## MINERALOGICAL SOCIETY OF AMERICA

# 2020 ANNUAL REPORT



# In 2020, MSA . . .



... celebrated the first Minerals Day on October 12, 2020, as part of Earth Science Week.

... held its first virtual Short Course via Zoom on Triple Oxygen Isotope Geochemistry with 135 attendees.





. . . thanked 2020 President Carol Frost for her leadership and welcomed 2021 President Mark Ghiorso.

... collected and posted online teaching resources for virtual courses in mineralogy, petrology, and geochemistry.



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... grew its social media presence by adding a Twitter feed and a YouTube Channel.

... convened a Diversity Task Force to explore ways of increasing equity, inclusion, and diversity in the field.



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| TRIPLE OXYGEN  |
| ISOTOPE  |
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| EDITORS<br>Ifar N. Bindmare & Andreas Pack               |
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... published RIMG #86: Triple Oxygen Isotope Geochemistry.

. . . re-formed its MSA Membership Committee with John Brady as the Chair.





... Conducted its first annual membership meeting in a virtual format due to the pandemic.

... Released digital versions of Don Bloss' two books on Crystallography.





. . . published 163 science papers from 38 countries ir the *American Mineralogist*.

## **LETTER FROM MSA PRESIDENTS**



Mark Ghiorso

Carol Frost

2020 inaugurated MSA's second century, and what a year it was! We adapted many of our activities so that they could continue despite social distancing and the travel restrictions of the Covid-19 pandemic. This forced us to be creative, and in many instances our new approaches enabled MSA to serve our members and the larger community better than before. Take these examples:

**The MSA Lecture Program went virtual**. Our able Lecture Program Administrator, Prof. David Jenkins, arranged for the final lectures of the 2019-2020 academic year to be delivered virtually. This format allowed us to record and archive the presentations so they can be archived as part of our MSA educational resources. We plan to continue recording MSA Distinguished Lectures so they can be viewed widely.

**Our publications continue to thrive.** Perhaps because of conditions imposed by the pandemic, *American Mineralogist* received a record number of submissions. Three RIMG volumes are in the works: *Triple Oxygen Isotopes* appeared in December, and *New Views of the Moon II, Geological Melts,* and *Diamonds* are scheduled for 2021. The *Triple Oxygen Isotopes* short course was conducted virtually, and all lectures were recorded and will soon be available on YouTube, making them accessible to interested faculty, students and the broader scientific community. That is a precedent we will follow for all future courses.

**MSA recognized medalists and awarded student research grants**. Our student recipients of the Kraus Crystallographic and Mineralogy/Petrology Research Grants used MSA support to study mineral surface coatings on colloids in acid mine drainage, magma decompression rates, and Zr stable isotope fractionation. Citations for our MSA Roebling, Dana, and MSA Award medalists and their acceptance speeches will appear shortly in *American Mineralogist*, although public recognition awaits the awards luncheon at 2021 GSA in Portland.

**MSA started new activities**. In partnership with AGI's Earth Science Week, MSA inaugurated Minerals Day with a microsite, webinars, and online educational activities. MSA also started a Min/Pet in Higher Education research study, revived our membership committee, and convened a diversity task force that proposed actions which will serve our increasingly diverse membership and benefit broad public interests.

**Despite an unusual year, our new executive director kept MSA on track**. The MSA Council adapted well to virtual meetings. Our endowments experienced a rollercoaster but emerged in positive territory at year's end. And thanks to a huge effort from Dr. Ann Benbow and MSA staff, we can look forward to a redesigned website soon! 2020 wasn't the year anyone anticipated, but MSA made the most of it.

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Carol Frost, 2020 MSA President

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Mark S. Ghiorso, 2021 MSA President



## **MISSION**

The Mineralogical Society of America (MSA) was founded in 1919 for the advancement of mineralogy, crystallography, geochemistry, petrology, and promotion of their uses in other sciences, industry, and the arts. MSA encourages fundamental research about natural materials; supports the teaching of mineralogical concepts and procedures; and works to raise the scientific literacy of society on issues involving mineralogy in the widest sense. The Society encourages the preservation of mineral collections, displays, mineral localities, type minerals and scientific data. MSA represents the United States internationally with regard to the science of mineralogy.

To accomplish its goals, the Society publishes journals, magazines, and books, as well as uses short courses, lectureships, Internet website, awards, grants, symposia, and meetings for professionals, students, and the public. MSA depends on the involvement of all individuals who are concerned with the health and direction of the field of mineralogy. The society cooperates with other scientific and organizations, and continually explores and adopts new programs and policies to better serve its members.

## **MEMBERS**

Membership in the Society is open to any person interested in mineralogy and related sciences regardless of residence or citizenship. Individuals from all 50 states, the District of Columbia, several territories, and about 40 countries belong to the Society, giving it and its publications an international aspect. In addition to joining a global community of mineralogists and petrologists,

MSA Members receive online access to *American Mineralogist*, print and electronic access to *Elements* magazine, and discounts on publications and registrations.

The membership of the Society comprises Honorary Fellows, Fellows, Members, Early Career, Students, Senior Fellows and Members, and Sustaining Fellows and Members. All members are eligible to participate in Society affairs. In 2020, membership was 2,036.



## **MSA HISTORY**

The Mineralogical Society of America (MSA) was founded in 1919 in Boston, MA by Dr. Edward H. Kraus of the University of Michigan. Twenty-eight mineralogists attended the organizational meeting of MSA on December 30, 1919 at the Harvard University Geological Museum. The first meeting of the Executive Council was the next day, at which time, a vote was taken to make *The American Mineralogist*, first published in 1916, the Society's journal.

MSA had its first annual meeting in 1920. Thereafter, MSA focused its attentions on improving the journal and the financial health of the society, a task made easier by a gift from Washington Roebling in 1927, but then more difficult by the Great Depression and WW II. Except for initiating the Roebling Medal in 1937 and the MSA Award in 1950, MSA remained much the same for years.

From the time of the organization's 50th anniversary, however, MSA started to expand its programming: Special publications in the 1960s; short courses, *Reviews*, and research grants in the 1970s; Lecture Program, AMU Awards, and a stand-alone office in the 1980s, Distinguished Public Service Medal, monographs, textbooks, MSA-Talk, and website in the 1990s; Mineralogy-4-Kids, Ask-a-Mineralogist, Dana Medal, *Handbook of Mineralogy*, GeoScienceWorld, online archive of the *American Mineralogist*, and *Elements* magazine in the 2000s.



MSA's Founder, Dr. Edward H. Kraus

### **MSA GOVERNANCE**

#### **Officers and Council**

The MSA Council, which meets three times a year, is comprised of the President, Past-President, Vice-President, Treasurer, Secretary, and six Councilors elected from the membership. The President, Past-President, Vice-President, Secretary, Treasurer form the Executive Committee, which governs the Society when Council is not in session.

Both the 2019 and 2020 Council Members are included in this report, as the 2020 term began on September 21, 2019 at the First 2020 Council Meeting held at the Annual Conference of the Geological Society of America.

## 2020 Council

#### Officers



Carol D. Frost, President University of Wyoming



Mickey E. Gunter, Past President University of Idaho



Mark Ghiorso, Vice-President University of Washington



Kimberly Tait, Secretary Royal Ontario Museum



Thomas Duffy, Treasurer Princeton University





**Donna Whitney** University of Minnesota



Mark Caddick Virginia Tech



Jay Ague Yale University



Przemyslaw Dera University of Hawaii at Manoa 6



Adam Simon University of Michigan



Francis McCubbin NASA Johnson Space Center

## 2021 Council

#### Officers



Mark Ghiorso, President University of Washington



Carol D. Frost, Past President University of Wyoming



Pamela Burnley, Vice-President University of Nevada Las Vegas



Kimberly Tait, Secretary Royal Ontario Museum



**Glenn Gaetani, Treasurer** Woods Hole Oceanographic Institution



Adam Simon University of Michigan



Francis McCubbin NASA Johnson Space Center



Mark Caddick Virginia Tech



Jennifer Jackson California Institute of Technology



**Przemyslaw Dera** University of Hawaii at Manoa



Robert Bodnar Virginia Tech

#### **Councilors**

## **Minerals Day**

MSA collaborated with Earth Science Week (American Geosciences Institute—AGI) to launch the first ever Minerals Day on October 12, 2020, the Monday of Earth Science Week (ESW). The ESW theme for 2020 was Earth Materials in Our Lives, which was the ideal context for Minerals Day. MSA also worked with Minerals Day Partners to launch a new microsite, develop two downloadable posters, host a series of webinars, and create an online educational resource. In addition to ESW and AGI, Minerals Day Partners included The Gemological Institute of America, the U.S. Geological Survey, The National Stone, Sand, and Gravel Association (NSSGA), and the Industrial Minerals Association—North America. The URL for the Minerals Day microsite is www.mineralsday.org.



## **Minerals Day**

As part of the Minerals Day celebration during Earth Science Week, MSA hosted a series of online presentations on topics of high interest to both the scientific community and the general public. MSA would like to thank the presenters for so generously sharing their time and expertise.

Presenters included:

- Dr. Shaunna Morrison, Carnegie Institution for Science Data-Driven Discovery in Mineralogy and the Evolution of Planetary Bodies
- Dr. Aaron Palke, Gemological Institute of America Gemology: Time Capsules Connecting Us Through History
- Dr. John Rakovan, University of Miami New Insights into Wire Silver and Gold Formation
- Dr. Elizabeth Rampe, NASA Advances in the Mineralogy of Mars
- MSA also promoted presentations organized by AGI and the USGS:
- Dr. Angel Abbud, Colorado School of Mines Resources Beyond Earth: Enabling Future Exploration and the New Space Economy
- Dr. Shannon Mahan, USGS May the Quartz Be With You
- Dr. Norbert Zajzon, University of Miskolc

The Need and Solutions for Robots in Responsible Raw Materials Exploration and Mining



## Programs

#### **Distinguished Lecturer Program**

Since 1989, MSA has offered schools the opportunity to hear talks about recent advances in mineralogy through its Distinguished Lecturer Program.

MSA pays travel expenses of the Lecturers and the host institution is responsible for local expenses, including accommodation and meals. Each year MSA Lecturers visit about 30 colleges and universities world-wide.

#### In 2020:

- Distinguished Lecturers were Joshua M. Feinberg, Jasquelin Peña, and Laura E. Waters. The Lecture Program Administrator is David M. Jenkins.
- Lecture topics included, among others: Beyond paleomagnetism: What magnetic minerals tell us about pollution, biology, archaeology, and climate change (Feinberg); Nature's most potent oxidants: Insights into manganese oxide structure-reactivity relationships (Peña); and Why doesn't continental crust evolve to its fullest potential? (Waters)
- Due to the COVID-19 pandemic shutdown, the Distinguished Lecturer Program was put on hold for the spring of 2020.



You can find *K-12 Resources* on the MSA web site at <u>http://www.mineralogy4kids.org/</u>.

**Mineralogy4Kids** is a mini-site with information for students and teachers on mineral groups, properties, and identification; household minerals; crystals; the rock cycle; and mineral games. It is the **most visited** part of the MSA website.

#### **Education Programs**

MSA's education programs include short courses, workshops, the Minerals Day website, Online Teaching Resources, and Mineralogy4Kids.

*Short Courses* are two- to four-day, in-depth instructional courses, typically given in conjunction with major meetings. They are taught by several invited speakers who also write the accompanying *Reviews in Mineralogy and Geochemistry* volume. There have been 58 courses since 1974.

#### In 2020:

- The Short Course was on December 18 via Zoom. Ilya Bindeman and Andreas Pack moderated the course, entitled *Triple Oxygen Isotope Geochemistry*.
- MSA launched the Online Teaching Resources portion of its website with labs, content, textbooks, videos, teaching suggestions and many other resources suggested by subscribers to MSA-Talk. MSA continues to add to this resource.

## **Research Grants**

#### Mineralogy/Petrology Research Grant

The Mineralogical Society of America's Grants for Student Research in Mineralogy and Petrology are funded by an endowment created by contributions from the MSA membership.

The grant comprises two awards of up to \$5,000 each for research in mineralogy and petrology. Students, including graduate and undergraduate students, may apply.

All proposals are considered together. The award selection will be based on the qualifications of the applicant, the quality, innovativeness, and scientific significance of the research, and the likelihood of success of the project.

The 2020 winners of the grant were Behnaz Hosseini, Montana State University, Bozeman, MT, USA -"Reentrants: Reliable recorders of magma decompression rates?" and Hannah Tompkins, University of Rochester, Rochester, NY, USA - "Understanding Zr stable isotope fractionation in magmatic environments: Insights from experimental systems."

**Behnaz Hosseini** 





**Hannah Tompkins** 

**Kraus Crystallography Research Grant** 

The Mineralogical Society of America's Grant for Research in Crystallography is funded by the Edward H. Kraus Crystallographic Research Fund with contributions from MSA members and friends. The grant awards up to \$5,000 for research in the field of mineralogical crystallography. This grant targets projects within the areas of mineralogy, crystal chemistry, petrology, mineral physics, biomineralization, and geochemistry that can employ a variety of crystallographic, spectroscopic, analytical, and computational techniques. Graduate and undergraduate students, as well as beginning faculty and young researchers are encouraged to apply. All proposals are considered together.

The 2020 winner of the Kraus Grant was Md Abu Raihan Chowdhury, Kent State University, Kent, OH, USA for his project "The role of mineral surface coatings on colloids in controlling metal transport in acid mine drainage-impacted areas."

Md Abu Raihan Chowdhury

## Awards

#### **Roebling Medal**

First awarded in 1937, the Roebling Medal is the Society's highest honor. It is given in recognition of an individual's lifetime scientific eminence as represented primarily by publication of outstanding original research in mineralogy.

The 2020 Roebling Medal awardee was Dr. Andrew Putnis of the University of Münster, Germany . Dr. Putnis has Bachelor degrees from the University of Newcastle, Australia (Physics) and from the University of London (Geology) and a PhD from the University of Cambridge. Between 1981 and 1995 he was a Lecturer in Earth Sciences in the University of Cambridge, and from 1995 until 2014 was Professor of Mineralogy at the University of Münster, Germany. Dr. Putnis joined Curtin University in Perth, Australia as Director of The Institute for Geoscience Research from 2015-2020. He is now a Senior Professor at the University of Münster and holds Adjunct Professorships at Curtin University and Murdoch University in Perth.



Dr. Daniela Rubatto



**Dr. Andrew Putnis** 

#### **Dana Medal**

This award recognizes sustained outstanding scientific contributions through original research in the mineralogical sciences by an individual in the midst of his or her career who has not been previously recognized [for his/her achievements-remove] as a recipient of the MSA Award.

The 2020 Dana Medal awardee was Dr. Daniela Rubatto of the University of Bern, Switzerland. Dr. Rubatto is a leading metamorphic geochemist and a driving force behind the emergence of the field of petrochronology (geochronology of petrological processes). She has pioneered new research approaches aimed at timing and revealing crystal-scale signatures to understand plate tectonic processes. Her recent interests include the dynamics of fluids in the crust investigated through mineral zoning in oxygen isotopes and trace elements. She is an elected Fellow of the Geochemical Society and of the Mineralogical Society of America, and received the 2019 Robert Wilhelm Bunsen Medal from the European Geosciences Union. Dr. Rubatto graduated at the University of Torino, received a PhD from the ETH-Zurich and spent most of her academic life at the Australian National University, Canberra, before returning to Europe at the University of Bern.

## Awards

#### 2020 MSA Award

This is an award for an outstanding single or series of published contributions in the areas of mineralogy, crystallography, geochemistry, petrology, or related fields. The award is meant to recognize a scientist beginning his or her career. The 2019 MSA Awardee was Dr. Jin Liu. Dr. Liu (刘锦) is a staff scientist at the Center for High Pressure Science and Technology Advanced Research (HPSTAR), Beijing, China. He obtained his Ph.D. degree in mineral physics from the University of Texas at Austin in May 2015, and worked as a postdoctoral research fellow at Stanford University in 2015 -2018. Towards a better understanding of the deep interiors of Earth and planetary bodies, his research involves probing the behavior of planetary materials in extreme environments through interdisciplinary collaboration with theorists, geochemists, petrologists, seismologists, and geodynamicists. He has published more than 60 articles in peer-reviewed journals including Nature, NSR, Nature Geosci., Nature Commun., GRL, and Amer. Mineral. and served as an editorial board member of Matter and Radiation at Extremes (MRE). He is the recipient of the 2020 Mineralogical Society of America Award, the 2020 Hou Defeng Young Scientist Award, and the 2019 AIRAPT Jamieson Award.



Dr. Jin Liu



## **Undergraduate Prize**

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 was cited by his or her department for outstanding achievement in mineralogy-related courses. The MSA Prize allow MSA to join with the individual faculty to formally recognize outstanding students.

Each student is presented a certificate at an awards ceremony at his or her university or college. In addition, each recipient receives a student membership in MSA with access to the electronic version of *American Mineralogist* and *Elements*, as well as in *Reviews in Mineralogy and Geochemistry* or *Monograph* volume chosen by the sponsor, student, or both.

#### **Recipients of the 2020 Undergraduate Prize:**

- Sarah Beethe, The George Washington University, Sponsored by Prof. Richard P. Tollo
- Emma Belanger, The George Washington University, Sponsored by Prof. Richard P. Tollo
- Abigail B. Boak, Mt. Holyoke College, Sponsored by Dr. Steven R. Dunn
- Sophie Bonnington, University of Otago, Sponsored by Dr. J. Michael Palin
- Stephen D. Clapp, Florida State University, Sponsored by Dr. Mainak Mookherjee
- Anthea Coleman, University of Otago, Sponsored by Dr. J. Michael Palin
- Nadia Dworian, University of Wyoming, Sponsored by Dr. Simone Runyon
- Matteo Ferri, University of Victoria, Sponsored by Prof. Dante Canil
- Isabelle Troutman Harris, Furman University, Sponsored by Prof. William A. Ranson
- Caleb Isaac, University of British Columbia, Sponsored by Prof. James Scoates
- Liviya Kovacevic, The University of Vermont, Sponsored by Prof. Julia Perdrial
- Zoe Leuba, Towson University, Sponsored by Dr. Wendy Nelson
- Christian Lockwood, Williams College, Sponsored by Prof. R.A. Wobus
- Kyle Ma, University of Texas at Austin, Sponsored by Prof. Jung-Fu Lin
- Aria Mason, Williams College, Sponsored by Prof. R.A. Wobus
- Andrew Miller, University of Wyoming, Sponsored by Dr. Simone Runyon
- Alec William Musick, Missouri State University, Sponsored by Prof. Gary Michelfelder
- Katherine Pippenger, Williams College, Sponsored by Prof. R.A. Wobus
- Abigail Pirkle, University of Wyoming, Sponsored by Dr. Simone Runyon
- Hunter Polhemus, University of Hawaii at Manoa, Sponsored by Prof. Julia E. Hammer
- Ian Rueda, University of California Santa Barbara, Sponsored by Prof. Roberta Rudnick
- Tyler Seyglinski, Towson University, Sponsored by Dr. Wendy Nelson
- Hannah Shabtian, University of California Santa Barbara, Sponsored by Dr. Matthew Rioux
- Berry L. Williams, Smith College, Sponsored by Dr. Sarah E. Mazza
- Laurie Zielinski, Princeton University, Sponsored by Prof. Thomas Duffy

## **2020 Fellows**

Members who have contributed significantly to the advancement of mineralogy, crystallography, geochemistry, petrology, or allied sciences and whose scientific contribution used mineralogical studies or data, may be designated as Fellows upon proper accreditation by the Committee on Nomination for Fellows and election by the Council. Recipients of the Roebling Medal and Mineralogical Society of America Award automatically become Fellows. The 2020 Fellows are pictured below in alphabetical order.



Jeffrey Catalano University of Florence



Sylvie Demouchy J.W. Goethe-Universitaet



Pupa Gilbert Rice University



Jun-ichi Kimura University of Texas-Austin



Othmar Muntener Fibernetics, LLC



Marc Norman Fibernetics, LLC



Alison Pawley University of Science and Technology of China



Mark Rivers University of Notre Dame



lan Swainson Carnegie Institution for Science



Takashi Yoshino Carnegie Institution for Science

## **Publications**

#### American Mineralogist

American Mineralogist, subtitled An International Journal of Earth and Planetary Materials, is the print journal of the Society, and it has continuously appeared since 1916. It publishes the results of original scientific research in the fields of mineralogy, crystallography, geochemistry, and petrology with the goal of providing readers with the best in earth science research. Editors are Dr. Donald Baker, McGill University, Montreal, Quebec, Canada, and Dr. Hongwu Xu, Los Alamos National Laboratory, Los Alamos New Mexico, USA.

#### In 2020:

- 1,400 institutional subscribers (including Geo-ScienceWorld and DeGruyter subscribers).
- 445 paper submissions; 163 papers published from 38 countries.
- 57% acceptance rate.



#### American 1919 - CENTENNIAL - 2019 WINE CONTRACT 1ineralogist Mineralogical Society of America Journal of Earth and Planetary Mate Vol. 104, No. 11 November 2019 Vol. 104, No. 12 December 2019 ADS IN FARTH AND PLANETARY MATERIALS ENNIAL ARTICLE 1701 High-pressure mineral Thermal diffusivity and thermal conductivity of granitoid at 283–988 K and 0.3–1.5 GPa ROADS IN EARTH AND PLANETARY MATERIALS RODEN IN DAME FLAME OF THE ACCOUNT O Computer modeling of apparentl The intriguing case of all-silica fe COLLECTION: DYNAMICS OF MAGMATIC PR 750 Intra-eruptive trachyte-phonolite transition: Natural evidence and experimental constraints on the role of crystal mushes ECIAL COLLECTION: HIGH-GRADE METAMORPHISM, ANATEXIS, AND GRANITE MAGM The Italian Solfatara as an analog for Mars fu 1765 Geochemistry of phosphorus and the behavior of apatite dur crustal anatexis: Insights from melt inclusions and nanogranite Cheir Adverschule and Astronic Acoustic Meil PECIAL COLLECTION: PHYSICS AND CHEMISTRY OF EARTH'S DEEP MANTLE AND COF Static compression of Fe,N to 77 GPa and its implications fo nitrogen storage in the deep Earth Helene Breton, Tengya Komatowich 788 A comparison between the stability fields of a CI-rich sc and the end-member marialite onstraining the timing and character of crustal mel e Adirondack Mountains using multi-scale composi apping and in-situ monazite geochronology chael J. Williams, Timothy Grover, Michael J. Jereinovic, Sean P. Rega 1800 Electrical conductivity studies on silica phases and the effects of phase transformation George M. Amulele, Anthony W. Lanati, and Simon M. Clark Melting in the Fe-FeO system to 204 GPa: Implications for oxygen in Earth's core ore Shoh Tagawa, Yuto Kidokoro, Yoichi Na Shihimme Morard, Nicolas Coudurier, REE-, Sr-, Ca-aluminum-phosphate-sulfate minerals of th alunite supergroup and their role as hosts for radionuclide Controls on tetrahedral Fe(III) abundance in 2:1 phyllosilicate Javier Cuadros, Joseph R. Michalski, M. Darby Dyar, and Vesselin Dekov 1820 Experimental quantification of the Fe-valence state asbestos boundaries using acSTEM dual-electron en spectroscopy Find Controls, Dought K. Instantiatis, in: Dough 22 and a Control Double tability, composition, and crystal structure of Fe-bearing hase E in the transition zone i Zhang, Joseph R. Smyth, Taknaki Kawazoe, Steven D. Jacobsen, nation bits: Wainin Uka and Shan Olin. (Contents continued on outside back cover) AMMIAY 104(0011)1533–1700 ISSN 0003-004X (print) ISSN 1945-3027 (Online) AMMIAY 104(0012)1701–1872 ISSN 0003-004X (print) ISSN 1945-3027 (Online)

#### **Elements**

*Elements* is an international magazine of mineralogy, petrology, and geochemistry, which was founded in 2005. Published bimonthly, every issue explores a theme of broad and current interest. *Elements* publishes invited peer-reviewed articles for each thematic collection of papers.

The magazine also publishes such regular features as opinion articles, event calendar, short course announcements, awards, conference reports, policy news, as well as news of the 18 participating geoscientific societies.

#### In 2020:

• *Elements* had a combined institutional and individual subscriber base of 15,000.

## **Publications**

#### **Reviews in Mineralogy and Geochemistry**

*Reviews in Mineralogy and Geochemistry* (RiMG) is a series of multi-authored, soft-bound volumes containing concise reviews of the literature and advances in theoretical and/or applied mineralogy, crystallography, petrology, and geochemistry. Volumes are used for self-study, research, or as textbooks for graduate-level courses. The series is jointly published by MSA and the Geochemical Society.

#### In 2020:

 RiMG Volume 86: Triple Oxygen Isotope Geochemisty (Ilya Bindeman and Andreas Pack, Eds.) was published.







#### Textbooks and Monographs

MSA publishes textbooks and a collection of monographs on a variety of topics. These range from mineralogy and optical mineralogy to crystallography, mineral collections, teaching mineralogy, memoirs of mineralogists and more.

#### In 2020:

 F. Donald Bloss' monographs on crystallography were digitized and made available through MinPubs.org.

## **Communications**

#### MSA-Talk

MSA-Talk is a highly active listserv moderated by the MSA Business Office. Postings include mineralogical questions, jobs, equipment requests, teaching suggestions, upcoming conferences, calls for papers and other similar items.

#### In 2020:

MSA-Talk had 3,500 subscribers.

#### **MSA Website**

The MSA website at www.minsocam.org is the public face of MSA, with information about the organization, publications, grants and awards, governance, membership, and special events.

#### In 2020

 In response to online teaching needs due to pandemic closures at schools, colleges and universities, MSA added the Online Teaching Resources section under Education and Outreach.

#### MSA on Twitter 🔰

MSA's Twitter handle is @MinSocAm

#### In 2020:

 MSA opened its Twitter account in May with the support of Council. The account is moderated by MSA Social Media Liaison, Dr. Andrea Koziol of the University of Dayton. The Twitter account has 459 Followers and follows 12 other accounts.

#### MSA-Announce

MSA-Announce is a monthly e-newsletter sent to MSA members when a new volume of *American Mineralogist* is available online.

MSA-Announce also includes information about new publications available through MSA, deadlines for awards and grants, and upcoming events and conferences.

#### MSA on Facebook

MSA's Facebook (FB) page and group are also moderated by Andrea Koziol.

#### In 2020:

- MSA's FB group had 49,537 members.
- MSA's FB page had 2,981 Likes and 3,444 total Followers.

#### MSA on YouTube

MSA's YouTube Channel features videos on a range of topics in mineralogy, petrology, and geochemistry.

#### In 2020:

 MSA customized its YouTube Channel and featured videos from Minerals Day and from the MSA Centennial Symposium in 2019.



## **Individual Contributors**

Many members contribute to MSA by including a donation with their annual dues and/or by responding to special appeals. Depending on the wishes of the member, the money is deposited with the principal of the MSA Endowment, the J. Alexander Speer Outreach Fund, MSA Mineralogy/Petrology Fund, J. B. Thompson Fund, Edward H. Kraus Crystallographic Research Fund, F. Donald Bloss Fund, or General Operating Funds.

The income of these Funds is used to support MSA's research grants in crystallography, mineralogy, and petrology; the *MSA* Undergraduate Prizes; the Mineralogical Society of America Award; the Distinguished Public Service Award, the Dana Medal, the Roebling Medal; the website, and the Distinguished Lecturer program.

Here we want to extend our gratitude to the 490 MSA Members who contributed a total of \$53,064.00 to MSA between 07/01/2019 and 06/30/2020.

## Institutional and Corporate Contributors

MSA would like to thank those institutional and corporate donors who supported the organization in 2020. These organizations included:

#### **Gemological Institute of America**

**Excalibur Mineral Corporation** 

#### **Vulcan Materials Company**

#### **Bruker AXS**

MSA also received support for the Triple Oxygen Isotope Geochemistry Short Course held virtually on December 18, and the accompanying *Reviews in Mineralogy & Geochemistry* Volume 86. These generous sponsors included:

#### **Geochemical Society**

Picarro

Swagelok

#### **Thermo Fisher**

## **In Memoriam**

Irmgard Abs-Wurmbach - Member

Alfred Anderson – Senior Member

F. Donald Bloss – Senior Fellow

Alden Carpenter – Senior Member

**Richard Dietrich – Senior Fellow** 

Mark Feinglos – Member

**Tomas Feininger – Life Fellow** 

**Claren Frazier – Senior Member** 

Volker Goebel – Member

**R. Kirkpatrick - Fellow** 

**Anthony Lecheminant - Senior Member** 

Hideo Minato – Senior Member

Antonio Arribas Moreno – Senior Member

**Edward Olsen – Fellow** 

James Papike—Life Fellow

Zell Peterman – Senior Fellow

**Cecil Schneer - Life Fellow** 

Peter Susse –Life Member



## **Contact Us**

#### **Business Address**

MSA headquarters is located approximately five miles from Dulles International Airport. In addition to MSA's staff, the office is also headquarters for The Clay Minerals Society. The mailing address is:

Mineralogical Society of America 3635 Concorde Parkway, Suite 500 Chantilly, VA 20151-1110 Telephone: +1 (703) 652-9950 Fax: +1 (703) 652-9951 Email: business@minsocam.org Website: www.minsocam.org

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