Message from the Chair

Dear GSA MGPV members,

I am excited to serve as this year’s Chair of the MGPV Division, and I thank Dr. Rosemary Capo for her excellent leadership over past year. These last two years have been especially challenging for everyone both personally and professionally, and the MGPV Division will continue to adapt to pursue our goals and serve our membership. These goals include retaining and expanding our membership, improving the diversity of our membership, encouraging session proposals for upcoming GSA meetings, and awarding our colleagues and student researchers. In 2021, the Division granted 27 student research awards, and we look forward to selecting this year’s cohort. We also plan to continue outreach efforts to former student grant awardees to better understand their transition from student to early-career professional. We are fortunate to have the ongoing help from our student representatives Chioma Onwumelu and Lindsey Hernandez on these efforts. They will continue to build on the past year’s initiatives to increase engagement with our student members, with a goal of developing a webinar series on topics such as effective science communication and career preparation. We will also be highlighting member activities in the MGPV Newsletter, our website and on Twitter. We also welcome suggestions from you.

We are looking forward to participating in the 2022 GSA Connects meeting scheduled for October 9-12 in Denver, Colorado, with expectations that this will be an in-person meeting. Thanks to Vice Chairs Amanda Clarke and Alan Whittington for taking on the critical role as our Division’s representatives on the Joint Technical Program Committee (JTPC) for the annual meeting. Similar to last year, the MGPV Division will convene a session for honoring our student and career awardees. In addition to the 2022 career awardees, we will also honor our 2020 awardees who
could not attend in 2020 or 2021. Our Distinguished Geological Career awardee for 2022 is Jane Selverstone and our Early Career awardee is Hannah Dietterich. The formal announcements for both are in this newsletter.

I will close with our annual reminder: MGPV needs your active support to continue to represent our community at GSA. Our membership continues to be robust, with strong Student and Early Career membership (783 students and 157 Early Career, out of 1716 total members as of December 2021). We encourage you to take the time to nominate your peers for the Distinguished Geologic Career and Early Career Awards; instructions follow in this newsletter. Most importantly, please remember to renew your membership in GSA and MGPV each year and we hope that you will encourage others to join as well.

Dennis Newell  
Chair, GSA Mineralogy, Geochemistry, Petrology and Volcanology Division  
Department of Geosciences  
Utah State University, Logan, UT

New MGPV Officers 2022

Chair 2022. Dennis Newell is an Associate Professor in the Department of Geosciences at Utah State University and directs the Utah State University Stable Isotope Laboratory. He received a B.S. in Geology from New Mexico Tech, a M.S. in Geology from Colorado State University, and a Ph.D. in Earth and Planetary Sciences from the University of New Mexico. He conducted postdoctoral work at Los Alamos National Laboratory (LANL), and prior to coming to USU was a research geochemist at LANL. Dennis specializes in aqueous and stable isotope geochemistry, with applications to problems in continental tectonics, geofluids, fault-fluid interaction, geothermal energy exploration, and geological carbon sequestration.

First Vice-Chair 2022. 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.

Second Vice-Chair 2021. 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.

Alan is honored to be considered for the position of 2nd Vice Chair of the MGPV Division of GSA. He will enthusiastically work and advocate for progress on issues including: (i) transforming the profession of geoscience to become truly inclusive; (ii) supporting students and advocating for early career scientists; (iii) promoting interdisciplinary science, including between different sections of GSA, between GSA and other societies, and MGPV contributions to transdisciplinary 21st century problems from climate change to human planetary exploration; and (iv) outreach and geoscience education for a more informed, scientifically literate society.
Call for Award Nominations: Nomination Deadline: 31 March 2022

**MGPV Division Distinguished Geological Career Award (for 2023)**

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.

**The Award:** Consists of Fellowship in GSA, recognition plaque, a $1,000 cash award, and some travel assistance. The Award will be presented at the 2023 Annual Meeting of the Geological Society of America (Denver, CO, USA), with a brief (5 minute) citation from the nominator, followed by a brief (5 minute) acceptance speech by the awardee.

**MGPV Division Early Geological Career Award (for 2023)**

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.

**The Award:** Consists of a wall plaque, a $1,000 cash award, and some travel assistance. The Award will be presented at the Division reception at the 2023 Annual Meeting of the Geological Society of America, (Denver, CO, USA) with a brief (5 minute) citation from the nominator, followed by a brief (5 minute) acceptance speech by the awardee.

**Nomination Procedure for either award**

Nominations will be from the Division membership at large, and should consist of:

(1) A nomination letter from an MGPV Division member, no longer than 3 pages, summarizing the nominee’s most important accomplishments in geological approaches to mineralogy, geochemistry, petrology, and/or volcanology. Special attention should be paid to describing how the nominee’s published work demonstrates field-based multidisciplinary geological accomplishments of a...
groundbreaking nature. The letter should include the name, address, and contact information of the nominator as well as those from whom letters of support can be expected.

(2) Curriculum Vitae of the nominee.

(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.

Nominations should be forwarded to the Division Secretary-Treasurer, J. Alex Speer at: jaspeer at minsocam.org

Dossiers of nominees who did not receive the award in any given year will be retained and considered for two succeeding years (as long as the eight-year time limit continues to be met); thus, nominations are active for a total of three years even if not updated or re-submitted. Updated information or resubmitted nominations for such candidates may be sent to the Division Secretary-Treasurer during subsequent calls for award nominations for consideration beyond that time.

2021 MGPV Division Distinguished Geological Career Award to Michael Brown: Citation and Acceptance

Citation by Chris Yakymchuk, University of Waterloo
October 11, 2021

One cannot work in the field of metamorphic geology and not come across Mike Brown. Mike is internationally renowned for his comprehensive studies of migmatites and high-temperature metamorphic rocks from around the world and has shifted the paradigm of our understanding of secular change on Earth with his novel studies into paired metamorphic signatures of global tectonic systems. His numerous research contributions—that include field-based studies from each continent—are multidisciplinary, and routinely involve petrology, mineralogy, geochemistry, geochronology, and structural geology. Mike is a genuine multidisciplinary scientist.

A primary theme of Mike’s research is the petrogenesis of migmatites and the granite–migmatite connection. The early work of experimental petrologists was highlighted by and enhanced by Mike using field-based observations (starting in Brittany and evolving to migmatites from all over the world) and petrology, which has led to a general scientific consensus that granites are primarily derived from high-temperature metamorphism and partial melting of rocks in the deep crust. It is not an exaggeration to state that establishing the migmatite–granite connection—that we may for granted today—was a principal contribution of Mike Brown to our understanding of the chemical differentiation of Earth’s continents.

Mike’s second principal contribution bridged global tectonic processes with the metamorphic rock record through the hypothesis that paired metamorphism in orogenic belts is the hallmark of modern-style plate tectonics. Mike’s landmark papers on this subject are widely read, cited and have changed the focus in the early-Earth tectonics debate towards metamorphic petrology. Mike has kept metamorphic geology in the spotlight!

In addition to pushing the frontiers of knowledge with technical contributions to high-grade metamorphism and the petrological record of secular change, Mike is a regular contributor to highly-cited review articles that makes the detailed advances in our discipline accessible to researchers in other fields. Mike’s drive for high-quality science and his enjoyment of scientific discourse have strongly influenced the way many of us collect data and interpret results – we are all better scientists thanks to Mike Brown.

Mike has been a pillar of the metamorphic geology community for over 40 years. In addition to his scholarly contributions, Mike has convened scores of conference sessions, organized numerous short courses and field trips, and he was the founding editor in 1982 for the Journal of Metamorphic Geology. Mike only
recently stepped down from his editorial duties at the *JMG* after 36 years. The incredibly active Metamorphic Studies Group was founded by Mike in 1981 and it is still going strong.

In summary, Mike’s career has changed the course of metamorphic geology for the better. His field-based multifaceted studies of migmatites and secular change are game changers for Earth scientists. His service to our research community has substantially elevated the stature of metamorphic geology and his efforts have led to a well-organized and supportive community of new and old scientists to meet the metamorphic challenges of our future. Mike is a most deserving recipient of the Distinguished Geologic Career Award from the MGPV division of the GSA. Congratulations, Mike!

**Acceptance** by Michael Brown, University of Maryland

October 11, 2021

To begin, I thank the MGPV division of GSA for this Distinguished Geological Career Award. I am fully aware that there are many worthwhile candidates for the limited number of awards in the geosciences, and I am humbled to receive this honor from my peer division in one of the oldest geological societies. In accepting the award, I acknowledge my nominator Chris Yakymchuk, the support group of Julie Baldwin, Tim Johnson and Dick White, and Donna Whitney for nudging Chris in the first place. My thanks go to Chris, Julie and Mark Caddick for organizing a full-day session in my honor, and to the participants, especially the invited speakers. Also, I appreciate Chris' generous citation; although I continue to interact with students at CUG Wuhan, China, Chris was my last graduate student at Maryland. Finally, I thank my family who have supported me throughout my career, especially my wife Jenny—without her support the travel and fieldwork would have been impossible.

I began my career in the UK in 1972 as a Lecturer at Oxford Brookes University, where I rose to Acting Head of Department, before moving in 1984 to Kingston University as Head of School. Then, in 1990, I moved laterally to become Chair of the Department of Geology in the University of Maryland, and, in doing so, successfully avoided becoming a Dean. In the end, I was a head or chair for 29 consecutive years. The job comprises interesting, less interesting and darn right tedious tasks, so the secret to success is to complete each efficiently and professionally; but the downside of success is reappointment after reappointment! Deans often remark that the job of chair is the worst of all in a university, because the chair gets s--- from both the bottom up and top down. However, unlike a dean, it is possible as chair to continue a program of research, even if the time for it is more limited. My solution was simply to have a smaller research group, so that my time with individual students, post-docs and long-term visitors was not compromised.

Metrics such as citations and h-indices are useful, but they cannot give the full measure of a person—that requires an evaluation of the content and significance of their publications, and of their other contributions. However, research articles have (mostly) fleeting value, not because they were not necessarily good in their time, but because science advances, leaving (most of) them behind by career's end. By contrast, human capital and, maybe, institutions that have benefitted from leadership should have lasting value. I am proud that my students and post-docs have successful careers, and the Department of Geology at Maryland has a firm foundation for continued success. These are my legacy!

To finish, this award is meaningful to those of us fortunate enough to receive it because it places an emphasis on multidisciplinary, field-based contributions—these have been the hallmark of my research. I have done fieldwork on every continent and worked in countless different countries with many diverse colleagues and students. I thank them all for helping to make my career so enjoyable.
2021 MGPV Division Early Geological Career Award to Xiaoming Liu: Citation and Acceptance

Citation by Roberta Rudnick University of California-Santa Barbara
October 11, 2021

I’m delighted to be here today to introduce to you this year’s winner of the MGPV early career award: Xiaoming Liu. The award was endowed by the late Jim Thompson, who valued multidisciplinary investigations grounded in solid fieldwork. Xiaoming is a particularly appropriate person to receive this award, as this nicely describes her approach to research.

Xiaoming did her Master’s and PhD at the University of Maryland, where I had the privilege of co-supervising her for both degrees. The UMD mascot is a turtle – a Terrapin, to be precise, and the associated logos are “Fear the Turtle” and “Fearless Ideas”. This fits Xiaoming perfectly, as she is fearless in pursuing her research, as I will shortly describe.

For her Master’s degree, which was co-supervised by Sash Hier-Majumder, Xiaoming studied the behavior of Li and its isotopes in country rocks adjacent to narrow (<3 m) Li-rich pegmatites. This involved field work (with Mona Sirbescu), Li analyses, 1-D diffusion and 2-D diffusion-advection modeling. She dove into this project without any background in Li isotopes or numerical modeling and produced a nice paper in *G-cubed* demonstrating that Li infiltrated more than 50 m into the country rocks from the pegmatites via diffusion, assisted by fluid advection.

In her PhD, co-advised with Bill McDonough, Xiaoming changed course and focused on quantifying the impact of chemical weathering on the composition of the continental crust. Again, she used geochemistry (major, trace elements, Li, Mg and Nd isotopes), field work and fluid transport modeling, but in this case, she was concerned with understanding the influence of basalt weathering on stream waters that drained only basalt and whether weathering of an initial basaltic crust could generate the evolved continental crust we see today. The Columbia River Basalts (right out our door here) proved a wonderful natural laboratory for this work, given their within-flow homogeneity and huge lateral extent. Studying drill cores through bauxites developed on the CRB on the west side of the Cascades (provided by Michael Cummings at Portland State University), she documented the chemical effects of extreme weathering and its influence on Li and Mg isotopes in the regolith. The latter was carried out in the lab of Fang-zhen Teng at University of Washington, thereby starting a long-term collaboration. Analyzing the streams, rivers and groundwaters that drained only CRB, she was the first to document seasonal variation in riverine Li isotopes and showed, through reactive transport modeling that Li isotopes continue to fractionate between river waters and suspended mineral loads as the material is carried downstream. This has important implications for understanding the changing $^{7}$Li of seawater over the Cenozoic, which has been used as a proxy for chemical weathering. Here was another example of Xiaoming’s fearlessness – she reached out to Christoph Wanner, a post-doc at Lawrence Berkeley National Lab to learn how to apply reactive transport modeling to the problem and dove right in. She also contributed a modeling paper, following the lead of Cin-Ty Lee, that appeared in PNAS where she demonstrated that chemical weathering has had a huge influence on the composition of the continental crust over Earth history.

Following her PhD, Xiaoming spent a fruitful two years as a post-doc at the Carnegie Institution of Science where she changed course yet again to study mineral evolution with Bob Hazen, and developed the Zn/Fe ratio in marine carbonates as a proxy for atmospheric oxygen, confirming earlier suggestions that oxygen levels were exceedingly low for much of the Proterozoic, and providing a useful new proxy to the community.

Joining the faculty in the Department of Geosciences at University of North Carolina, Chapel Hill in 2015, Xiaoming has built an ICP-MS laboratory and continued multidisciplinary studies of chemical weathering and the rise of atmospheric oxygen. She has explored additional proxies of atmospheric oxygen, such as cerium anomalies in carbonates and, with Fangzhen Teng, the use of potassium isotopes to trace chemical
weathering. She has emerged as a strong female role model and established herself as a terrific mentor of younger scientists both at UNC and at professional meetings.

On behalf of the nominating team of Jérôme Gaillardet, Tim Lyons, Fangzhen Teng, and Anat Shahar, I am proud to introduce the MGPV early geological career awardee: Xiaoming Liu. Congratulations Xiaoming!

Acceptance By Xiao-Ming Liu, University of North Carolina-Chapel Hill
October 11, 2021

Thank you, Roberta, for your generous citation. And I thank the MGPV committee, and the Geological Society of America for granting me this award. I feel very humbled to receive this honor as I see many respected geologists on the list of previous awardees. In addition, I attended my very first professional meeting – GSA annual meeting in Portland 12 years ago. I am very grateful for all the mentors and colleagues who have helped me through my early academic career.

My academic career formally started with graduate study at the University of Maryland. In searching for graduate school options I was intrigued by Roberta’s research website. Roberta’s research was very cool and she looked like a great role model. On her website, an interesting paper led by Fang-Zhen Teng et al. on lithium isotopes caught my eye. I have never heard of lithium isotopes but was able to get the main point of the paper due to its nice writing style with clear logic. So, I applied for UMD and hoped to work with Roberta to conduct a follow-up work on tracing deep Earth processes using Li isotopes. My Master’s project focused on using lithium isotopes and 2D advection-diffusion models to trace lithium behavior during contact metamorphisms. My MSco-advisor Sash Hier-Majumder introduced me to the modeling world and helped me developed good quantitative skills for my research; Roberta and I have also had lots of fun in the woods of Wisconsin with Mona Sirbescu, where they taught me how to be a real field geologist. After completing the MS project at UMD (especially writing and revising a lengthy paper with a geochemist, geophysicist, and petrologist as coauthors), I gained confidence that perhaps I can be a professor and researcher someday.

During the last semester of my MS project, I took a class on the origin and evolution of the continental crust by Roberta, where I got interested in quantifying the effect of chemical weathering and its associated erosion using my newly learned tool – lithium isotopes. Thanks to a paper written by Cin-Ty Lee et al., I performed follow up research on quantifying crustal mass loss due to weathering and wrote my term paper for Roberta’s class. It turned out chemical weathering could be very important in influencing crust composition, in contrast to what most petrologists and geochemists thought. So, I started working with Roberta Rudnick and William (Bill) McDonough on tracing continental weathering using Li isotopes on outcrop and global scales. Although this was not Roberta’s main research area and the large amount of weathering flux contradicting with her views, Roberta was open-minded enough so that we published a modified version of this term paper as her inauguration paper to the National Academy of Sciences. She encouraged me to try new ideas and was very supportive of whatever I was interested in pursuing. By the time I started working with Roberta as a graduate student, she had become a famous scientist with many responsibilities. Nonetheless, I still remembered that she has taught me how to weigh and dissolve rocks, using the mass spectrometer for accurate and precise isotope analysis. She has also helped me with various field trips to collect important samples for my graduate studies, from the woods of Wisconsin to the cold late winter streams of the Pacific Northwest. My PhD co-advisor Bill provided me with the idea that although we are serious scientists we could have good humor about life. Bill not only taught me many tricks of using a mass spectrometer but always pushed me to think more critically about my research. Most importantly, Bill taught me how to deal with difficult people. I also want to thank everyone at the UMD
Geology Department (including Mike Brown – the next awardee), who helped me make the transition from being a student to an independent scientist.

Being a postdoctoral fellow at the Carnegie Institution is one of the best postdoctoral experiences one can ever have. At Carnegie, I had unlimited freedom to work on any scientific problem using all sorts of state-of-the-art instruments. Working with Robert (Bob) Hazen and Anat Shahar was a great pressure. I want to acknowledge their generous support of my research and professional development. In addition, I thank Linda Kah and Andy Knoll for allowing me to perform sampling trips into the whole of earth history using their carbonate collection and been great collaborators and mentors over the years. I also thank everyone (including Rick Carlson, George Cody, Huan Cui, Jihua Hao, Shaun Hardy, Mary Horan, Steve Shirley, Dimitri Sverjensky, Tim Mock, and many others) for their generous support during my postdoctoral times at Carnegie. I am also very grateful to Tim Lyons who allowed me to do two-weeks of “second postdoc” with him during my transition time between Carnegie and UNC. This short but wonderful postdoc experience helped me gain confidence in investigating redox evolution on Earth’s surface.

I am also grateful to my UNC colleagues (especially Larry Benninger, Drew Coleman, Allen Glazner, Jonathan Lees, Tamlin Pavelsky, Donna Surge, and many others) for their support of me when starting at UNC – Chapel Hill. I thank my postdoctoral scholar and graduate students for their trust (I would not have chosen me as a graduate advisor five years ago) and great work, including Cheng Cao, Clement Bataille, Wenshuai Li, Heather Hanna, Xikai Wang, Lina Koschik, and various visiting scholars in my lab at UNC. I hope I have had a positive influence on their careers as they have to mine.

Finally, I want to thank my family for their support. My parents always encouraged me to pursue my dream. I declared my dream is to be a scientist when I was in ~ 10th grade after reading numerous books on science fiction and biographies of famous scientists. My parents believed me although they both thought a scientist is a foreign species that only lived in books – so out of touch for normal people. Others laughed at it because they could not believe a girl dreamed to be a scientist, which is not surprising for a person living in a small town in the China of twenty years ago. I was consistently reminded by those people including some school teachers that girls are not good at math and science. However, I came to the United States and discovered a new stereotype - “Asians are good at math”. So, if I did the math right, as an Asian women I should be a fine scientist. Two decades later, our scientific community and society still have plenty of bias towards minorities and women. I am pretty happy that the situation has improved much in the recent years with the ‘Stop Asian Hate’ and ‘Black Lives Matter’ movements. And I am positive about the future and continue to train future generations of diverse students in Earth Sciences and beyond.

Thank you once again for this great honor! I would love to thank my husband Dawei and my son Chris for their support! Especially Chris for enriching my life and making me a more efficient person! The past year has been difficult for everyone including working parents like us and I hope we can manage COVID and have more in person conferences soon!
2022 (and 2020) Awardees

MGPV is sponsoring a session for the Distinguished and Early Geological Career Awardees' citations, acceptances and awardee lectures that will include both the 2022 awardees as well as the long delayed 2020 awardees. Our awardees:

2022 MGPV Division Distinguished Geological Career Award to Jane Selverstone

The MGPV Division is pleased to announce that Jane Selverstone, University of New Mexico is its 2022 MGPV Distinguished Geologic Career Awardee. The award will be presented during the 2022 GSA Annual Meeting, Denver, CO.

Jane Selverstone’s career contributions are rooted in careful field geological work that integrates thermodynamics, petrography, and geochemistry to unravel the relationships among fluids, metamorphism, and deformation of crustal rock. She brings diverse laboratory techniques to bear, such as chemistry, isotopic analysis, fluid inclusion analysis, electron probe mineral compositions and microstructural analysis to quantify P-T-fluid histories.

Perhaps her most notable work grew out of an attempt to understand how lower crustal rocks deformed when the upper and middle crust of the Alps underwent post-orogenic extension and normal faulting, a phenomenon that she appreciated before most had even recognized it, and to which she, more than virtually everyone, has contributed.

She has worked on: the tectonics of the Tauern Window; the first identification of diamonds in the Alps; the development of P-T path calculations in metamorphic terranes; the concept of CO$_2$ sequestration during metamorphism; fluid inclusions and fluid compositions in high pressure metamorphic rocks; metasomatism during ductile shearing; and, lastly, chlorine isotope and halogen chemistry in metamorphic rocks. Jane worked with her Ph.D. advisor Frank Spear to develop and apply the Gibbs Method for determining quantitative P-T paths in metamorphic terranes. This elegant method takes into account mineral zoning and uses the slopes of isopleths (dP/dT, dX/dT and dX/dP) to contour PT paths for a given rock. The method was first discussed in Spear and Selverstone (1983) and has since been used in hundreds of publications. In the last decade, Jane turned her emphasis to geochemistry, using Cl isotopes to evaluate fluid mobility and sources in metamorphic terranes. In a series of papers either first authored or coauthored with Ph.D. student Jamie Barnes, Jane used multiple isotope systems to evaluate mantle metasomatism in a number of settings.

In addition to being an internationally recognized researcher, Jane is a clear and especially effective communicator, both in papers and oral presentation. She has been generous (and visible) with her professional service. Jane is a creative and passionate teacher. She is serious and effective in educating introductory level students to be more knowledgeable and concerned about the Earth they live on. She serves as a valuable role model and supportive mentor to women students, who remain a minority in our science.

2022 MGPV Division Early Career Award
to Hannah R. Dietteric

The MGPV Division is pleased to announce Hannah R. Dietteric, Alaska Volcano Observatory, Anchorage, AK is its 2022 MGPV Early Career Awardee. The award will be presented during the 2022 GSA Annual Meeting, Denver, CO.

Hannah Dietterich is a Research Geophysicist at the U.S. Geological Survey Alaska Volcano Observatory. Most of her work is rooted in field observations and is enhanced throughout with technology-enabled data collection and analysis. She focuses on the physics of volcanic processes, remote sensing of volcanic activity, numerical modeling of volcanic hazards, and probabilistic volcanic hazard assessment. Her work is immediately useful to society by quantifying hazards to life and property; and it is moving our understanding of lava emplacement from the qualitative and empirical to a more physics based and, therefore, predictive and reliable for emergency managers, decision-makers, and those at risk.

2020 MGPV Division Distinguished Geological Career Award
to Cathy J. Busby

Cathy Busby is cited for significant contributions to all fields relevant to mineralogy, geochemistry, petrology, volcanology, with emphasis on multidisciplinary, field-based contributions. Dr. Busby has been a professor at the University of California for 32 years. Her B.S. is from Berkeley, and her Ph.D. is from Princeton, both in Geological Sciences. Dr. Busby is one of the most influential and accomplished field geologists of our era, playing a decisive role in shaping our modern view of arc systems. Her work has been well cited to be sure, but citations provide too narrow a view to appreciate her influence. Her ideas, derived from fieldwork, geochronology, and petrologic and sedimentological insights, are remarkably wide-ranging and prescient, providing a 4-dimensional view of arc evolution.

Dr. Busby was perhaps the first to fully appreciate that many arc volcanic systems, and perhaps most calderas, develop within trans-tensional tectonic settings (Busby-Spera 1988)—a recognition that segued into a model of plate boundary formation (e.g. Busby 2013). In the southwest U.S. Cordillera, she established that the timing and deposition of arc-related volcanoes and sediments, and granite batholith emplacement, are controlled by trans-tensional forces, even while the larger tectonic setting is convergent and implicitly compressive.

In terms of cover strata studies, she has spent a significant fraction of the later stages of her career in studying late Tertiary volcanic basins along the eastern California shear zone Walker Lane belt. Based on rigorous field investigations, Dr. Busby and her coworkers reconstructed a complex interplay between faulting, local basin subsidence, and the temporal and spatial relations between arc and immediately post-arc rift volcanism.

She has traveled and lectured in many countries and most recently has taken the skills honed throughout her career to contribute to the IODP mission, working in the Izu-Bonin-Mariana backarc and on a comparison of the IODP ultra-deep drill site, Izu-Bonin Arc, to a crustal section through an oceanic arc in Baja California.
2020 MGPV Division Early Career Award to Sebastien Biass

Sebastien Biass is equally adept with field characterization of the geometry of eruption products, quantification of volcanic processes, statistical analysis of field data, and quantitative assessment of volcanic risk (including various aspects of volcanic impact and vulnerability). Dr. Biass’s work is pioneering new strategies for the quantitative characterization of tephra deposits and of the associated hazards, impact and risk. The blend of quantitative field measurements and innovative numerical strategies shows a strong appreciation of the importance of statistical and critical treatment of field data within numerical modelling. Such understanding and appreciation are lacking in many numerical studies, which is what makes his scientific approach unique and ground-breaking.

Dr. Biass’ unique approach to volcanology stems from combining thorough field studies with state-of-the-art numerical modeling. He developed his own strategies that combine the physical description of explosive eruptions and advanced computing (e.g. parallel modeling) to produce comprehensive hazard and risk assessments. Dr. Biass also dedicated a great effort to characterize uncertainties associated with the derivation of eruptive parameters associated with explosive volcanism (i.e. erupted volume, plume height and mass eruption rate). Since these parameters are used as input parameters in tephra dispersal models, they have a great impact on the final model outputs.

Dr. Biass’ contributions to the field – especially in using meticulous field data to improve models of tephra fallout and ballistic transport – stand on their own as powerful contributions.

MGPV at Denver, Colorado
9-12 October 2022

• Technical Sessions. MGPV and its Adhering Societies are endorsing a number of proposed sessions. MGPV will be sponsoring a session of citations, acceptances and awardee lectures for both the 2022 and 2020 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, MSGBI), 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 have an opportunity to place your abstract in the most appropriate session.

• Reception. If there is a significant in-person meeting, the MGPV Division plans to join with the Mineralogical Society of America and the Geochemical Society in a joint reception.

• Business Meeting. The Division will have its required business meeting about the time of or during the Annual GSA Meeting. Format (virtual or in-person), time, and location yet to be announced. There will be a brief update about the Division, and an opportunity to ask questions or make comments.
MGPV at GSA Section Meetings

MGPV will have booths 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.

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. Please consider developing and submitting theme session topics for 2023 and future Section meetings. Now is the time to approach the organizers of those meetings to get MGPV Division theme sessions into the programs.

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, discussion group. GSA’s Connected Community is a member-only, on-line community.

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 all of 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, then leveled off:

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Division Affiliates</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>547</td>
</tr>
<tr>
<td>2010</td>
<td>972</td>
</tr>
<tr>
<td>2011</td>
<td>1,437</td>
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<td>2012</td>
<td>1,434</td>
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<tr>
<td>2015</td>
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<td>2016</td>
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<td>2017</td>
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<tr>
<td>2020</td>
<td>1,797</td>
</tr>
<tr>
<td>2021</td>
<td>1,716</td>
</tr>
</tbody>
</table>

In 2014, GSA instituted a policy wherein students can join their first Division at no cost. This new policy dramatically increased total MGPV membership, and increased student membership from about 30% to 60%. But another result is 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.
Financial Summary

As of 06/30/2021, MGPV has a (unrestricted) cash balance of $19,603.69.

Income

Dues income in 2020-2021 (GSA’s and the Division’s fiscal year to July 1 through June 30) was $7,129.16. This is slightly less than the previous 12-month periods dues of $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 student research grants, student travel grants, and travel for the 2021 Distinguished Geological Career and Early Career Awardees. In addition, the Lipman Research Fund provided $60,000 and the Ian S.E. Carmichael Research Award $1,430 to fund student research grants.

Expenses

Division expenses from dues during this period were $27.00 for AV services, postage, shipping, and freight; and $5,000.00 for student research grants (MGPV and balance of Carmichael), awards, student, and awardee travel support. $61,500 was dispersed for student research grants from the Lipman and Carmichael Funds. There were no reception expenses for either the GSA 2020 Connects and upcoming GSA 2021 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 & MSA).

Liabilities

With GSA 2020 Connects being online, expenses that would have accrued for awardee by the 2020 awardees (Cathy J. Busby travel and Sebastien Blass) have been delayed until GSA 2022 in Denver, Colorado, USA.
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.

Voting takes place during August, and officers will be inducted at the annual business meeting in the fall (northern hemisphere). For this to happen, the committee needs to be in place by April 1 and the slate submitted to GSA by July 1.

The *Program Committee* 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 (2022 award):** Dennis L. Newell (Chair), Mihai Ducea (2019-2021), Maureen Feineman (2019-2021), Andrew Calvert (2020-2022), Mary Leech (2020-2022), Gregory Dumond (2021-2023), Cailey Condit (2021-2023)
- **Early Career Award Committee:** Amanda Clarke (Chair), Tracy K. P. Gregg (2020-2022), Dina Lopez (2020-2022), David Peate (2020-2022), Mary Reid (2020-2022), Karen Bemis (2021-2023), Loyc Vanderkluysen (2021-2023)
- **Officer Nominations Committee:** Rosemary Hickey-Vargas (Committee Chair, 2020 past MGPV chair), John Shervais (2020 past MGPV chair), Anita Grunder (2019 past MGPV chair), Wendy Bohrson (2018 past MGPV chair)
- **Student Research Grants** (for 2021): Rosemary Hickey-Vargas (Chair), and MGPV Division Officers: Rosemary C. Capo, Dennis L. Newell, Amanda B. Clarke
- **Student Travel Grants (for 2021):** (Chair), and MGPV Division Officers: Rosemary C. Capo, Dennis L. Newell, Amanda B. Clarke
- **JTPC Representatives:** Dennis L. Newell, Amanda B. Clarke
- **Council Liaison:** Carmala Garzione, University of Rochester
• **MGPV Voting Election 2022.**

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.

The election in 2022 will be for Second Vice-chair. For members who have given GSA their e-mail addresses, voting is online. The message notifying you that voting is open will contain the necessary USERID and password for you to do so. Members who do not have internet access will receive a paper ballot through the US mail from GSA.

• **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](http://community.geosociety.org/mgpdivision/home). 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 bequests but many members contribute to the MGPV Division each year by including a contribution with their dues.

• **GSA Student Advisory Council.**

SAC activities include promoting GSA’s opportunities by posting available research/outreach grants, programs, workshops and recognizing student representatives on their social media (Twitter) and creating the GeoScene newsletter (which includes a roundup of the most recent opportunities for students and early career professionals). They welcomed Yueyi Che as the new Chair, Miguel Valencia as the chair-elect and Rebecca Taormina as the past chair. Link to [GeoScene](http://community.geosociety.org/mgpdivision/home).

**Announcements**

from MGPV:

[1] Consider nominating deserving candidates for MGPV Division’s Distinguished Geologic Career and Early Career Awards. Procedures and deadline (31 March 2022) for nominations are given on the [MGPV Division’s Connected Community site](http://community.geosociety.org/mgpdivision/home).

[2] MGPV will have booths in the Exhibit Halls 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.

from the Adhering Associated Societies:

- A listing of MGPV-related Scientific Meetings and Events is on the *Elements* magazine calendar site.
• The **Mineralogical Association of Canada (MAC)** Annual Meeting is May 15 to 18, 2022, Halifax Convention Center, Halifax, Nova Scotia, Canada. Halifax 2022 is a joint meeting of the Geological Association of Canada (GAC), the Mineralogical Association of Canada (MAC), the International Association of Hydrogeologists – Canadian National Committee (IAH-CNC), and the Canadian Society of Petroleum Geologists (CSPG). The hosting society is the Atlantic Geoscience Society (AGS). Several other groups will also be providing content and coordinating with Halifax 2022. Please check the GAC-MAC 2021 website for new abstract submission and registration dates, and other information.

• **The Clay Minerals Society (CMS) 58th Annual Meeting** will be held in Istanbul, Turkey, 25–29 July 2022 meeting with the Clay Science Society (Turkey) and co-hosting Internationale pour l'Etude des Argiles (AIPEA)'s 17th International Clay Conference 2022 (17th ICC 2022). Details.

• Nominations for the CMS 2022 Awards and applications for the CMS Student Research and Travel grants are due 1 March 2022. Details.

• **Goldschmidt 2022.** The next Goldschmidt Conference® will take place in Honolulu, Hawai‘i, USA and online from 10-15 July 2022. This year’s Goldschmidt Conference will be fully hybrid, giving delegates the choice of participating in person in Hawai‘i 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) and the volunteer team.

• **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 2022.

• The Mineralogical Society of America (MSA) invites applications for the 2022 MSA Grant for Research in Crystallography and for the 2022 MSA Student Research In Mineralogy and Petrology. There are up to three research grant awards of $5,000 each. Application deadline is 1 March 2022. 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 anytime.
• The Mineralogical Society of Great Britain & Ireland (MSGBI) 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.

Video Contest 2022. If metamorphic rocks are your favourite, tell a story of why metamorphic geology rocks!

We encourage everyone with a passion for Earth Sciences and metamorphic rocks to submit their video, while keeping in mind that the video has to be about metamorphic geology. Each submission should be made using the equipment and resources that are easily and freely available to you, such as your mobile phone for recording. Whether you’re a student, an early career professional or a professor, we encourage you to participate. Students under legal age can participate together with a teacher. The teacher will be considered the participant but they should write, on their application, the name of the student, their school and age.

Submissions from any country and nationality are welcomed and we particularly encourage people from minority backgrounds to participate. Video submissions close on the 7 March 2022. Details.

Video Contest 2021. Environmental Mineralogy Group – Science Outreach Video Competition 2021 winners:

Best student video: Tourmaline by Katarina Culverhouse

Best graduate/postgraduate video: Ferrihydrite, small but powerful by Giulia Fantappie Andrew Grigg Ruben Kretzschmar Joelle Kubeneck Luiza Notini Katherine Rothwell Katrin Schulz Laural ThomasArrigo

Most unusual mineral video: Nontronite – An animated introduction by Katherine Rothwell and Craig Thompson

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
Division Management Board

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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
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