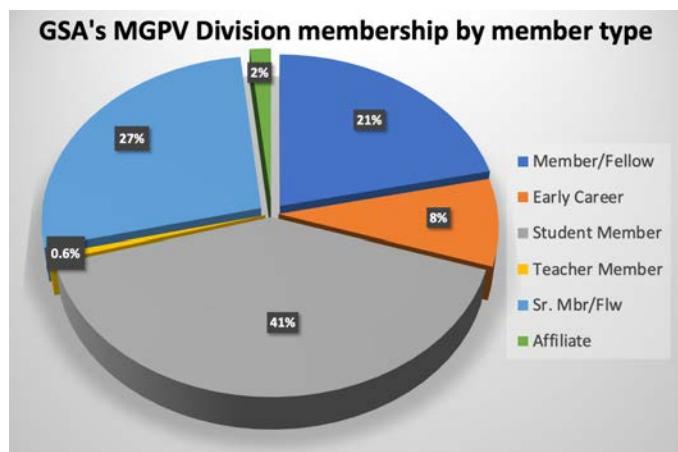
• **Membership.** The Division grew rapidly after it was established in October of 2009:

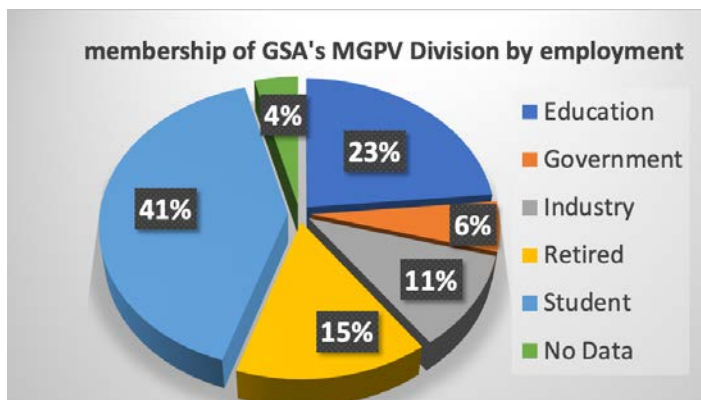
547	2009 Division affiliates as of 31 December 2009
972	2010 Division affiliates as of 30 December 2010
1,437	2011 Division affiliates as of 30 December 2011
1,434	2012 Division affiliates as of 30 December 2012
1,385	2013 Division affiliates as of 30 December 2013
2,261	2014 Division affiliates as of 30 December 2014
2,249	2015 Division affiliates as of 30 December 2015
2,238	2016 Division affiliates as of 30 December 2016
1,976	2017 Division affiliates as of 30 December 2017
2,035	2018 Division affiliates as of 30 December 2018
1,849	2019 Division affiliates as of 31 December 2019
1,796	2020 Division affiliates as of 31 December 2020
1,716	2021 Division affiliates as of 31 August 2021
1,712	2022 Division affiliates as of 31 August 2022



In 2014, GSA instituted a policy wherein students can join their first Division at no cost. This new policy 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 the changes in total GSA membership numbers.

GSA provided a variety of MGPV member demographics this past year. As of the beginning of June 2022, 92.5% of MGPV members reside in North America. As can be seen in the accompanying pie diagrams, there is much more diversity in member types and employment. 28% 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 9-12%. Most MGPV members belong to the Cordilleran Section. There is a wide range of MGPV members' professional interests.





Section **	Total
CORD	631
NC	260
NE	339
RM	392
SC	169
SE	240
None	111
Total	2142

Finances

The GSA-MGPV fiscal year is July 1 through June 30. As of 06/30/2022, MGPV has a (unrestricted) cash balance of \$19,603.69.

Income. Dues income was \$7,128.13. This is slightly less than the previous 12-month periods for dues of \$7,129.16 (2020-2021), \$7,336.30 (2019-2020), \$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 student research grants, student travel grants, and the awards and travel expenses for the 2022 Distinguished Geological Career and Early Career Awardees. In addition, for the student research grants, the Lipman Research Fund provided \$57,500, the Hollister Graduate Student Research Awards Fund provided \$7,500, the Ian S.E. Carmichael Research Award provided \$1,430, and the GSA Foundation provided \$1,070 to make up the short fall in the Carmichael Research Award.

Expenses. Division expenses during this period were \$327.00 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. \$72,500 was dispersed for student research and travel grants from the Lipman, Hollister, Carmichael, and Thompson Funds. There were no reception expenses for the GSA 2022 Connects meetings which 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).

Professional Interest *	Total
Archaeological Geology	32
Biogeosciences	23
Climatology/Meteorology	13
Economic Geology	244
Energy Geology	53
Engineering Geology	35
Environmental Science	104
Geography	3
Geoinformatics	18
Geology and Health	20
Geophysics/Tectonophysics	45
Geoscience Education	118
Geothermal	32
History/Philosophy of Geology	18
Hydrogeology/Hydrology	54
Karst	8
Limnogeology	6
Marine and Coastal Geosciences	36
Mineral/Geochem/Petrology/Volcanology	1348
Other	25
Paleo Sciences	35
Planetary/Space Science	141
Policy/Regulatory	4
Quaternary Geology/Geomorphology	36
Seismology	2
Soil Science	5
Stratigraphy/Sedimentology	56
Structural Geology/Tectonics	286
Total	2800

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.

The **Lincoln S. and Sarah W. Hollister Graduate Student Research Awards Fund** is new to MGPV for 2022. The purpose of the Fund is to support research grants to graduate students working on field-based theses and dissertations that use the tools of metamorphic petrology for understanding the formation of continental crust. Tools include, but are not limited to, phase equilibria based on data obtained with the electron microprobe or SEM/EDS, radiometric analysis, ductile deformation including data from EBSD, fluid inclusions, trace element analysis, and crustal seismology. As relevant, the awards will seek to enhance the recipient's ability to reach remote regions and to conduct research in the safest manner possible.

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, provide 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. Additionally, nomination of a candidate to become a Division officer also may be made to the Division Secretary-Treasurer by any four voting affiliates of the division in good standing who also verify that the candidate is qualified and willing to serve in that office. This candidate's name will be forwarded to the chair of the Nominations Committee in time for inclusion in their report to the Management Board.

From the pool of candidates, the Officer Nominations Committee will select a single candidate for each open office by majority vote. In a written report, the Committee will inform the Management Board of the vote, include the list of individuals considered, and the curriculum vitae. When approved by the Management Board, the nomination(s) shall become the election slate. The membership will be asked for a vote of confidence for the candidates of all open offices. In the event that the vote of confidence fails, the second candidate on the list will stand for a vote of approval or non-approval.

The ***Program Committee (= JTPC Representatives)*** is a standing committee. It plans and arranges for the technical sessions and symposia of the division at the Annual and Sectional Meetings of the Geological Society of America, and other external meetings as may be directed by the management board.

We thank the following individuals who volunteered for MGPV committees and posts this past year:

- **Distinguished Geologic Career Award Committee (2023 award):** Amanda Clarke, 2022 Chair, Arizona State University, Dawnika Blatter (2022-2024), US Geological Survey, Andrew Calvert (2020-2022), US Geological Survey-Menlo Park, Cailey Condit (2021-2023), University of Washington, Gregory Drummond (2021-2023), University of Arkansas, Peter LaFemina (2022-2024), Pennsylvania State University, Mary Leech (2020-2022), San Francisco State University
- **Early Career Award Committee (2023 award):** Alan Whittington, 2022 Chair, University of Texas-San Antonio, Tracy K. P. Gregg (2020-2022), University at Buffalo, Dina Lopez (2020-2022), Ohio University, David Peate (2020-2022), University of Iowa, Mary Reid (2020-2022), Northern Arizona University, Karen Bemis (2021-2023), Rutgers State University, Loyc Vanderkluyzen (2021-2023), Drexel University
- **Officer Nominations Committee (2022 election):** Rosemary Capo (2022), (Committee Chair, 2021 past MGPV chair), Amanda B. Clarke (2022), Arizona State University, Alan Whittington (2022), University of Texas-San Antonio, J. Alexander Speer (2022), Mineralogical Society of America
- **Student Research Grants (for 2022 grants):** Past Chair: Rosemary C. Capo, University of Pittsburgh, Chair: Dennis L. Newell, Utah State University, 1st Vice-Chair: Amanda B. Clarke, Arizona State University, 2nd Vice-Chair: Alan Whittington, University of Texas-San Antonio
- **Student Travel Grants (for 2022 grants):** Chair: J. Alexander Speer (2022), 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
- **Program Committee (= JTPC Representatives):** Amanda B. Clarke, Arizona State University, Alan Whittington, University of Texas-San Antonio, J. Alexander Speer, Mineralogical Society of America
- **Council Liaison:** J. Wright Horton Jr., U.S. Geological Survey

MGPV Election 2023

The 2023 election will be held during August. The positions of both 2nd Vice-Chair and Secretary-Treasurer 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.

Giving to MGPV

Did you know that you could donate to the MGPV Division, both when you renew and at any other time at [GSA Foundation's online giving page](#). 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 permanent Funds that provide a source of income for critical programs and services offered by GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division. Income from these funds provide for a range of student research and travel grants and recognition awards. Some are gifts or are bequests, but many members contribute to the MGPV Division each year by including a contribution with their dues.

Announcements

from MGPV:

[1] Consider nominating deserving candidates for MGPV Division's Distinguished Geologic Career and Early Career Awards. Procedures and deadline (**31 March 2023**) for nominations are given on the [MGPV Division's Connected Community site](#).

[2] MGPV will have booths in the Exhibit Halls of the 2022 Joint Northeastern & Southeastern Section Meeting 17-19 March 2022, Reston, Virginia, USA.

from the Adhering Associated Societies:

•The Joint Annual Meeting of the Geological Association of Canada, Mineralogical Association of Canada, and Society for Geology Applied to Mineral Deposits will be held in Sudbury, Ontario, Canada, 24-27 May 2023 with pre- and post-meeting field trips, workshops, and short courses. Please check the 2023 GAC-MAC-SGA Joint Annual Meeting [website](#) for abstract submission, registration, dates, and other information.



•The 60th Annual Meeting will take place in Austin, Texas from May 20-25, 2023. There will be over 30 sessions with four keynote/award presentations.

This meeting will take place at the UT-Austin, J.J. Pickle Research Campus, University Commons Center. There is also a short course that will cover the use of Sybilla software package on the simulation of 1D and 3D X-ray diffraction patterns from clay minerals. Course instructors include original architects of the source code. Researchers from UT-Austin Jackson School of Geosciences, the Bureau of Economic Geology, and U.S. Geological Survey are organizing and hosting this event. Field trips will focus on the clay mineralogy and geology of cave complexes in the Edwards Limestone near Austin, TX. [Details](#).

• Nominations for the CMS 2023 Awards and applications for the CMS Student Research and Travel grants are due 1 March 2023. [Details](#).

• [Goldschmidt 2023](#). The next Goldschmidt Conference®, organized by the European Association of Geochemistry and the Geochemical Society, will take place in Lyon, France and online from 9-14 July 2022. This year's Goldschmidt Conference will be fully hybrid, giving delegates the choice of participating in person in France or remotely. [Registration](#) and details are now available. The [abstract submission](#) deadline is 1 March. Students and early career researchers should take note of [grant opportunities](#) (application deadline is 15 February).



- **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 2023.



- The Mineralogical Society of America (MSA) invites applications for the [2023 MSA Grant for Research in Crystallography](#) and for the [2023 MSA Student Research In Mineralogy and Petrology](#). There are up to three research grant awards of \$5,000 each. Application deadline is 1 March 2023. 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](#).



There are two upcoming MSUKI meetings: [CMG-RiP-2023](#) Clays and construction: 2023 Clay Minerals Group Research-in-Progress meeting, 18 May 2023 and the [Metamorphic Studies Group Research in Progress 2023](#), University of Oxford, 4–5 April 2023

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 2022 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).

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

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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

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