



to promote, support, protect and expand the collection of mineral specimens and to further the recognition of the scientific, economic and aesthetic value of minerals and collecting mineral specimens.

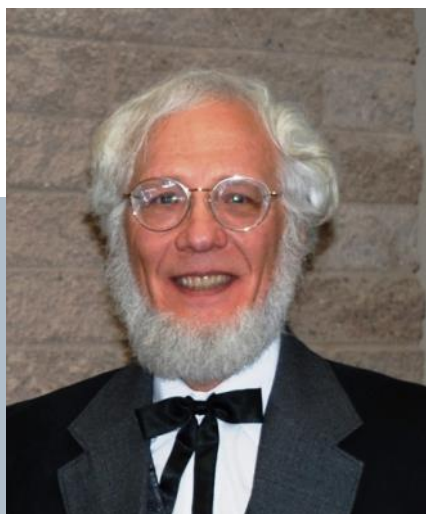
BULLETIN OF FRIENDS OF MINERALOGY

Volume 52 No. 1 ISSN 2471-7932

March 2022

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President's Message By Mark Jacobson

It is with great joy that I get to prepare this letter to our membership about our FM National board meeting and later Tucson Gem and Mineral Show® symposium. First off the Friday, February 11, 2022 board meeting was a pleasant and extremely cooperative meeting and a great success which is owed to the efforts of many people. Everyone participated as representatives dedicated to mineralogy and its educational dissemination and gave me insight into the ideal I try to emulate.

My appreciation of who helped with these successes follows. Bill Besse offered us his meeting place at Jewell Tunnel Imports in a spacious, safe and airy tent, use of his internet for the first ever combined in-person and remote-virtual meeting, and television screen for viewing. With 20 possible directors, we had 19 attend, which is possibly a historical record. The directors are much appreciated for their engagement, providing ideas and agenda items so we can address your chapter and mineralogical interests.

The zoom license, meeting registration, and monitoring the remote speakers to insure they can see and hear during the meeting was provided by the FMVA chapter with Thomas Hale and Alex Venske actively involved; we were able to take advantage of their excellent skill set in using the zoom application. I still have much to learn from them. FM National will be reimbursing them for the cost of license use but their hands-on help was critical to this meeting's success. Erin Delventhal updated the FM National Facebook and Webpage so that we had multiple methods of keeping the FM board and the membership informed of our plans. I am also glad that both the New Jersey (Ryan Klockner) and Mississippi Valley (Mark Sherwood) Chapters empowered a chapter member to represent them at the meeting. Due to an unexpected emergency and its associated uncertainty, Matt McGill temporarily functioned as our meeting secretary, documenting our motions, decisions taken, results of elections, and recognitions provided to members, directors, and awardees. His approved meeting minutes are within this newsletter.

I also appreciated the many directors and others who have offered to be members of committees that will guide our future events and decisions. These committees with their members will soon be shown on our

(Continued on page 3)

NATIONAL OFFICERS

PRESIDENT: Mark Jacobson; markivanjacobson@gmail.com

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CHAPTER REPRESENTATIVES (ALSO BOARD MEMBERS)

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(Continued from page 1)

website. Alexander Schauss, our pre-meeting Vice-President, was quite busy with soliciting and coordinating judges for magazine articles and educational case judging. Great award decisions were made from his efforts. With the addition of the Canadian Mineralogist to our magazine award group we should bring more attention to their great papers.

From this meeting I have recognized several technical shortcomings which the next meeting will fix – sound volume, speaker microphones, location of the screen, wireless microphones, and seating arrangement to enhance both sound and visuals. This is new territory for all of us.

This success was followed by an even more difficult effort to achieve success at the restarted FM National mineral symposium at the Tucson Gem and Mineral Show® on February 12, 2022. For the first time this was a combined remote – virtual and in-person presentation symposium. Such an effort required significant changes and additions in electronic equipment and also the skill sets of the symposium organizers (especially me). This also required a team of people to achieve. Erin Delventhal, Thomas Hale and Alex Venske set up a pre-meeting zoom registration webpage on the FM National website. FMVA once again allowed us to use their zoom license and access credentials. The meeting was advertised on Facebook and our FM Website. The meeting program and abstract booklet was designed by Erin Delventhal and printed in Tucson by Quikcopy. Advertising by the Mineralogical Society of America via J. Alex Speer resulted in many members registering to listen to our presentations remotely. The combined attendance was meaningful. The symposium averaged 50 viewers per lecture, 30 remote and 20 in-person. Imagine the increased attendance without covid and with advertising in a show program booklet.

I am excited about next year's symposium with what I have learned from this one. I am very appreciative of the speakers who spent quite a lot of time to prepare their talks. It is a mistake to think that a 30 minute technical presentation can be put together without weeks of effort. Our presenters were experts in their subject areas from, literally, across the world.

The Tucson Gem and Mineral Show® guided by Pat McClain as a co-sponsor provided the meeting room and all the audio-visual equipment, leased from Arizona Cine Equipment (ACE) Company. The ACE company provided two equipment experts, Lenny Ostros and Michael Sallard, to do setup and insured that the equipment worked, as well as trained me in the use of their equipment – audio sound and volume, computer, two wireless microphones, video projector, cables and how they all interacted. To monitor the remote viewers, access, sound, and visuals Alex Venske worked on a second computer for the majority of the meeting with the new at-large FM Director Markus Raschke also helping out. Erin Delventhal with no advance warning created a screen image for letting attendees know we will resume after lunch. The Mineralogical Society of America (publishers of the *American Mineralogist* and an affiliated FM organization) provided many speakers and many of their members attended the symposium. Their co-sponsorship added much to its success.

We had three remote speakers – Daniel Harlov (Potsdam), Evan Smith, (New York City) and Nicolas Hebert (Perth); their presentations all worked well. I truly believe that remote speakers to a live audience will have great attraction and advantages in the future. From combining both remote and in-person speakers, we have recognized some improvements we can do next year for an even smoother symposium.

Once again, thank you all for the numerous efforts this past year. Our joint, collaborative achievements are impressive. We'll do even better next year.

Mark Ivan Jacobson
February 2022

**FM National Annual Board Business Meeting
Tucson: La Fuente Tent + Zoom
Friday, February 11, 2022
09:00 MT - 10:24 MT**

Attending in person: Mark Jacobson, Alex Schauss, Alex Venzke, Matt McGill, William Besse, Virgil Lueth, Erin Delventhal, Alfredo Petrov, Bill Stephens, Jessica Robertson, Randy Marsh.

Attending remotely via Zoom: Don Buchanan, Mark Sherwood, Thomas Hale, Bruce Bridenbecker, Toby Seim, Linda Smith, Ryan Klockner, Jeanine Mielecki.

President Mark Jacobson called the meeting to order at approximately 09:05 AM MT and declared a quorum present.

1) Mark Jacobson asked for a motion to approve, or revise the agenda for the meeting. Alexander Schaus made the motion to approve the agenda unrevised. Erin Delventhal seconded the motion and it was unanimously approved.

Agenda, as proposed for the FM National board meeting February 11, 2022, Tucson, AZ and emailed to all participants prior to the meeting, both virtual (Zoom) and in-person is shown below:

Action items (decisions to make)

1. *Confirm or revise and approve the agenda for the meeting (President)*
 2. *Announce the awardee's for the best article of the year 2021 in the Mineralogical Record, Rocks & Minerals, and Mineral News (Vice – President).*
 3. *Announce the results of the FM National election for the four at-large Directors (Secretary)*
 4. *Reconfirm or revise the FM Nominating committee for at-large delegates needed (Will need a motion and a second)*
 5. *Thank Virgil Lueth for his years of service to FM (President).*
 6. *Treasurer's report on fiscal status of the National*
 7. *Re-elect/elect the four members of the executive board as needed (Will need a motion and a second)*
 8. *A motion to add the Canadian Mineralogist to the awardees for best article of the year (Motion proposed by Alex Schauss, a second will be needed)*
 9. *Possibly suspend for 2022 the chapters forwarding dues to National with a statement of the number of total paid members (not just money), confirm as annual payment and when it is due. Without a motion, national dues for 2022 will be expected. Dues (to suspend dues for 2022 will need a motion, and a second).*
 10. *FM National symposium expenses for printing abstract booklet (22 booklets at \$10 each – 11 booklets for speakers – two of them mailed, one for Erin and MIJ and 10 to handout free to first come at the symposium. (Mark Jacobson has proposed this motion and needs a second)*
 11. *Formalize a process to provide the free advertising updates to Rocks & Minerals, Mineralogical Record and Mineral News. (Needs a formal motion with specifics and a second]*
 12. *Recommend, approve and confirm members of the Symposium funding committee.*
- Form a committee mostly of chapter representatives (someone approved by the chapter they represent) with at least one at-large board member to revise the FM National operating regulations. The primary issue is creating an acceptable method to the chapters of executing fiscal audits. The second priority is revising the operating regulations to reflect our actual work processes. The recommended by the committee revision should be ready for submittal for board approval by July 2022. Operating regulations that none of the Chapters or National want to do, or will do is useless. As a completely voluntary,*

1. *unpaid organization, our operating regulations should reflect what we as an organization WANT to do. Complete consensus for this is quite important and should be driven/guided by the chapters not national. needed (Motion proposed by President and will need a second)*

2. *Form a strategic vision committee to create a five-year strategic plan for the organization. This document would provide goals, objectives, and actions FM would like to take and would aid the board in creating a streamlined vision that the chapters and members can look to for their decision making. It would also assist future members and leadership in determining the health of the organization and improve our recognition with outside agencies and nonprofits. (This needs a motion, a second and a core group to volunteer to be the committee)*

3. *Form a committee to investigate with each State Geology licensing Board and take steps to verify or insure that the FM National and therefore Chapters are pre-approved for continuing education units (CEU's or CE's) depending upon the specific State Board Rules for those states having state licensure. The purpose being to encourage licensed professionals practicing in the area of minerals, mining and related industries to participate in the organization. (This needs a motion, a second, and committee volunteers).*

4. *To coordinate at the National level and offer to the public at large, free online seminars featuring speakers with topics related to field collecting, field trips/specific sites, and collecting safety. [this motion to be rephrased into an actionable item and seconded]*

Form a committee composed of either board members or people nominated by chapters to make a recommendation on a new or revised logo. This committee should have a decision to recommend to the board no later than 6 months after the February meeting. needed (Will need a motion and a second).

2) Alex Schauss (VP) to announce the awardees for the best article of the year 2021 in the Mineralogical Record, Rocks & Minerals, and Minerals News.

3) Jessica Robertson to announce the results of the election for board members.

4) Reconfirm/revise the FM nominating committee for at-large delegates.

5) Recognition of service to Virgil Lueth for his years of service to FM.

6) Bruce Bridenbecker (Treasurer) to review the fiscal status of FM National.

7) Re-confirm/elect the four members of the executive board as needed.

8) Alex Schauss' motion to add *Canadian Mineralogist* to the awardees for article of the year.

9) Review status of 2022 membership dues.

10) Mark Jacobson proposed that FM National pay the symposium expenses for printing abstract booklet (22 booklets at \$10 each – 11 booklets for speakers – two of them mailed, one for Erin and MIJ and 10 to handout free to first come at the symposium.

11) Formalize process for advertisement updates for Mineralogical Record, Rocks & Minerals, and Mineral News.

12) Recommend, approve and confirm members of the Symposium funding committee.

13) Mark Jacobson's motion to form a committee of chapter representatives to revise FM national operating regulations, specifically concerning fiscal audits and operating regulations to reflect actual work processes, to be submitted to the board for approval by July 2022.

14) Thomas Hale to make a motion to create a strategic vision committee to create a five-year plan for the organization.

15) Bill Stephen's motion to form a committee to investigate state geology licensing boards to verify or ensure FM national/chapters are approved as CEUs/CEs (continuing education units) depending on specific state rules/regulations.

16) Bill Stephen's motion to coordinate at the national level seminars with speakers/topics related to field collecting, field trips, collecting safety.

17) Mark Jacobson's motion to establish a committee to develop a recommendation on a new or revised logo, specifically as an alternative to the previously submitted proposal, to be presented to the board no later than six months from the February 2022 meeting.

Actions taken:

2) Alexander Schauss announced the awardees for best article of the year 2021:

The Mineralogical Record: Evan A. Jones, Peter M.K. Megaw. The Milpillas mine, Cuitaca, Sonora, Mexico. Volume 5, Issue 5.

Rocks & Minerals: Robert Cook. Gold-associated minerals from the collector's perspective. Volume 96, Issue 8.

Mineral News: Vivien Gornitz. The world of minerals: The romance of emeralds - part 1 and 2. Volume 37, Issue 3 & 4.

3) Jessica Robertson announced the results of the FM national election in which Erin Delventhal, Mark Jacobson, Linda Smith, and Markus Raschke all were elected/or re-elected to the board of directors.

4) Mark Jacobson brought a motion to revise the FM nominating committee for at-large delegates to Alfredo Petrov, Alex Schauss, and Erin Delventhal. Alex Venzke seconded. The motion passed unanimously.

5) Mark Jacobson thanked Virgil Lueth on behalf of the Friends of Mineralogy organization for his many years of service and presented him with a certificate of recognition of his contributions.

6) Bruce Bridenbecker (Treasurer) presented the annual fiscal report for FM national to the board. It was established that Bruce would provide fiscal documentation of the National's finances for 2021 or 2020 to Toby Seim (PNW chapter) for an internal audit review. Mark Jacobson made a motion to accept the report and Erin Delventhal seconded. The motion passed unanimously.

7) Alexander Schauss made a motion for the executive officers as follows: Mark Jacobson was re-elected as FM national president (continuing current term), Erin Delventhal as Vice President (first term), Linda Smith as Secretary (to begin additional term), Bruce Bridenbecker as Treasurer (continuing current term). Thomas Hale seconded. The motion passed unanimously.

8) Alex Schauss made a motion to add the Canadian Mineralogist to the list of awardees for best article of the year. Erin Delventhal seconded. The motion passed unanimously.

9) The board discussed 2022 membership dues and came to a consensus that dues would not be suspended for the 2022 calendar year. Mark Jacobson made a new motion to require each chapter to provide the total number of voting members and dollars collected each year to the FM national treasurer and the total number of voting members *only* to the FM national President and Secretary. Randy Marsh seconded. The motion passed unanimously. There was discussion around creating an intake form to facilitate easy submission of this information on a yearly basis.

10) Mark Jacobson made a motion to request reimbursement of \$220 for costs associated with the printing of booklets for the FM National Symposium. William Besse seconded. The motion passed unanimously.

11) There was discussion around advertisement updates for Mineralogical Record, Rocks & Minerals, and Mineral News. Erin Delventhal stated that the outreach committee has been working on this topic already, and made a motion for advertisement updates to be handled by the outreach committee moving forward. Thomas Hale seconded. The motion passed unanimously.

12) Mark Jacobson appointed Erin Delventhal, Bruce Bridenbecker, and Alex Schauss to the Symposium Funding Committee.

13) Mark Jacobson brought a motion to form a committee, composed of mostly chapter representatives, to revise the FM national operating regulations, specifically concerning internal audit requirements and aligning operating procedures to match actual processes to present to the board by July 2022. Chapters may appoint or volunteer members to the committee. Erin Delventhal seconded. The motion passed unanimously.

14) Thomas Hale made a motion to form a strategic vision committee to create a five-year strategic plan for the organization. This plan would provide goals, objectives, and actions FM would like to take and would aid the board in creating a streamlined vision that the chapters and members can look to for their decision making. It would also assist future members and leadership in determining the health of the organization and improve our recognition with outside agencies and nonprofits. Thomas volunteered to chair and recruit members for this committee. William Besse and Alex Schauss both seconded. The motion passed unanimously.

15) Bill Stephens made a motion to form a committee to investigate with each State Geology licensing Board and take steps to verify or ensure that the FM National and therefore Chapters are pre-approved for continuing education units (CEU's or CE's) depending upon the specific State Board Rules for those states having state licensure. The purpose being to encourage licensed professionals practicing in the area of minerals, mining and related industries to participate in the organization. Bill volunteered to chair and recruit for this committee. Alex Schauss seconded. The motion passed unanimously.

16) There was discussion around coordinating seminars/speakers at a national level. It was determined that there is already groundwork done in this area, so Mark Jacobson appointed Bill Stephens who volunteered to form an exploratory committee to develop the next steps for this topic. Ryan Klockner volunteered to assist.

17) Mark Jacobson made a motion to establish a committee to develop a recommendation on a new or revised logo, specifically as an alternative to the previously submitted proposal to address various objections, to be presented to the board no later than six months from the February 2022 meeting. Erin Delventhal seconded. The motion passed unanimously. William Besse will chair the committee and fill as necessary.

18) Alex Schauss made a motion to set the date of the next annual business meeting to February 10, 2023, with time/location to be determined. Mark Jacobson seconded. The motion passed unanimously.

With the meeting agenda completed, at approximately 10:24 MT, Virgil Lueth made a motion to adjourn the meeting. William Besse seconded. The motion passed unanimously.

-Matt McGill (acting Secretary)

*Thank
You*

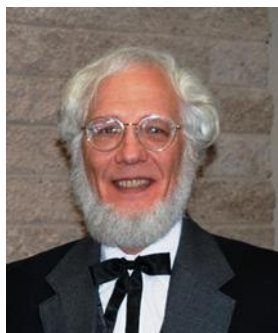
After a successful joint Friends of Mineralogy -Mineralogical Society of America-Tucson Gem and Mineral Show® Mineral Symposium in Tucson on February 2022, I, on behalf of our organizations, would like to thank Johan Maertens, Cincinnati, Ohio for his donation to the symposium event.

Editor's Note:

Thank you to the contributors of all the articles and pictures for this issue.



National Officers 2022 Voting Results



Mark Jacobson, FM President



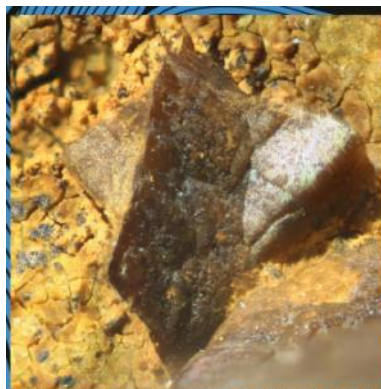
Erin Delventhal, FM Vice President

Linda Smith, Secretary

Bruce Bridenbecker, Treasurer

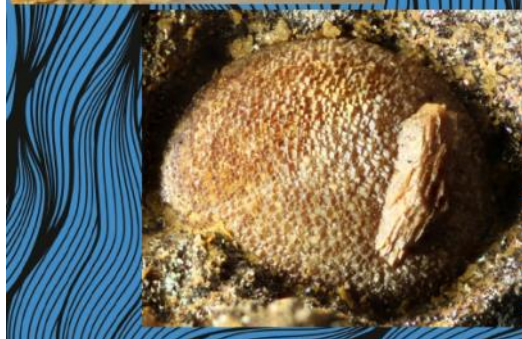
New Board members (expire in February, 2025 :

Erin Delventhal
Mark Jacobson
Linda Smith
Markus Raschke



siderite

From Big Cliff, Clackamas
County, Oregon



**Two major forms (rhombs
and hemispheres)
and combinations of both**

Photos copyright by Beth Heesacker

Best of the Best

During the 2022 Annual Business Meeting of the Board of Directors of Friends of Mineralogy, on February 11, 2022, Alexander Schauss the Vice President of Friends of Mineralogy reported to the board the winners of the best mineralogical article awards published in 2021 in *The Mineralogical Record*, *Rocks & Minerals*, and *Mineral News*, along with the winners of the best non-institutional and institutional education exhibits displayed during the 2022 Tucson Gem and Mineral Society Show, held at the Tucson Convention Center. The awards in both categories were presented to the winners by Alex Schauss during the TGMS Awards Ceremony, held on Saturday, February 12, 2022.

Best Institutional Educational Display Award:



The Sherman Dugan Museum of Geology, San Juan College, Farmington, New Mexico, for "Minerals used as paint Pigments."

Best Non-Institutional Educational Display Award:



John Rakovan, PhD, for "Apatite: The collection of John Rakovan."

Winners of Friends of Mineralogy's 2021 Best Mineral Article Awards



The Mineralogical Record:

Evan A. Jones and Peter M.K. Megaw, for "The Milpillas mine, Cuitaca, Sonora, Mexico." 52(5), 1493-626.

Rocks & Minerals:

Robert Cook, PhD., for "Gold-associated mineral from the collector's perspective." 96(8), 200-237.

Mineral News:

Vivien Gornitz, for "The world of minerals: The romance of emeralds" - part 1 and 2. 37(3 & 4)

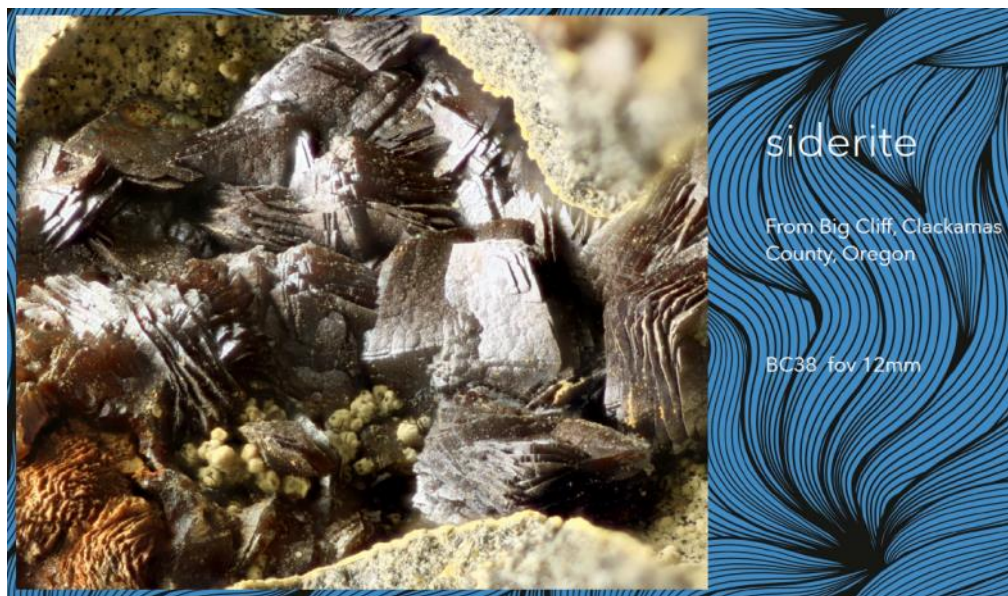
Best Non-Institutional Educational Exhibit at the Denver Gem & Mineral Show

The winner of the Best Non-Institutional Educational Exhibit at the Denver Gem & Mineral Show was Judy and Ron Knoshaug's display on "Mineral Classifications by [the] American Federation of Mineralogical Societies."



Judy and Ron Knoshaug's non-institutional exhibit on Mineral Classifications by [the] American Federation of Mineralogical Societies.

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Photos copyright by Beth Heesacker

**The 41st  
FM-TGMS-MSA  
Tucson Mineral Symposium**

**"Silicate Minerals"  
Saturday, February 11, 2023  
Tucson Convention Center, Tucson, AZ**

**Call for papers**

The forty-first Mineral Symposium, held in conjunction with the Tucson Gem and Mineral Show®, will take place on Saturday, February 11, 2023. This symposium is co-sponsored by the Tucson Gem and Mineral Society, the Friends of Mineralogy, and the Mineralogical Society of America. As a tie in with the show, the symposium theme is the same as the show theme: **"Silicate Minerals."**

Presentations on silicate minerals that include their descriptive mineralogy, mineralogic structure, paragenesis, classic and new localities, and related subjects are welcome. For clarity, some silicate minerals suitable for presentation include zeolites, micas, diopside, and topaz, besides the expected quartz, feldspars, tourmaline, beryl, and spodumene.

An audience of amateur and professional mineralogists and geologists is expected.

Interested speakers, **both on-site and remote**, should first submit their desired talk title for a presentation length of 25 minutes (or 20 minutes plus 5 minutes for questions). There will be 10 minutes between talks to handle introductions, and computer and sound. There will only be lapel microphones for on-site speaker, so they are not restricted to being behind the podium.

We will acknowledge all submitted presentations. Accepted presentations will need to be followed up with a 200-500 word abstract (single spaced in 12 point font, Word or equivalent format) with one graphic or photograph associated with the abstract desired by the author, a 5 sentence speaker biography and a photographic headshot of the speaker. All abstracts and biographies will be combined for creation into an abstract-program booklet. The speaker will also provide their preferred email address and contact phone number.

Presenters will provide the digital talk in PowerPoint or PDF format either on a flash drive or a downloadable internet site. Presenters will not be permitted to use their own computers except if their talk is remote. The symposium computer is a PC using a Microsoft operating system. In addition, these talks may be recorded if all speakers agree to recording. **The presentations will be simultaneously provided to an in-person audience and broadcast to a logged-in virtual audience using the Zoom application.**

Please send submitted titles (and later abstracts and speaker biographies) by one of the provided three methods:

By mail: Mark Ivan Jacobson 1714 S. Clarkson St., Denver, CO 80210

By email: [friendsofmineralogy@gmail.com](mailto:friendsofmineralogy@gmail.com)

By the form on the Friends of Mineralogy website at [www.friendsofmineralogy.org/call-for-papers/](http://www.friendsofmineralogy.org/call-for-papers/)

Presentation titles must be submitted **prior to July 31, 2022.**

Abstracts, presentation images, speaker biographies, and photographic headshots must be submitted **prior to September 1, 2022.**



## Outreach Committee - newsletter update March 2022

The Friends of Mineralogy Outreach Committee is continuing in efforts to increase awareness of FM, develop relationships between National and its chapters and affiliates, and reinvigorate FM's role in the mineral community. We are looking forward to several ongoing projects in the coming year:

- Begin outreach to affiliate organizations to create contact points, establish points for collaboration and support, and re-establish relationships
- Continue to develop relationships and communication between FM National and FM chapters
- Continue to develop FM presence on social media through educational posts and promotion of FM activities
- Identify possible venues for additional outreach initiatives

### National Calendar of Events

We encourage you to start making use of the FM National Calendar of Events, which can be found here: <https://www.friendsofmineralogy.org/calendar-of-events/>

The calendar is designed to aggregate all mineral-related events happening across the country in one easy-to-access (and filter!) location. Events include field trips, symposia, educational talks (both live and remote), mineral shows, and more!

Events are not limited to FM Chapters – any organization is welcome to be included. If you would like to ensure your organization's events are being shared on the calendar, please reach out to us at [fmnationaloutreach@gmail.com](mailto:fmnationaloutreach@gmail.com)!

### Social Media Outreach

Social media outreach efforts will continue — in addition to continuing our #MineralMonday series, we have led off the year with a new series of educational posts introducing elements of crystallography by discussing habits of quartz crystals.

You can view this content on the following platforms:

**Facebook:** <https://www.facebook.com/FriendsofMineralogy>

**Instagram:** <https://www.instagram.com/friendsofmineralogy/>

Please join us in the **Friends of Mineralogy community group** on Facebook:

[www.facebook.com/groups/friendsofmineralogycommunity/](https://www.facebook.com/groups/friendsofmineralogycommunity/)

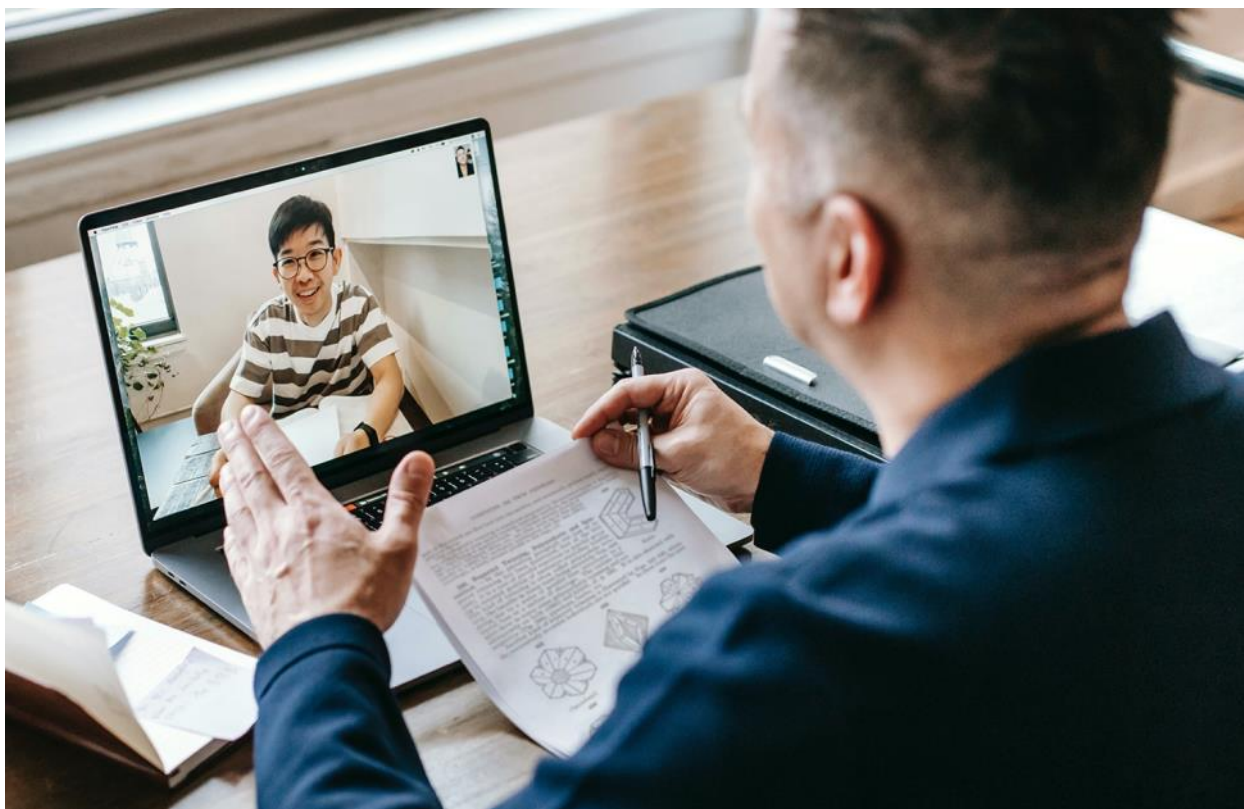
For those not using social media, recent content is also displayed at the bottom of the Friends of Mineralogy website at <https://www.friendsofmineralogy.org/>.

### Friends of Mineralogy Outreach Committee

*Jessica Robertson, Thomas Hale, and Erin Delventhal*

## YMC-Geo365-FM Mentorship Program

**We are delighted to announce a partnership between FM National and the Young Mineral Collectors and Geology365 in introducing the Mentorship Program!**



### The Dilemma

For years, the mineral community has lamented the lack of engagement in younger members – though the growth of the Young Mineral Collectors has demonstrated that there is no lack of young people interested in mineral collecting, the question persists: how do we engage young collectors in the hobby and grow our community?\*

One primary discussion point has been regarding how to bridge the gap between older collectors rooted in traditional mineral organizations and younger collectors who are more actively engaged via social media platforms. Those who have been a part of the mineral collecting community for any amount of time will recognize that one of the greatest benefits is the human connections created through participation. It's not just the minerals – it's the people! However, many young collectors face hurdles in meeting other more experienced collectors. Though the conversation has many nuances, in short: for younger collectors, working hours and commuting distances are predominant obstacles to in-person meeting attendance. If we seek to engage with today's younger collectors, we must meet them where they are.

(\*Polling and discussion within YMC and the mindat.org community group (both on Facebook) revealed several points of interest regarding this eternal question: for full details, see Matt McGill (2020) Young Mineral Collectors and the Future of the Mineral Collecting Hobby, *Rocks & Minerals*, 95:6, 537-547, DOI: [10.1080/00357529.2020.1791628](https://doi.org/10.1080/00357529.2020.1791628)).

### The Solution

**The Mentorship Program** was envisioned and developed as a solution to this dilemma. The online platform works to facilitate relationships and collaborations between more experienced and established members of the mineral community (mentors) and younger/newer/less experienced members (mentees). Each user is asked to give some data about themselves (their areas of interest/expertise, availability and preferred contact method, anticipated goals of the mentorship, etc.). The platform takes this data and creates matches between mentors and mentees based on shared interests, then provides the capability to start a conversation. For example: if a mentee indicated they were interested in learning more about collecting thumbnail-sized specimens, the system will match them to available mentors who have indicated they have experience and knowledge to share regarding collecting thumbnails. The principal operation of the platform is simply to *create the connection* - not every suggested pairing will result in a new lifelong friendship (though some will!), and what the mentors and mentees do with that introduction remains largely within their control. The platform includes some systematic check-ins to try to provide some support for the relationship, but these are fairly minimal and likely would stay so in order to allow friendships and collaborations to have room to grow and develop naturally.

### Becoming a Mentor

**So how can you help?** The Mentorship Program is now up and running, and many potential mentees have already signed up. Now we need mentors! FM aims to assist in the development of this program primarily by encouraging access to experienced collectors to volunteer as mentors – though you can always be a mentee too! FM members host an incredible depth and diversity of knowledge – it is time to step up and share your knowledge with an interested and engaged early collector!

**Current** mentee requests for mentors include the follow topics:

|                                          |                                           |
|------------------------------------------|-------------------------------------------|
| Collecting on a budget                   | Carbonates, Nitrates, Borates             |
| Silicates                                | Thumbnails                                |
| Collection refinement                    | Miniatures                                |
| Small Cabinet                            | Specimen aesthetics                       |
| Field Collecting                         | Sulfides                                  |
| Halides                                  | Phosphates, Arsenates, Vanadates          |
| Gem minerals                             | Mineral cleaning/preparation              |
| Becoming a dealer/minerals as a business | Technical mineral analysis/identification |
| Sulfates, Chromates, Selenates           | Pegmatite minerals                        |
| Show displays (non-competitive)          | Competitive displays                      |
| Mineral Photography                      | Oxides & Hydroxides                       |
| Rare minerals                            | Large Cabinet                             |
| Lapidary                                 | Cataloging/Labeling                       |
| Micromounting                            | Mineral books/book collecting             |
| Writing articles for publication         | Technical Mineralogy                      |
| Geochemistry                             | Native Elements                           |
| Organic Minerals                         | Inclusions                                |
| Micromounts                              | Microphotography                          |
| Crystallography                          | Ore minerals                              |

These topics already have registered mentees seeking a mentor, so please jump in if you can give some time to guide a new collector! If you have other areas of expertise, you are still encouraged to join – as the program grows, requests for other areas of knowledge will also grow!

## How to Get Started

Register for a free account on Geology365: <https://www.geology365.com/login/register>

Log-in

Navigate to Mentorships by using the left-hand panel or directly at <https://www.geology365.com/mentorships>

Select "I Want to BE a Mentor"

Fill out your mentor profile

Hit Submit and wait for the platform to connect

# ROCKS & MINERALS

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March 15, 2022

Mark Ivan Jacobson, President  
Friends of Mineralogy  
1714 S. Clarkson Street  
Denver, Colorado 80210

Dear Mark,

Once again I am writing to thank Friends of Mineralogy for honoring *Rocks & Minerals* with an annual Best Paper Award.

We were very pleased to see the labors of author Robert B. Cook rewarded for his excellent article titled "Gold Associated Minerals from the Collector's Perspective," which was published in the May/June 2022 issue (pages 200-236).

The check for \$200 is also appreciated. It will be deposited in the magazine's Color Fund account and will be used to help underwrite color photography in issues throughout the year.

Mention will be made of the award in my Chips from the Quarry column in the May/June issue, and Friends of Mineralogy will be included in our annual list of donors published in next year's March/April issue.

FM's continuing support of *Rocks & Minerals* in this manner is gratefully acknowledged.

With best regards,



Marie Huizing  
Editor-in-Chief

c: R&M Executive Editors: Robert Cook, Carl Francis, John Rakovan  
FM Treasurer Bruce Bridenbecker





Here at Young Mineral Collectors, we have been extremely busy for the past few months! We recently finished displaying in Tucson for the annual Gem and Mineral show and it was a great success. It was our first year setting up at the Westward Look show, and our 4<sup>th</sup> year having displays at the main TGMS show.



#### Tucson Displays 2022

The displays consisted of Apatite Supergroup minerals (TGMS, pictured below), collector spotlight cases (featuring: Jonathan Feign, Jingnan Zhang, Duncan McClure, Christopher Stefano), photography spotlight case (featuring the work of Louis Verschuren, pictured above), and our members favorite specimens in their collection (WWL). We can't thank our members enough for participating and trusting us with their prized specimens and we will continue to promote and support our members however possible.



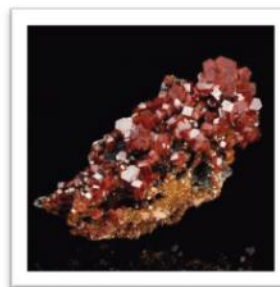
#### New Projects

In recent months the YMC team has been working on several existing projects and recently we have added some new programs that our members can take advantage of. This includes a **YMC book club** where we read and discuss geology related books, the **YMC/FM/Geology365 Mentorship Program**

(mentioned elsewhere in this newsletter, check it out!), and one of our biggest projects thus far: a mineral collecting **field trip to Morocco** for our members!

#### Morocco Trip 2022

The Morocco 2022 field trip is intended to bring our group members to various mineral collecting localities around Morocco with the assistance and guidance of Tom Praszker. Members will be allowed to collect minerals and bring the specimens home as well, which wouldn't be possible without the help of Tom. This is one of the most exciting initiatives that we have presented since the inception of YMC, and we are very excited to expand the group to incorporate more of these types of activities in the future.



*Photo by Matt McGill*

#### Book Club

Our book club is a geology-based club where we read and discuss books related to earth sciences and minerals. We hope to use this program to increase science communication between our members and for the participants to learn about parts of mineral collecting that they might not be familiar with, along with having fun and being able to ask questions in a friendly environment.

#### Mentorship Program

Partnering with Geology365 and Friends of Mineralogy, we are happy to announce the YMC Mentorship program! This program will bring together collectors of all ages and backgrounds with the goal of spreading knowledge and creating an inclusive environment in our community. If you're interested in being a part of the program head over to [Geology365.com](https://www.geology365.com) and make an account for yourself!

## Thank you, Johan Maertens for supplying this important SAFETY information

### **Mine Safety and Health Hazards Awareness**

Trainer Scott Kell and Craig Kramer from Ohio, compiled recordings of Mine Safety and Health Hazards Awareness sessions for mineral, fossil or rock specimen collectors and posted them on YouTube (a Google LLC service).

Surface mines are an environment to respect, because there are genuine hazards there. These are hazards we don't typically, experience in other activities in our life. When you know those hazards and you know how to avoid them, all of us can collect safely. When you abide by the rules, all the risks that are inherent in collecting are very manageable.

This isn't particularly about free roaming on public lands, stream beds, road cuts or canyons, yet what you'll learn can have apply to other collecting environments.

Scott tells us that when we collect in a private surface mine, it is like we are operating on thin ice.

"Behave in such a manner that secures the respect of the of our mine host and helps advance the cause of us being invited back for another year." "We must all consider collecting a privilege." Hopefully the next time your field trip chairperson calls up the mine host, they'll answer "Sure your group does a good job. We trust you and we'll welcome you back there next year."

**It is strongly recommended to watch all of the videos completely.**

**Disclaimer:** The videos help with but do not satisfy Mine Safety and Health Administration (MSHA) training for visitors (e.g., collectors) to surface mines (aka quarry, pit).

### **Mine Safety and Health Hazards Awareness module 1**

[https://www.youtube.com/watch?v=AbzN1E1PY\\_0](https://www.youtube.com/watch?v=AbzN1E1PY_0)

#### **Module 1 Introduction and Overview to Hazard Training**

At the conclusion of Module 1, you should be able to:

1. explain where Hold Harmless Waivers are used.
2. explain hazards associated with railroad and stream cuts.
3. describe when the record year for miner fatalities occurred and when the fatality number first dropped below 20.
4. list four personal limitations that may affect your ability and safety while at a mine.

### **Mine Safety and Health Hazards Awareness Module 2**

<https://www.youtube.com/watch?v=wgTq9t67y5o>

#### **Module 2 Before You Enter a Surface Mine**

At the conclusion of this module, you will be able to:

1. explain the necessary steps to be taken before you enter a surface mine.
2. identify items typically covered in site specific training.
3. distinguish between who can and cannot authorize mine access.
4. describe the process one is expected to follow prior to entering a mine.
5. list four requirements to include in an emergency plan.



**Mine Safety and Health Hazards Awareness Module 3**

<https://www.youtube.com/watch?v=YakIEW79iEQ>

**Module 3 Personal Protective Equipment and Mine Driving Practices**

At the conclusion of this module, you should be able to:

1. compare mandatory personal protective equipment and with desirable PPE to use in a mine.
2. describe when hard hats are to be worn and the correct way to wear one.
3. explain when it is time to replace a hard hat.
4. summarize the proper type of eye protection equipment one must use.
5. list the Federal requirements that unattended mobile equipment, which include collector's vehicles, must follow in a mine.

**Mine Safety and Health Hazards Awareness Module 4**

<https://www.youtube.com/watch?v=wGivmJvKzdo>

**Module 4 Ground Control part 1: High Walls- Structure and Safety**

At the conclusion of this module, you should be able to:

1. with respect to the anatomy of a mine, explain the terms: high wall, blast pile, blast pile toe, bench, and quarry floor.
2. name and describe, as discussed in the training, four types of discontinuities observed in surface mines.
3. name three risk factors that contribute to high wall safety.
4. describe discontinuities found in a surface mine including bedding planes, joints, faults, and fractures.

**Mine Safety and Health Hazards Awareness Module 5**

<https://www.youtube.com/watch?v=NnwAkL8mT30>

**Module 5 Ground Control part 2: High Walls to Benches and Berms**

At the conclusion of this module, you should be able to:

1. identify a back break and explain why it is unsafe.
2. explain the difference between a partially loaded and loaded benches and why one or both are dangerous.
3. identify and describe a trough as related to a blast pile.
4. show where one is permitted to collect when the host has constructed an area isolated by a berm.

**Mine Safety and Health Hazards Awareness Module 6**

<https://www.youtube.com/watch?v=-rQrHYmZHE>

**Module 6 Ground Control: Bench, Boulder Line, and Mobile Equipment Safety**

At the end of this module, you should be able to:

1. explain how close to an edge or back break one is permitted to collect.
2. summarize where one is permitted along a haul road containing berms.
3. describe a spoil pile.
4. compare collecting safety near the edge of a blast pile having a toe versus where the toe has been removed.
5. summarize how a collector should best move across a blast pile.
6. describe a boulder line and identify safe collecting locations in boulder lines.
7. distinguish what are and are not safe practices around mobile mine equipment.

**Mine Safety and Health Hazards Awareness Module 7**

<https://www.youtube.com/watch?v=pEpSqTnCX7M>

**Module 7 Tool Safety**

At the end of this module, you should be able to:

1. describe at least four potential hazards from use of a hammer and chisel while collecting specimens.
2. explain two possible solutions for a mushroomed chisel head.
3. identify six potential hazards from cut off saw use.

**Mine Safety and Health Hazards Awareness Module 8**

<https://www.youtube.com/watch?v=8mm9CdY1umA>

**Module 8 Environmental and Personal Safety**

At the conclusion of this module, you should be able to:

1. categorize lifting techniques for heavy specimens as safe or unsafe.
2. explain blasting safety as it relates to surface mine visitors.
3. list six symptoms of heat exhaustion and describe the first aid for it.
4. explain safe behaviors to follow while in a quarry during severe weather with lightning.

Via FM Midwest Chapter Newsletter 3-4/22

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Photos copyright by Beth
Heesacker



Tucson Travel Log and Report

President's Message
by Bill Stephens, PG

The Tucson Show was amazing, and I'm told it has changed a lot in the last few years. I had not been to Tucson since 1984 and barely remember much, especially since I got really sick afterwards - laid in my cot for a week. I drove up from my master's thesis area (geologic mapping) in Cucurpe, Sonora, Mexico, to see the show given it was only about 100 clicks north of my field area. So, for me, this was not only a stellar adventure, but it was also a little déjà vu.

I should preface my road log by saying the main reason I justified going this year, and not in the past, was that now that I have been elected President of the Friends of Mineralogy Pennsylvania Chapter (FM-PA) and I had submitted and been approved to present a presentation on Pyromorphite from Phoenixville, PA at the annual FM Symposium at the main show, I felt it was important to attend and present in person (at least that's what I told everyone). I also went to buy and be part of the experience. The FM Annual meeting was scheduled for Friday morning and the symposium was held at the convention center on Saturday, the day before the main Tucson Gem & Mineral Show (TGMS) was to end.

I should start by saying I live in the northeastern corner of Maryland. And I drove to Tucson and back! My travel companion for the ride there, Cheryl Neary (past president of EFMLS), lives on Long Island. She took Amtrak down to the station at Aberdeen Maryland, where I picked her up at about 5:45 p.m. on Sunday February 9. I drove straight through the night and all-day Monday and by 7:00 p.m. CT on Monday, we were in Abilene Texas for the night. We got a room and a good steak at the Mesquite Pit in Weatherford, TX.

We took off Tuesday morning running Route 10 all the way except for a short detour to visit Guadalupe National Park (it was great). We did stop on the way to



examine the fossiliferous Permian basin carbonates exposed in many roadcuts along the way in west Texas. We arrived at our lodging about 10 p.m. MT. Pooped but Psyched.

With a good night's rest, we started off at the Mineral City Show only a few blocks from our motel. We spent



Cheryl checking out some Permian limestones along a road cut on I-10 in west Texas few miles east of the I-10/I-20 split.



"Postcard Picture" of El Capitan, Guadalupe Mountains National Park, Northern Chihuahua Desert, Texas.



Amethyst and Citrine Geode "Cathedrals". First thing to greet us inside the first dealer tent we visited. Wowza!



Large Ammolite Ammonites, prices to match. One place in the world produces this gemstone.



One of the best surprises was this case of the last five years of production of wulfenite from the Rowley Mine. The orange-red colored mimetite on the wulfenite windowpanes was exceptional.



When I say prices have jumped, check out the price on this aqua! "45 K"

much of the morning at Mineral City, one of the larger satellite shows. Some of the big-name dealers like Kristalle and Arkenstone had moved from the Main TGMS at the convention center to this show.



We ended the day with an excellent dinner at El Charro's, which became a haunt and I highly recommend it.

We wound up going to another show to get supplies like stands and boxes. I know I spent \$500 in one store. My first big mineral purchase was actually Ammolite from Korite. Wwwwowww! And I brought some back!

Thursday Cheryl had arranged a collecting adventure with her old friend (Bill Gauge). We rallied at our motel and drove down I-19 to Sahuarita (new community) where we took some back roads towards Bill's azurite-malachite claim. We made a stop to inspect some granitic rocks exposed in a dry wash and found some veins of crystallized quartz with as yet to be determined micro minerals.

After that break we continued on our way toward Bill's claim but were thwarted by electronically surveilled gates and "no trespassing" signs that had been recently erected to protect gold mining on the private property. We



Possibly gold-bearing quartz view in granite.



View looking North at recent gold mining activity in the mountains south of Tucson.

decided to return to the show and bid the mountain roads adieu. We did stop to get some drone photos of the scenery.

Thursday afternoon we decided to hit the Kino Show. I recall a bit of a "speed walk" as Cheryl and I split up to divide and conquer. Later that evening we picked Kathy up from the airport and called it quits for the night.

Friday after an early breakfast, I attended the Friends of Mineralogy annual meeting. We actually finished early and covered all the topics we expected to cover with unexpected unity of vision and purpose. I like these guys & gals. [See the following article and minutes] Two committees that I'm chairing are of general interest: (1) The committee to promote FM and its chapters as pre-approved providers of continuing education for

professional geologists for those states that have the PG licensing requirement and the continuing education requirement. Licensed Professional Geologists should be aware that FM is pre-approved as a provider and the symposia are either free or nominal cost. If you are a PG in DE, PA and NC, you can get all 12-plus Continuing Education credits you need every year from the PA chapter and National Symposia. That is a little-known fact. (2) An exploratory committee to develop a portal for clubs to find speakers for specific topics. I'm working with Ryan Klockner on this as he has already developed the speaker profile and presentation catalogue part of the code within his Geology 365. Stay tuned. If we can pull this off, it will be Rad!

I did some more buying Friday- it's such a blur as there is so much to see and remember. Some places were had such gorgeous displays with such high prices all I could do was walk through, take pics on the fly, say "hi do you have a card" and "bye," lol.

Saturday was the 40th Tucson Mineral Symposium followed by the awards banquet both held at the Tucson Convention Center. We had 11 guest speakers give presentations on "Minerals of the Apatite Supergroup and Mineral Fluorescence". Speakers included Daniel Harlov, John Rakovan, Evan Smith, Dr. Peter Megaw (TGMS Show Chairman), Markus Raschke, Ray Grant, Thomas Loomis, Nicolas Hebert, Glenn Waychunas, Madeline Murchland and me. (If you'd like a program, contact me via email) All the talks were great, some were highly technical and some like mine were more lay oriented. What an amazing assemblage of experts (myself excluded of course). The hybrid meeting went pretty well except for a brief interlude getting the last speaker's talk up and running. I managed to slip out and visit with Adam Wright and buy a couple crocoite specimens from him during the short break.

The awards ceremony was held in the adjacent conference room after the symposium. There were quite a few awards, and we said happy birthday to one of the old timers. Nearly all the faces were new to me and I was pretty beat so I'll rely on others to give more details on the awards. I can say having seen a few of the cases, even the junior cases, I was quite impressed. I was also very impressed with the 12 exhibit cases devoted/dedicated to Richard Graeme who was a well-known collector of Bisbee and other Arizona Minerals and had passed away last year. The love that went into those exhibits was a real testament to how well known, respected, and loved he was, and how influential he was in the mineral community. The show competition exhibits remain a model for collectors everywhere.

Sunday we did the last of our shopping and visiting at various shows. I found some very nice higher end vanadinite cabinet specimens for my collection and resale. Cheryl, Kathy, and I had dinner that evening with friends of Cheryl's who had retired from NY to Tucson. We had a wonderful dinner at an Italian restaurant then went back and started packing. I dropped Cheryl and Kathy off at the airport and turned my nose toward Texas and ultimately home after dropping them off about 8:30 am MT.

Anyone interested in seeing more pictures and hearing more about Tucson can join me for my Zoom presentation Monday April 4, 2022 at 7:30 PM EST. Thank you for your attention and happy hunting!

Bill Stephens, PG
President, FM-PA
1st VP and Region 4 Regional VP, EFMLS

Via Pennsylvania Newsletter, Spring 2022

Affiliate Reports



Mineralogical Record

Tucson, Arizona
mineralogicalrecord.com

With the 2022 Tucson Show in the books, *The Mineralogical Record* staff is hard at work preparing our lineup of new articles for the rest of the year. Our first issue of the year, containing the massive Mogok article, was released at the Tucson Show and has been very popular. By the time you read this, the new Eureka supplement should be on its way to readers along with the March-April issue with a selection of interesting articles. And we've got a some other really exciting projects under way; stay tuned for some exciting announcements later this year.

However, we're always looking for new articles, so if you have an idea for something you'd like to write up, please get in contact with us; we'd love to hear your proposals and help you bring them to fruition. We remain very interested in securing articles on important mineral localities, but we also welcome articles on prominent collectors and their collections, on the history of mineralogy and mineral collecting, on interesting mineral properties, and on museum collections.

Updates and improvements to our website (www.mineralogicalrecord.com) continue to be made regularly. We are finally able to offer a digital subscription to *The Mineralogical Record*, which you can sign up for on our website. Digital subscriptions are available by themselves, or as an add-on to your paper subscription. Digital subscriptions offer numerous advantages over the paper version of the magazine. Besides the lower cost and shelf-space savings, the digital version also goes to subscribers worldwide at the same time that the paper magazine is mailed (and no worries about lost or damaged copies), letting you see the next issue well before the paper subscribers do. Additionally, the digital magazine can be enlarged on the screen for easy reading, and it is searchable on either your computer or your mobile device. Also, we now offer automatic subscription renewal so you never have to worry about forgetting to renew and missing an issue.



Mineral News

The Mineral Collector's Newsletter

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Since the last update, *Mineral News* has continued to offer timely articles and historical research pieces for mineral collectors. In the January issue, Frank Dudas and Nilanjan Chatterjee completed their series on the obscure Jetty Mine in Anaconda, Montana, this time focusing on the antimony-bearing oxide minerals found there, including descriptions, chemistry and color images of uncommon species such as kermesite, plumbojarosite and a likely oxy-plumboromeite sample. In addition to microprobe data, SEM images further highlight the unusual nature of the Jetty Mine deposit and its alteration products.

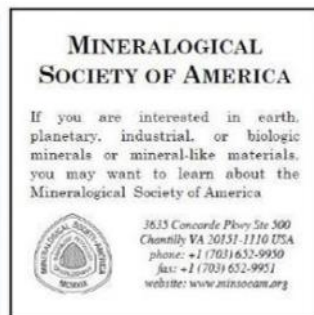
Contributing editor Bob Werner offered his recounting of the Harding Mine in Taos Co., New Mexico, first collecting there in 1958 as a student at the New Mexico Institute of Mining and Technology. His contact with Arthur Montgomery, who owned the property at the time, enabled him to go underground and harvest interesting material from the mine. In the same issue, Robert Fox offered a colorful snapshot of collecting mining-related postcards, Tony Nikischer updated the mining operations at the Morila Mine complex in the Siskasso Region of Mali, and Bill Shelton continued his series on collecting mineral species by their major elements, this time discussing selenium and tellurium.

In the February issue, Tom Rosemeyer recounted the discovery and recovery of a monster, 1120 pound float copper piece in Keweenaw County, Michigan, nicely illustrated throughout. Vivien Gornitz continued her series on "The World of Minerals", offering excellent information on what diamonds teach us about the earth in her Diamond Revelations piece. Dr. Gornitz was the winner of *Mineral News*' Best Article award for 2021, presented by FM at Tucson this year.

Montana expert Frank Dudas, again with Nilanjan Chatterjee, presented a detailed look at REE (Rare Earth Element) minerals from Sheep Creek, Montana. Color images, microprobe data and references abound in their latest offering, and it will continue in the March issue as well. And finally, editor Tony Nikischer recapped the Empire Exhibition of South Africa by the Chamber of Mines in Johannesburg in 1936. The article was instigated by the discovery of a rare pamphlet that provided details and a few images of the Transvaal Chamber of Mines pavilion at the exhibit that included a full-sized stamp mill, a major diamond exhibit by DeBeers Consolidated Mining, and a 70 foot "Pillar of Gold" that represented gold output from the Witwatersrand from 1933 to 1935.

Mineral News is published monthly and is a consistent supporter of FM. Subscriptions to the periodical are \$35.00 per year in the U.S.

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## The Mineralogical Society of America: Events and Resources for Collectors

### OVERVIEW

The Mineralogical Society of America (MSA) was founded in 1919 to advance mineralogy, crystallography, geochemistry, petrology, and promote 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 raises the

scientific literacy of society on issues involving mineralogy in the widest sense. MSA encourages the preservation of mineral collections, displays, mineral localities, type minerals, and scientific data. MSA publishes the journal *American Mineralogist*, *Elements* magazine, the book series *Reviews in Mineralogy & Geochemistry*, textbooks, and monographs. Anyone with an interest in mineralogy/petrology is eligible to join MSA. Information about membership is on the MSA home page: [www.minsocam.org](http://www.minsocam.org)

### EVENTS

#### Minerals Day

This year will be the third annual Minerals Day (October 10, 2022, the Monday of the American Geosciences Institute's Earth Science Week). The goal of Minerals Day is to highlight the importance of mineralogy and petrology to students and teachers, the collector community, and the general public. As the International Mineralogical Association (IMA) has declared 2022 as the Year of Mineralogy, that will also be the Minerals Day theme. On Minerals Day itself, and during the rest of Earth Science Week, there will be live and recorded webinars and presentations focusing on the theme of *Minerals in Our Lives: 2022 is the Year of Mineralogy*. Webinars will focus on the many ways in which we depend upon minerals, as well as sustainable practices for obtaining and using minerals. The Minerals Day downloadable poster will also feature these topics. For more information on Minerals Day, go to [www.mineralsday.org](http://www.mineralsday.org).

#### 2022 Tucson Gem and Mineral Show



MSA staffed a booth jointly with the Mineralogical Association of Canada (MAC) at this year's Tucson Gem and Mineral Show from February 10 – 14, 2022. The booth featured MSA and MAC publications and programs, as well as educational displays created by Dr. J. Alex Speer. MSA was pleased to be a co-sponsor of an all-day in-person and virtual symposium during the show on the theme of *Minerals of the Apatite Supergroup and Mineral Fluorescence*. The other two sponsors were the Friends of Mineralogy and the Tucson Gem and Mineral Society. Mark Jacobson, President of the Friends of Mineralogy, presided over the very well-attended session.

MSA member and Past President Barbara Lee Dutrow received the 2022 Carnegie Mineralogical Award at the show by the Carnegie Museum of Natural History, Pittsburgh, Pennsylvania. The award is in recognition of outstanding contributions in mineralogical preservation, conservation, and education. Dr. Dutrow is the Adophe G. Gueymard Professor of Geology at Louisiana State University, Baton Rouge, Louisiana, and is an MSA Past President (2007) and Secretary (1997-1999). First awarded in 1987, 16 MSA members have been previous Carnegie Mineralogical Award recipients. MSA member John Rakovan won the award for best display (apatites), as well as the award for best photograph of a fluorescent mineral. MSA awarded a student membership to the TGMS first prize display winner in the Junior category.

Dr. Barbara Lee Dutrow (right) receives the 2021 Carnegie Mineralogical Award from Gretchen Baker, Director of the Carnegie Museum of Natural History (center) and Travis Olds, Assistant Curator of Minerals at Carnegie Museum of Natural History (left).





## RESOURCES

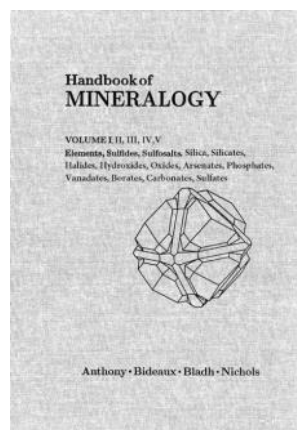
### Free Weblinks

There are resources for the collecting community on the MSA website in the section entitled Collectors' Corner. On this page are links to scientific information, rock and mineral keys, locations, articles, and much more. The link is [http://www.minsocam.org/msa/collectors\\_corner/index.htm](http://www.minsocam.org/msa/collectors_corner/index.htm).

MSA provides online educational resources for K-12 teachers, college and university faculty, and anyone else with an interest in mineralogy. These resources, which include lesson plans, animations, videos, photographs, teaching suggestions, and more, were contributed by MSA members and are available on MSA's website at [http://www.minsocam.org/msa/Teaching\\_Resources.html](http://www.minsocam.org/msa/Teaching_Resources.html).

For those collectors who would like to increase their scientific understanding of mineralogy, MSA has posted a collection of animations and videos created to accompany the textbook *Mineralogy and Optical Mineralogy* (Dyar, Gunter, and Tasa, 2020). The link to this free resource is: [http://www.minsocam.org/msa/DGT\\_Figures/](http://www.minsocam.org/msa/DGT_Figures/).

Back issues of the *American Mineralogist* from 1914-1999 are available online free to anyone at <http://www.minsocam.org/msa/ammin/toc/>. These earlier issues contain a wealth of collector information. *New Mineral Names*, which is the section of the journal that catalogues new minerals, is a free section even in all current issues.



The *Handbook of Mineralogy*, authored by John W. Anthony, Richard A. Bideaux, Kenneth W. Bladh, and Monte C. Nichols, is now online and free to anyone at <http://www.handbookofmineralogy.org>. In addition, it is being updated by Kenneth W. Bladh to include new minerals and now has 5082 species.

### Social Media and MSA-Talk

MSA is on social media, including Facebook, Twitter, Instagram, and YouTube. Videos on the MSA YouTube channel cover a variety of topics in mineralogy, petrology, crystallography, and geochemistry. Another way of linking to the mineralogy community is through the listserv MSA-Talk and its 3,500 subscribers. All are welcome to subscribe at: [http://www.minsocam.org/msa/MSA\\_Talk.html](http://www.minsocam.org/msa/MSA_Talk.html).

### CONTACT US

We at MSA headquarters welcome suggestions for how to be of greater use to the collector community. Please send any ideas to [business@minsocam.org](mailto:business@minsocam.org).

# ROCKS & MINERALS

Editor-in-Chief: Marie Huizing • 5341 Thrasher Drive • Cincinnati, OH 45247 • Phone (513) 574-7142 • [rocksandminerals@fuse.net](mailto:rocksandminerals@fuse.net)

BY NOW FM MEMBERS should have their March/April issues of *Rocks & Minerals*; it's the one with the beautiful green emerald on the cover (March is, after all, the month of St. Patrick's Day!). March/April is also the second issue of volume 97 of the publication, which was established in 1926 by Peter Zodac and has been continuously published since then, first by Mr. Zodac himself, then by relatives who tried to keep it afloat after his death, then (from 1975-2009) by the Helen Dwight Reid Educational Foundation (Heldref Publications) in Washington, DC, and from 2010 to the present by Taylor and Francis in Philadelphia.

With Taylor and Francis came color throughout *Rocks & Minerals*, more pages, better quality paper, a supportive staff, and the stability of a company that has been publishing hundreds of educational journals for more than two hundred years.

All articles are peer-reviewed, initially by one of our distinguished consulting editors (you'll find their names and affiliations given on the masthead of each issue) and second by one of our three executive editors (Drs. John Rakovan, Carl A. Francis, and Robert B. Cook).

We are honored to be affiliated with Friends of Mineralogy, and it was our pleasure to interact with many FM members during the weeks preceding and including the recent Tucson Show. Our R&M booth was located first at the La Fuente Show and later at the "Main Show."

At the show thanks were extended to FM for naming "Gold Associated Minerals from the Collector's Perspective," by Dr. Robert B. Cook, as winner of its award for Best Article in *Rocks & Minerals* in 2021. The article was published in the May/June issue, pages 200-236. Thanks are further extended for FM's donation to *Rocks & Minerals*' Color Fund (which supports color photography in issues) in Dr. Cook's name in recognition of the award.

We close with a reminder to FM chapters to send announcements of their annual symposia to *Rocks & Minerals*' Coming Events column, which appears in every issue. The listing is free and should include the name of the event, sponsor, venue and address, website, and email for further information.

Marie Huizing, Editor-in-Chief



## **COLORADO CHAPTER UPDATE**

<http://friendsofmineralogycolorado.org/>

**Your Report could be here!**



## **MIDWEST CHAPTER UPDATE**

[www.fommidwest.org](http://www.fommidwest.org)

See article on pages 18-20.



## **MISSISSIPPI VALLEY CHAPTER UPDATE**

**Your Report could be here!**

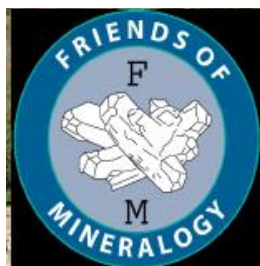


## **NEW JERSEY CHAPTER UPDATE**

<https://fomnj.wordpress.com/>

**Your Report could be here!**





## PACIFIC NORTHWEST CHAPTER UPDATE

[www.pnwfm.org](http://www.pnwfm.org)



## PENNSYLVANIA CHAPTER UPDATE

[www.rasloto.com/FM/](http://www.rasloto.com/FM/)

See article on pages 21-24.



## SOUTHERN CALIFORNIA CHAPTER UPDATE

Southern California Chapter finally makes it to Searchlight Nevada after 2-year delay with use cancellation by Nevada's Governor of state facilities and COVID-19 lockdowns. Historical Clark County welcomes us to use of their Searchlight Community Center and Historical Museum on March 26th. Steve Scott, past President of Great Basin Chapter will be our guest speaker and field trip guide for 2 days in the granite plutons of the Newberry Mountains.



# National Update

FMVA has started the new year with a full list of exciting plans and opportunities for the mineral community. In January, the board met to discuss the list of objectives and core projects for the year. Our speaker series for 2022 has been prepared and we are excited to bring in new industry contacts and friends from various fields to discuss how minerals intersect with their own work. In January, we had Dr. Shaunna Morrison come by to discuss Martian mineralogy and the mineralogy instruments on the Curiosity rover. Last month, we had our president, Thomas Hale, speak on the mineral-security nexus, which has been a growing topic in the news. This presentation included updates on Afghanistan, Ukraine, and the Democratic Republic of the Congo with reports and announcements from the White House. **FMVA is focused on delivering high-quality events that transcend traditional commentary in the mineral community.**

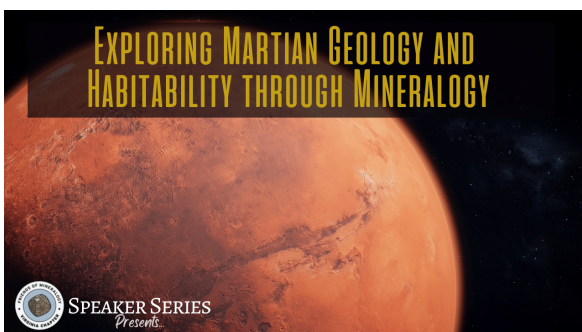
FMVA also released the [2022 Virginia Mineral Directory](#), which is the one-stop resource for all mineral-related activities, organizations, and events in the state. This is our third issue, and it continues to grow with new support from local partners. In February, FMVA hosted the second annual Virginia Leadership Council bringing in local and regional partners to discuss avenues of collaboration for the year. A special thanks to the Delaware and New York mineral societies for remaining core partners in our efforts. FMVA will be donating specimens from across our groups to fill a local display case in a highschool in Virginia. Later this year, we will release our first publication and we have many more items we cannot wait to release when the time comes!

It has been wonderful to see other FM chapters attending our events and becoming more engaged between chapters. FMVA always welcomes engagement and communication with our FM family.

## Recent Accomplishments:

- Release of the 2022 Virginia Mineral Directory.
- Speaker Series continues to receive 100+ RSVPs with large audiences.
- Virginia Leadership Council- Coordinating with local and regional societies.
- Multi-state coordination to fill local highschool display case.
- Development of Summer Rockin' PD Event for earth science teachers across the state.

## Watch our latest Speaker Series on YouTube!



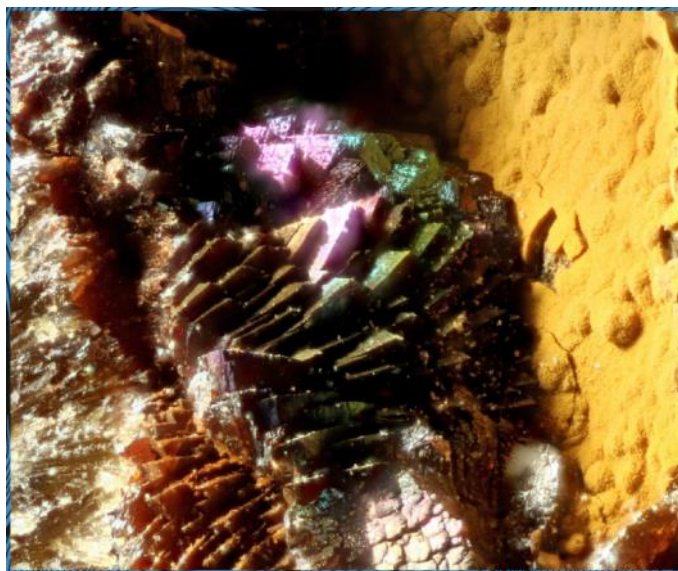


## NATIONAL MEMBERS "AT-LARGE"

Your Report could be here!

Would someone like to speak up for the "at-large" members?  
Needs, wants, comments?

~~~~~



siderite

From Big Cliff, Clackamas
County, Oregon

BC40 fov 4mm

IRIDESCENCE

Photos copyright by Beth
Heesacker



siderite

From Big Cliff, Clackamas
County, Oregon

BC24 fov 9mm

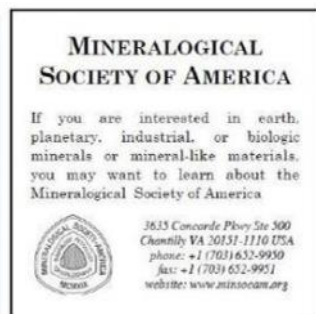
IRIDESCENCE

FM AFFILIATES



The Friends of Mineralogy is a long-time affiliate of The Mineralogical Record magazine. The magazine was founded in 1970 by John White, who was at that time a curator in the Mineral Sciences Department of the Smithsonian Institution. With the initial help of a financial backer, Arthur Montgomery, White succeeded in launching and bootstrapping the fledgling publication to the point where it was marginally self-sustaining. After seven years as editor and publisher, White stepped aside for a new Editor, Wendell Wilson.

Since then the Mineralogical Record has grown steadily in size, quality and prominence, thanks to the contributions of over 700 authors, photographers, artists, advertisers and donors. It has become a collective labor of love on the part of the entire mineralogical community worldwide. It is the only journal to have a new mineral species named in its honor (minrecordite), and it is the only journal to have received the Carnegie Mineralogical Award. Subscriptions, back issues, books and a variety of free databases are available online at www.MineralogicalRecord.com.



Mineralogical Association
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Mineral News
The Mineral Collector's Newsletter