



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.

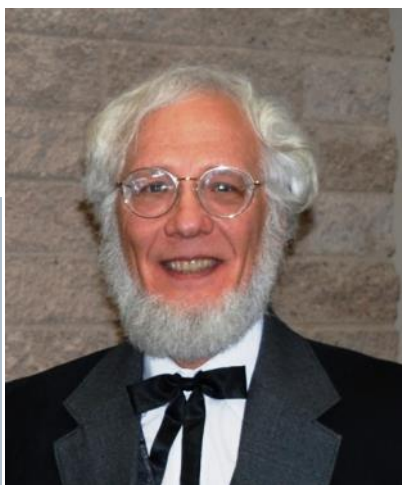
BULLETIN OF FRIENDS OF MINERALOGY

Volume 51 No. 4 ISSN 2471-7932

December 2021

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President's Message By Mark Jacobson

For FM board members and associated national committees this has been a very busy 10 months since the February board meeting or 8 months since the bylaws meeting, which were both done remotely to approve the revised bylaws, and under difficult conditions with Covid-19 still raging across the world. But, due to the diligence of many people, this has also been a successful year.

Personally, I feel quite optimistic with all the good activities completed already and new ones coming up.

In the class of future activities, the FM-MSA-TGMS joint symposium has been completely scheduled with an excellent diversity of speakers and presentations. In this newsletter, you will find the complete program for the Saturday of the show, February 12, 2022. On the national FM website, you can find a digital copy of the program, abstracts and speaker biographies.

Erin Delventhal, in charge of our webpage (webmaster), has also been very active working with Bruce Bridenbecker to enable National members or wish-to-be-members to be able to pay National membership dues online. This online payment method works for current members renewing their dues, or for new members. It also allows for the discounted rate to be applied to those who are members of affiliate organizations. Payment of National dues can still be done by mail to the treasurer.

Erin has also installed on the webpage a new tab for a "Calendar of Events" to replace the symposia tab where symposia announcements had to be manually typed in. Now you can access information about many virtual and physical symposia and lectures. Input into the calendar of events is by either a FM volunteer or directly by the organization sponsoring the event. This calendar was programmed by Ryan Klockner of the New Jersey FM Chapter, operating as Geology365. Geology365 also offers many other free services for use by the individual collector and for clubs/organizations, so if you click on their link, you can see what might interest you.

The Outreach Committee (Jessica Robertson, Thomas Hale, and Erin Delventhal) has also been active with postings on Facebook and Instagram. In addition, the home page of our national website displays our recent Instagram posts so you can view those even if you are not using Instagram.

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(Continued from page 1)

The Educational Awards committee (Jessica Robertson, Virgil Lueth, and Erin Delventhal) has returned a revised criteria for the Kay Robertson Awards for institutional and non-institutional (individual or collective groups of individuals) educational displays that can be read in this newsletter or on the FM National website.

With all this completed activity, all these people including myself still found time to go out and collect in the field, buy specimens or photograph specimens. I'm not sure how we did it but I have the photographs to prove it.

On the list of planned future activities we have the start of email or mail-in voting for four at-large Directors to the National FM board. Details on how to vote and where to send it is also found in this newsletter. That is chronologically followed by the FM General Membership meeting which will be held Tuesday, February 8th at 4 PM with the FM Board meeting on Friday, February 11th at 9 AM. The locations and details are described later in the newsletter. At the board meeting the results of the Best Article of the Year Awards for the Mineralogical Record, Rocks & Minerals, and Mineral News will be revealed. The following day, Saturday, will be the FM-MSA-TGMS Mineral symposium based on the Tucson Show theme. This is a free symposium, starts at 10 AM and runs to almost 6 PM with a break for lunch. After this I will be at the Tucson G&M Show banquet taking advantage of a much needed glass of red wine and hopefully not falling asleep.

The February board of directors will also be the last meeting for Virgil Lueth. Virgil Lueth after 20 years of service to FM, will be retiring from the Board of Directors in February 2022. He first became an at-large Director in February 2001, served as Vice-President 2004-2006 and again 2017-2019 and as President 2007-2008. This is a great long term achievement for FM to have had his volunteer help. I have appreciated his advice and guidance during my time on the board of directors as well as President.

Other future activities will be the formation of a committee to re-write and modernize the operating regulations (to reflect innovations on methods) with assistance/input from of the chapters.

On the topic of future activities, I have been looking further ahead than the immediate year. The traditional metrics for success of a volunteer organization is what have you got done and is your membership increasing as a proxy for income (or maybe it is the other way around that income is a proxy for membership). We are slowly achieving the first but viewing increasing membership by itself as a metric might be misguided. I can mention more than three mineral clubs in Colorado who have been experiencing profound membership growth. One club even closes their membership list every year by March. Other clubs are restricting attendance to field trips to keep the numbers reasonable. Another club is searching for a new meeting hall since before Covid 19 the monthly meetings were filling the meeting hall. But these same clubs are having leadership challenges – they can not find enough volunteers to fill positions. The people who do fill positions are excellent but just not numerous enough. The lack of volunteers was so severe for one club that it closed.

Perhaps the metric should be are we increasing our volunteers, are we building community and do we have the right activities. I know that the traditional activities still work – field trips, lectures, symposia, and publications (including online text, pictures, and videos). I am meeting many new, young, hugely successful field collectors, new speakers and a few new writers. Our board member's work on social media is oriented to finding and recruiting these volunteers, as well as broadening our reach. I don't where this will lead to or if it will be successful. I do know that doing nothing new will not work. To paraphrase, the Denver Post's masthead motto, first seen in 1938, attributed to Frederick Bonfils, the newspaper founder: "There is no hope for the satisfied man, learning new skills energizes life." The nature of our science, avocational activities, and hobby is changing. I want us to be there with an engaged membership.



FM Annual General Membership Meeting

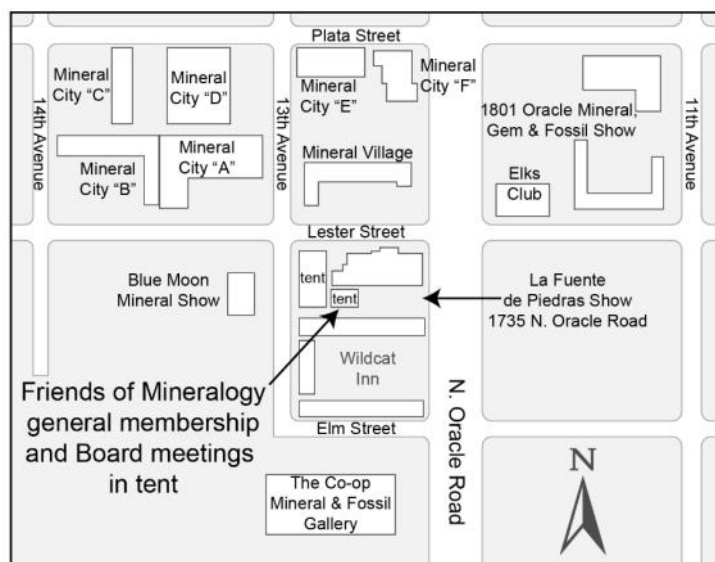
The annual FM general membership meeting will have a new meeting place: The smaller tent next (directly south of the Rock Currier Collection – La Fuente Mineral Show) on the southeast corner of W. Lester Street and N. 13th Avenue, Tucson, AZ. The meeting will be **Tuesday, February 8, 2022 from 4:00 – 6:00 P.M.**

This meeting encourages snacks, liquid refreshments (BYOB) and a chance to talk and relax with fellow members. Chapter representatives will be at the meeting to describe what their chapter has been doing and what their future plans are for their chapter. This is an opportunity to share ideas, successes and collecting stories.

The Annual Meeting of the National FM Board of Directors

The Annual National FM Board of Directors meeting will be held on **Friday, February 11, 2022 at 9:00 a.m. Mountain Standard Time** in smaller tent next (directly south of the Rock Currier Collection – La Fuente Mineral Show) on the southeast corner of W. Lester Street and N. 13th Avenue, Tucson, AZ.

The annual meeting will be a combination of in-person as well as remotely via ZOOM. This meeting will thus be the first hybrid meeting where ALL the chapters and directors can attend. With a Tucson Mountain Standard Time zone of 9 AM, the East Coast chapters will be able to zoom in at 11 AM and the Pacific Coast chapters can call in at 8 AM;



All FM members are also invited if they wish to attend either in-person or remotely by ZOOM. Current Directors (12 at-large Directors and 8 chapter representatives) who wish to attend remotely will be invited by email. Interested FM members may also receive a remote ZOOM invitation to the Board meeting by emailing the FM President at markivanjacobson@gmail.com.

Registration for online portion of FM-MSA-TGMS Mineral symposium in Tucson

The Tucson Mineral Symposium will be held as a hybrid event, both in person at the Tucson Convention Center and online via Zoom. Attendance in either format is **FREE**. In person attendance does not require registration. To receive the link to attend the online portion, please register here: shorturl.at/lpzKQ. (or the full path is: https://us02web.zoom.us/meeting/register/tZEtdumugTwsGdf4tjHH8wArhkNOHcCh4SK3?fbclid=IwAR0qFCW9podDOKockU8fKanT6sx38M4MWNdHVQzs3P_HLCTPRUQogUaDCrA)

Voluntary donations to offset the cost of the symposium can be made on the [Friends of Mineralogy National website](#).

THE 40TH TUCSON MINERAL SYMPOSIUM

MINERALS OF THE APATITE SUPERGROUP AND MINERAL FLUORESCENCE



DANIEL E. HARLOV

"Apatite and fluids: pseudomorphism, mineral inclusions, and mineral formation." (remote talk)



JOHN RAKOVAN

"The Sauberg Mine, Type locality of fluorapatite, and the recognition of apatite as a distinct mineral species."



MADELINE MURCHLAND* AND JOHN RAKOVAN

"Fluorescence spectroscopy of apatite."



EVAN SMITH

"Decoding the colors and patterns of fluorescence in Diamond."



PETER MEGAW

"The apatite supergroup minerals from Mexico."



MARKUS RASCHKE

"The fluorescence of scheelite from Xuebaoding, Sichuan Province, China."



RAY GRANT

"Vanadinite in Arizona."



BILL STEPHENS

"Pyromorphite from the world-famous Phoenixville District lead mines, Chester County, Pennsylvania."



THOMAS LOOMIS

"Apatite occurrences in the Black Hills, South Dakota."



NICOLAS HEBERT

"Orange fluorescent minerals from Mogok: from the scapolite – feldspathoid bearing marbles to hackmanite." (remote talk)



GLENN WAYCHUNAS*, GEORGE ROSSMAN, AND MICHAEL GAFT

"Electronic defects as activators of luminescence in minerals: overview and examples of novel fluorescence and tenebrescence."

*DENOTES SPEAKER

**FEBRUARY 12, 2022 • TUCSON
CONVENTION CENTER, TUCSON, AZ**



Friends of Mineralogy National Board Election

The annual Friends of Mineralogy National Board election selects **four** candidates to serve a three-year term as Board Directors on the National Board. Voting is conducted through popular vote by the national membership. For the election of 2022, Jessica Robertson will be tabulating results and presenting results to the National Board at the annual board meeting.

By requirement of the Friends of Mineralogy National by-laws, four two-year executive Director positions (President, Vice President, Secretary, and Treasurer) must be filled from officers of the Board of Directors during the annual meeting of the Board. Nominations from the floor are accepted. During the upcoming year (2022), the open positions that require a new candidate to be appointed are: Vice President, Secretary.

Current Board Directors up for re-election and willing to hold executive director positions include Mark Jacobson (President, continuing his current term), Erin Delventhal (Vice President, to begin her first term) and Linda Smith (Secretary, to begin an additional term). Although we have volunteers for these positions, we note that **all executive Director positions are open for multiple candidates to run**. If more than one candidate for an office is presented, a written ballot shall be used. Voting to select the candidates for the Director positions is conducted by the standing 12 board directors as well as the Directors nominated by each individual chapter to represent their respective chapter.

As a member of the Friends of Mineralogy, **you are encouraged to vote!** Submit your four candidate choices using one of these two methods:

Electronically by e-mail to Jessica Robertson, FM National Elections Committee, specimen-stories@gmail.com. **Emailed votes must be received by Tuesday, February 8, 2021.**

Hard copy by mail to Jessica Robertson, FM National Elections Committee, PO Box 1006, Vaughn, WA, 98394. **Mailed votes must be postmarked by Tuesday, February 1, 2021.**

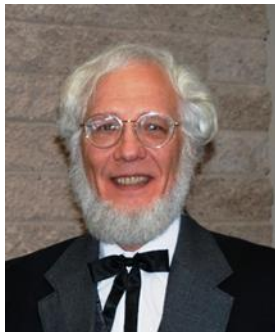
The candidates running for Director positions this year are presented below and on the following pages.



Erin Delventhal

Erin Delventhal grew up collecting minerals with her family – long road trips were frequently punctuated with detours where she and her brothers could get dirty (and very tired) while collecting crystals. Art, photography, and design took precedence as both a hobby and a profession for many years, but a visit to the Tucson Gem & Mineral Show rekindled her love of minerals. She rejoined the mineral community with enthusiasm and has since been an active member in several mineral-related organizations ranging from local to international, has been involved in mineral museums, symposiums, and other educational programs, and has joyously returned to a life punctuated by getting dirty (and very tired) while collecting crystals. Erin currently lives in Farmington, New Mexico with her cats Hayduke and Cricket and works with Enchanted Minerals LLC as online sales manager and designer/photographer.

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**Mark Jacobson**

Mark Ivan Jacobson is a geologist-mineralogist specializing in pegmatites. He obtained a BS in mineralogy-geochemistry from Pennsylvania State University in 1973 and a MS in sedimentary geology from the University of California at Berkeley in 1976. After graduate school, he worked for Amoco and Chevron in oil and gas development as an earth scientist, completing 35 years with Chevron before retiring in 2013. He has published numerous articles on the geology, mineralogy, and mining-collecting histories of pegmatites since 1978 as well as three major books: "The gems of Hiddenite, North Carolina: mining history, geology and mineralogy (2021)," "Guidebook to the pegmatites of Western Australia (2007)" and "Antero Aquamarines: Minerals from the Mount Antero - White Mountain region, Chaffee County, Colorado (1993)." He has been a consulting editor for *Rocks & Minerals* since 1984 and is the current president of the National Friends of Mineralogy (2021-2022) and past president of the FM - Colorado Chapter (2014-2016).

His current book project, on the amazonite and smoky quartz locality at Crystal Peak, Teller County, Colorado, will cover the mining history, geology and mineralogy of the locality which is located north of Florissant and Lake George in Park and Teller Counties.

**Markus Raschke**

Growing up in Bayreuth, Markus was early on drawn into minerals with northeast Bavaria a region of unusual geology and a long mining history. Following his desire to understand the inner workings of nature, Markus pursued undergraduate degrees in physics and chemistry. With his interest gyrating towards laser science and nano-optics, this took him onto a research career with PhD in Munich in 1999, research positions in Berkeley and Berlin, followed by a first faculty appointment at the University of Washington in 2006. Since 2011 Markus has been professor of physics, chemical physics, and materials science at the University of Colorado. His research is on the development and application of new optical and laser-based microscopy techniques to resolve the quantum nature of materials at the elementary level scales of its atomic constituents.

The work of his research group with more than 200 publications has been recognized by awards of the Optical Society of America, the American Physical Society, the American Association for the Advancement of Science, the Humboldt Foundation, and the Chinese Academy of Sciences.

In parallel he pursues a scientific interest in earth sciences and mineralogy. Markus has long been an active climber, mountaineer, and skier. Over the years he largely repurposed his outdoor skills to alpine mineral collecting and prospecting with a passion for the Rocky Mountains in Colorado, the North Cascades of the Pacific Northwest, and the Sichuan mountains of the Tibetan Plateau. Most recently he has studied the structure of water in beryl and the petrogenesis of the famous Xuebaoding W-Sn-Be mineral occurrence. His work on rare earth minerals and pegmatites in Colorado has led to a deeper understanding of the petrogenesis of pegmatites and related REE deposits. His combination of mineral field collecting and exploration with a scientific purpose earned him the honor of becoming a fellow of the Explorers Club.

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As a member of the board, Markus envisions internationalizing the Friends of Mineralogy connecting with related organizations worldwide, and make the organization more attractive for younger members, professionals, and students.

Linda Smith

Education

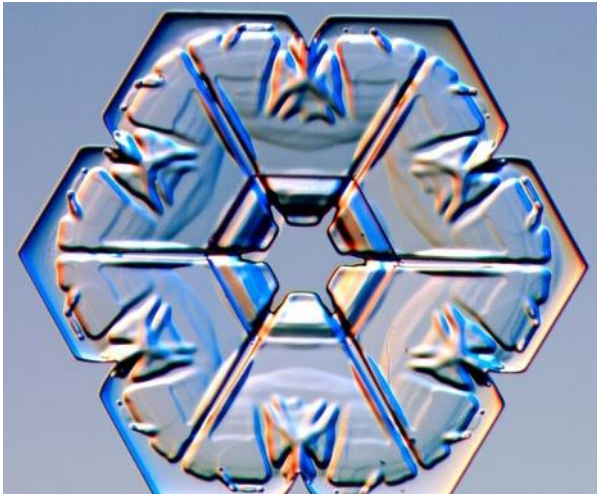
Bellevue Community College - Associate in Arts & Sciences
University of Washington - Bachelor in Science- Geological Sciences
Seattle Pacific University - Teaching Certificate, *Master of Arts in Teaching

Mineralogy Experience

Collector for over 50 years focus on minerals
Member of PNW Friends of Mineralogy for over 12 yrs.
Past Vice President of Issaquah Valley Rock Club
Past Treasurer of the PNW Friends of Mineralogy
Current Treasurer of the Great Basin Rock and Gem Club
Current Director on the board of FM National

Professional Experience

Over 30 years' experience tutoring high school and college mathematics
Mount Si High School - Managed the In School Suspension and taught ESL
Bellevue Community College—Developed and taught science curriculum, Geology for special populations, Developed and implemented alternate assessment procedures



Update to the Kay Robertson Educational Display Award

The Educational Awards committee consisting of Jessica Robertson, Virgil Lueth, and Erin Delventhal was formed in 2019 to evaluate and give structure to the educational display awards (currently presented at the Tucson and Denver shows). The committee has concluded this project and provides the updated guidelines as follows:

Kay Robertson Educational Display Award

History of the Award

Beginning in 1999, the Friends of Mineralogy sponsored an “Educational Display” recognition at the Tucson Gem and Mineral Show® (TGMS) for exhibits which help explain an aspect of mineralogy. This award was suggested and financially supported by Kay Robertson, one of the stalwarts of Friends of Mineralogy. In Kay’s words, the awarded cases would “...not only show beautiful minerals... but add some special feature that will teach something. It may be historically interesting, etc. It should be unrestricted as to subject matter, but must also be aesthetically pleasing to the general public so as not to detract from the high standard of the TGMS Show.”

Beginning in 2013, the recognition of educational display cases was extended to the Denver Gem and Mineral Show.

Beginning in 2017, monetary awards were provided to both institutional and non-institutional exhibits at both the Tucson Gem and Mineral Show and the Denver Gem and Mineral Show.

In 2020, the name was changed to the “Kay Robertson Educational Display Awards” to honor Kay Robertson for her support over the years.

About the Award

Instructive cases help the hobby grow and underline its scientific basis. Exhibitors at Tucson and Denver, both individuals and institutions, are asked to consider an educational approach to their cases. There is no restriction on the subject of the display; it does not need to follow the show theme. In keeping with the high standards of the TGMS and DGMS, the case should be aesthetically pleasing and contain specimens worthy of the show. Included specimens need not be expensive or ‘competitive quality,’ however, the contents of the case must collectively illustrate an educational theme regarding science, history, or another element of minerals or mineral collecting.

Two certificates are awarded, one for non-institutional displays and one for institutions, and the winners are honored at the Saturday night banquet.

A **non-institutional display** is defined as a display organized or arranged by an individual private collector or group of individuals exhibiting from their own privately- or internally-funded collections (i.e., a single private collector or a group of individual collectors working together on a cohesive display).

An **institutional display** is defined as a display organized or arranged by an institution, which is a group exhibiting from publicly- or externally-funded collections (i.e., museums, corporations, 501(c)(3) charitable organizations).

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Guidelines for Judging

Labeling

Labels do not need to follow a set format but should be reflective of the subject of the case and should include all necessary information to address that subject. (The aesthetic appeal of the labeling is judged as a part of the showmanship of the display; specific misinformation is judged as part of the educational value of the display.)

- Accuracy of label information, including mislabeling or typos
- Consistency of label information
- Legibility of information

Showmanship

Showmanship reflects the overall visual impact of a display case:

Material exhibited: relevant and engaging specimens that effectively convey the educational theme of the case

A case of very aesthetic specimens need not be given greater weight. The judging should give greater weight to the educational content of the case and the effectiveness of the presentation (ex. a case discussing ore samples or a historic mine may not contain a single "aesthetic" specimen, but might demonstrate an engaging educational theme).

Labels: neatness, clarity, and consistency in design

Overall impression: neatness, organization/composition of all elements, effective selection/usage of display features (cloth, lighting, etc.), effective use of visual aids (photos, graphs, maps, drawings, etc.)

Educational Value

Educational value is defined as the clarity and effectiveness of the exhibit in conveying educational content about the subject to which it pertains. Educational exhibits do not need to be tailored to suit all audiences (ex. a case addressing an introductory topic is not penalized for not containing more advanced information, likewise for an advanced case without introductory information), but a case that successfully provides educational information for a wide audience (ex. including BOTH introductory and advanced information) should receive particular consideration.

Aspects for consideration of educational value include:

- Accuracy
- Consistency
- Organization
- Information from outside sources is properly referenced

Other factors for consideration

As educational cases can span a wide variety of subjects and approaches, a variety of other factors may be presented that can be weighed into the outcome of the award. Cases that present a unique subject or present a common subject in an original way may receive further accolades under this consideration.



Outreach Committee - Newsletter Update December 2021

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. Several initiatives for 2021 have been completed, including:

Chapter Outreach

The Committee has successfully met with all FM Chapters to re-establish relationships and begin to better facilitate collaboration and support.

National Calendar of Events

In collaboration with Ryan Klockner founder of Geology365.com and NJ Chapter member, a National Calendar of Events has been launched on the FM National website - please see a full briefing on that project, as well as some background from Ryan and his goals on page 13 in this newsletter.

National Membership Dues

Through a coordinated project with Bruce Bridenbecker, FM National treasurer, FM National dues can now be paid online via PayPal or debit/credit card! Members who are affiliated with an FM chapter will need to continue to pay their dues through their chapter to continue that affiliation, but new or existing at large members can use this feature to pay dues. The discounted National rates for members of our affiliate organizations are also incorporated into this registration form. This initiative also includes an automated "Welcome to FM!" email that serves to welcome new members as well as confirm that payment has been received (renewing members will not see this email unless they use a new email address). **National dues have been suspended for 2020 and 2021, but are set to resume in 2022 - please keep this feature in mind when you are renewing your membership!**

<https://www.friendsofmineralogy.org/become-a-member/>

Social Media Outreach

Social media outreach efforts have continued since the onset of this effort in late June. Facebook metrics for the period of June 1 through December 8 show:

294,800 people reached (individual accounts who have seen content from the page; up 13,900% from previous activity),

2,200 new page followers (for a total of ~4,900), and

30,200 engagements (likes, comments, shares, etc.) with content from the FM Facebook page.

Instagram metrics for the same period show:

1,048 people reached, and

521 new followers (up from zero).

Further growth on Instagram is expected as the account becomes more established.

You can follow these accounts here:

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

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

You can also participate in the **Friends of Mineralogy community group** on Facebook by joining here:

www.facebook.com/groups/friendsofmineralogycommunity/

Examples of some educational content being shared include the following - full text can be viewed on **Facebook** or **Instagram**. For those not using social media, some of this content is also displayed at the bottom of the Friends of Mineralogy website at <https://www.friendsofmineralogy.org/> :

Winner, Best Individual Education Case at 2021 Denver Gem & Mineral Show

By Alex Schauss, Vice President, Friends of Mineralogy



Philip Persson is the 2021 Friends of Mineralogy winner for the Best Individual Education case displayed during the 2021 Denver Gem & Mineral Show. The theme of the case was, "Fluorite: A Historical Perspective."

Philip's exhibit explained how mineral dealers in the late 1800s and early 1900s used books with mineral illustrations to market and sell fluorite and other mineral specimens. What stood out in the minds of the judges was that he did not just focus on the mineralogy of fluorite, or the geology of fluorite deposits, but exposed viewers to information they likely did not know about the subject, along with a fine specimen of fluorite .

The attached photo, taken by Mark Jacobson during the show, illustrates the diversity of information and items the exhibit included in the case.



National Calendar of Events

Inspired by ideas put forth from several sources, the Friends of Mineralogy National Outreach Committee explored the concept of creating a National Calendar of Events - a single reference point for members of the mineral community to check to find upcoming lectures, meetings, field trips, symposia, and more.

A collaboration with Ryan Klockner, founder of Geology365.com and a member of the NJ Chapter, led to the programming of a robust system for calendar creation powered by Geology365 and available for free use by FM National, its chapters, and the mineral community as a whole - this system includes the ability to filter the displayed calendar by event type, to search for nearby events, and to view all event times in a selectable time zone.

The FM National iteration of the calendar can be seen at: <https://www.friendsofmineralogy.org/calendar-of-events/>

Chapters or other organizations can add events within their own club profile, which can then be displayed within this calendar. Organizations can also create their own iterations of a calendar with the ability to choose whether to display events from other organizations.

The next step of this process is getting organizations on board - the more people using the system, the more useful the tool becomes!

To add your chapter/organization events to the Geology365 platform, please follow the instructions here:

<https://www.geology365.com/managing-and-sharing-your-clubs-calendar>

Please note that you will need to create a free account for your organization, then confirm control of the account by contacting clubs@geology365.com.

Once your account is live, there are two places to confirm that you would like to share your events: one in the club profile and one for each event created. Both will need to be selected in order to be added to the National calendar.

Once you have completed these steps, please contact fmnationaloutreach@gmail.com to notify us that your events are live and we will add your organization to the National Calendar!

To learn more about Ryan's mission with Geology365, please see some words from him below!

Thank you!

Jessica Robertson, Thomas Hale, and Erin Delventhal
National Outreach Committee

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Simply put, Geology365's goal is to attract new collectors to the community and to help advance those that are already here. Before I get into how it does this, I'd like to give you a little backstory about how it came to be.

How it Started

Growing up, every family vacation we went on had a minimum one day of field collecting. My dad, Mark Klockner, would do his research and work his contacts to get access to some locality. As a kid, seeing such a wide range of collecting sites grew my interest in digging in the dirt.

However, it wasn't until 2017 that I got serious about collecting and started going on frequent trips with my dad. During this time, we started discussing how we could give back to the community. That's where the concept of Geology365 was born. It was ultimately a combination of his knowledge of geology and my knowledge of software development.

For the Collector

For individual collectors, the site is quite simple. The primary functionality of Geology365.com for the collector is to catalog their collection. Preserving the provenance of a specimen is highly important, not just for the history of the piece, but also for family members that may inherit your collection one day.

Once you have cataloged your collection, you can design and print labels. You can choose to include a QR code on your labels that can be scanned to see an image and more information about the specimen.

For the Club

There are many features and tools that have been created for clubs and many more still to be built. Many of the features tie into the free website that Geology365.com will host for your club. This website is responsive (it looks good on a desktop, laptop, tablet and a phone) and allows your club to accept membership dues online, manage forums, create articles, etc. In addition, you can manage your club's events and have them appear on the website when appropriate, and automatically archive when the event passes. You can also choose to share your events which will allow other organizations to include them on their calendars.

There are many more features for your club to use. To see a full list of features (current and future), please click here:

<https://www.geology365.com/upgrade-mineral-club-account-to-premium>

Thank you!
Ryan Klockner
Geology365.com
Friends of Mineralogy New Jersey Chapter



Every Rock Has A Story

I wanted to share this very special episode of "Every Rock Has A Story". This one features nine kids, age 4-12, from across the country. They have sent in their own rock story videos - inspired by their own collections, experiences, and wonders - which we have assembled into this incredible episode. Note that we have secured signed parental permission for all of the children who contributed. Trust me, you will enjoy watching this one.

<https://youtu.be/egJe3VaBvb8>

Please share it with kids, parents, and teachers you know... and anyone who finds joy and inspiration in the wonders of the earth. These kids represent the future of geoscience. As we just enjoyed Thanksgiving here in the States, I am so thankful for these young scientists and for the inspiration they have given me through their stories, their wonder, and their love of rocks and minerals. That the Every Rock Has A Story video series might have helped spark that wonder in each of them makes me very happy as well. Still four more episodes coming this year... every Wednesday through Christmas.

Best Regards,
Ethan

Editor's Note:

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





Mineralogical Record Tucson, Arizona mineralogicalrecord.com

Your friends at the *Mineralogical Record* have been working hard to bring the best mineralogical information and photography to you, our loyal readers. If you somehow haven't heard by now, we're working on a new supplement, *Eureka!*, which will be unlike any supplement we've done before, as its sole purpose will be to showcase individuals' self-collected specimens. We've invited field collectors all over the world to submit chapters, and the response has been overwhelming: about 90 collectors have sent in wonderful photos of their best finds, together with collecting stories, and the final supplement is going to be huge. Watch for it early in 2022.

We already have plenty of great articles lined up for the six issues of 2022 and for later issues as well, but we always need more, 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. We remain very interested in securing articles on localities, but we also welcome articles on collectors and their collections, on the history of mineralogy and mineral collecting, on mineral properties and new discoveries in mineralogy, on museum activities, and on much else...surprise us with your submissions!

Updates and improvements to our website (www.mineralogicalrecord.com) continue to be made regularly. The website now allows you to set up an account with auto-renewals so you don't miss a single issue. We have also enhanced the search functions in order to make it easier to find your way amid the tremendous amount of content, and further search function enhancements are currently under development. We've also been hard at work increasing the sheer amount of digital content available on the website, with the goal of adding a digital subscription option by early 2022—even now the site offers 40 out-of-print back issues in digital form. Finally, we've made a flip book preview of our latest issue and of the new "What's New Compendium" available on the website, making it much easier for people who have never seen the *Mineralogical Record* before (yes, there are such people) to see just what a great publication it is.





Mineral News

The Mineral Collector's Newsletter

Excalibur Mineral Corporation

Publishers of the Monthly Periodical Mineral News

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The December issue of Mineral News includes part 1 of a detailed study of the little-known Jetty Mine in Anaconda, Montana. The report deals with sulfide and sulfosalt mineralogy at the locality, with part 2 later focusing on some of the oxidized phases that were found there. Maps, along with locality and specimen photos, are included, as are several SEM images in backscatter mode. In addition, an article entitled "Kolwezite Anxiety" recounts the trials and tribulations experienced by one collector's effort to verify the presence of the mineral kolwezite in his collection. Excellent color photos are provided, as are careful descriptions of his observations and analytical findings. The complete 2021 Annual index (Volume 37) also appears in the issue, sorted by author, by mineral and by locality for all articles that appeared in 2021.

Mineral News has been published continuously for thirty-seven (37) years, beginning in 1984 as a black and white, eight-page newsletter by Lanny Ream and acquired and expanded by Tony Nikischer of Excalibur Mineral Corporation in 2003. Today, each monthly issue is at least sixteen (16) pages long and produced in full color, and a U.S. subscription price remains at \$30.00 per year.

Dubbed as "*The Mineral Collector's Newsletter*", content is generally divided into three major categories: new mineral finds, historical or ephemera-related articles of interest to collectors, and abstracted descriptions of new mineral species approved by the International Mineralogical Association. Brief announcements of upcoming shows and symposia are also provided, and obituaries of well-known collectors or dealers are occasionally presented, as are book reviews of new, mineral-related titles.

Mineral News has no paid authors, and new, previously unpublished articles relating to collecting stories and localities are actively solicited from collectors and dealers. Turnaround time for accepted articles is generally 60 days or less. Submissions are via email (MS Word, WordPerfect or similar formats), and all editing and layout work is provided free of charge. All submitted material remains copyrighted by the authors.

If you have a mineral-related story to tell, why not try a submission to *Mineral News*?





The Mineralogical Society of America: Collaborations, Resources, and Upcoming Events

The Mineralogical Society of America (MSA) is a 102-year old scientific member organization dedicated to the promotion of mineralogy, crystallography, geochemistry, and petrology. 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

Collaborations

MSA collaborates with a number of organizations to further its mission and to bring its resources and programs to the widest possible audience. An exciting upcoming collaborative effort is the 40th FM-TGMS-MSA Tucson Mineral Symposium. This symposium is held in conjunction with the Tucson Gem and Mineral Show® (TGMS), and will take place on Saturday, February 12, 2022. The symposium is co-sponsored by the Tucson Gem and Mineral Society, the Friends of Mineralogy (FM), and the Mineralogical Society of America. The symposium theme is the same as the show theme: "Minerals of the apatite supergroup and mineral fluorescence." Speakers include Daniel Harlov, John Rakovan, Madeline Murchland, Evan Smith, Peter Megaw, Ray Grant, Bill Stephens, Thomas Loomis, Nicolas Hebert, Glenn Waychunas, George Rossman, and Michael Gaft. The organizers expect an audience of avocational and professional mineralogists and geologists. Further details about the symposium are on the Friends of Mineralogy [website](#). MSA will have a booth at the TGMS with unique mineral displays and publications from both MSA and the Mineralogical Association of Canada. Please take time to stop by.

MSA also collaborates with a variety of organizations on Minerals Day each year. Minerals Day is the Monday of Earth Science Week, the second full week in October. Last year, the Friends of Mineralogy participated in the Minerals Day careers video project organized by MSA. The FM videos are on the [MSA YouTube Channel](#), as well as those featuring forensic geoscience (FBI Labs), science communications, gemology, mining and aggregate, environmental consulting, mineral museum curation, glass and ceramics research and development (Corning), working as a scientist for NASA and being a rotator at the National Science Foundation. MSA invites and welcomes new organizations, particularly local, state, and regional rock and mineral clubs, to participate in Minerals Day 2022 (October 10). MSA is planning on expanding its careers in mineralogy series to include more about mineral collecting, sample preparation, and creating mineral displays. Please contact Ann Benbow at abenbow@minsocam.org if you are interested in participating.

Free Resource from MSA

MSA provides *The Handbook of Mineralogy*, authored by John W. Anthony, Richard A. Bideaux, Kenneth W. Bladh, and Monte C. Nichols, free and online to anyone at <http://www.handbookofmineralogy.org>. It is regularly updated by Ken Bladh and now contains 4988 minerals. The *Handbook of Mineralogy* series was conceived to distill into one page the data crucial to identification of all mineral species sufficient to distinguish a species from any others.

Student Research Grants

MSA's student members can apply each year for one of three \$5,000 research grants. One of these grants is for research in crystallography, and the other two are for research projects in mineralogy and petrology. There is more information about the grants at www.minsocam.org, under Awards & Grants.

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.





COLORADO CHAPTER UPDATE

<http://friendsofmineralogycolorado.org/>

Your Report could be here!



MIDWEST CHAPTER UPDATE

www.fommidwest.org

John Medici Receives the Carnegie Mineralogical Award

By Johan Maertens

This article was first published in the Glacial Groove published by The Columbus Rock & Mineral Society and reproduced with approval from the author.

Friends of Mineralogy Midwest member Dr. John C. Medici, an avid mineral collector for over fifty years, from Ostrander, Ohio was the recipient of the Carnegie Mineralogical Award. The award honors those who have made outstanding contributions to mineralogical preservation, conservation, and education that match the ideals advanced by the Carnegie Museum of Natural History, funded by the Hillman Foundation, since 1987.

Many of us have experienced John's kindness and patience helping collectors obtain good specimens during field trips. John has preserved exceptional specimens from around the United States. John specializes in minerals of Ohio and the Herkimer district of New York but has collected in over half of the states in the US and many sites in Ontario and Quebec. He offers many of his best specimens at discounted prices or by donation to numerous museums, many of which are on display for the public to enjoy.

John's articles and photos of his specimens have appeared in every major mineral magazine, including The Mineralogical Record (for example, read John's article on The Auglaize quarry, Paulding County, Ohio, July - August 2019 issue, pages 399- 427) and Rocks & Minerals (for example, read John's article on Ohio's Delphos quarry in the November/December 2020 issue, pages 498-514). He co-authored two chapters in the book American Mineral Treasures. He has been a featured speaker at numerous mineral symposia including The Dallas Mineral Collecting Symposium, the Friends of Mineralogy Midwest Mineralogical Symposium, and the Rochester Mineralogical Symposium, and has won awards for his self-collected specimens at national and regional gem and mineral shows.

"John Medici is an excellent choice for the 2020 Carnegie Mineralogical Award," said Travis Olds, curator of Minerals, in the section of Minerals and Earth Sciences at Carnegie Museum of Natural History. "His contribution to the mineral community has been significant, but his greatest contribution to specimen mineralogy is his dogged pursuit of top-quality specimens in the field, specimens that would otherwise be destroyed by industry or nature."

With the cancellation of the Tucson Gem & Mineral Show, where the award is normally presented, due to COVID-19, the award presentation was held virtually and is posted on Carnegie Museum of Natural History's website, URL https://youtu.be/jl_TQ3ickP4

In John's own words:

"I am really honored and I'm a little overwhelmed with being nominated for the Carnegie Mineralogical Award. And surprised, because I'm not in academia, I'm not a museum curator. My business is not minerals, that's not my living and I never took a geology or mineralogy course.

The fun is getting out and doing the easter egg hunt type of atmosphere field collecting and that's probably the most fun for our everyone in our family: Getting out in nature and being able to just concentrate on collecting.

So that's what we have done. My personal collecting history approaches 60 years. I'm past 80 at this point and as long as I can still get out and handle a rock pile in the quarry, I will be very happy about it. I'm hoping my sons (Brett, Jay) who all enjoy that kind of thing, also will continue with their work. I hope quarries and mines are not overwhelmed by government controls that prevent them from getting us in and collecting.

I've pursued a lot of different athletic activities along with mineral collecting while handling a full-time job. So, I've had to do them sort of sporadically. By doing them sporadically, I avoid the situation you get into when you multitask, and I can focus on the interest at hand. I think that this has contributed to our success in collecting and I've taught my sons that and in observing them, they're accomplished collectors.

I think at this point they're a little better because they're able to handle bigger hammers." John inspires all of us with his presentations, sharing and coaching during field collecting.

Congratulations John!

We are proud of you and grateful for your contributions to the greater Ohio mineral collecting community.

Other FM MW members receiving the prestigious Carnegie Mineralogical Award are prof. Dr. John Rakovan in 2019.



MISSISSIPPI VALLEY CHAPTER UPDATE

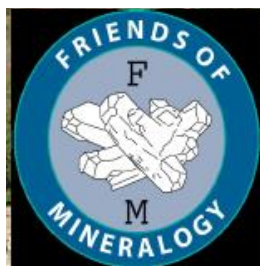
Your Report could be here!



NEW JERSEY CHAPTER UPDATE

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

Your Report could be here!



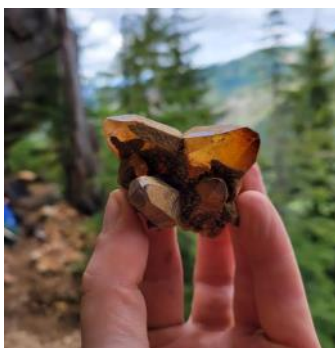
PACIFIC NORTHWEST CHAPTER UPDATE

www.pnwfm.org

President's Message Toby Seim

Greetings All,

I would like to start by communication of how proud I am for the results from our October Symposium "Minerals of Africa". We had a total of 91 attendants who were present at the virtual symposium and because the talks were all recorded and are available to the general public, the exposure to the talks will continuously grow. I'd like to give my thanks to all the participants and a special thanks to the people who put in the work behind the scenes to produce another successful symposium for our Pacific Northwest Chapter.



Our theme for the 2022 Symposium was thoroughly discussed and voted on : "Good and Bad Habits in the Mineral World" is our theme. While this may not be the official title of the theme, the focus will include Crystallography and Growth Habits. The 2022 Symposium committee will be busy with preparations for what we all hope will include both a virtual and live event in Kelso next October.

With the unfortunate conditions and hurdles in 2021 (Covid19, Wild Fires, Etc.) I was unable to adventure and field collect as much as I have in previous years. Fortunately even with limitations, I was lucky enough to find a few special stones like this Japan Law Twin from King County (see below photo) to add to my collection.

I am confident 2022 will be a year where there will be improved collecting opportunities and I truly believe someone from our PNWFM Chapter will bring in a game changing find. I wish you all of good health and thank you for continuing to support the advancement of minerals.



PENNSYLVANIA CHAPTER UPDATE

www.rasloto.com/FM/

Hello Friends of Mineralogy.

I am pleased to report that the Pennsylvania Chapter of the Friends of Mineralogy (FM-PA) held its annual Symposium November 13 & 14, 2021 and it was a success! We worked hard to find a venue to have our hybrid, in person-online Symposium and managed to secure a small conference room and 2 classrooms at the Brightside Opportunities Center in Lancaster Pennsylvania. A bit more

expensive than past years at F&M University, but adequate for our needs. Last year we held a Zoom only symposium, which went quite well, but we all missed that in-person contact. The COVID protocols in place last year prohibited in person meetings, and this year all the universities in the area would only allow students and staff on campus, so it was a hard fight finding a good spot. Our host for the Saturday event was wonderful and though we had a few minor technical glitches everything worked out great. At the business meeting the board members were re-elected by unanimous vote of the membership, and some other business was quickly dispensed.

We had 5 speakers this year including myself, three Board members (Bill Kochanov, PG, PAGES-retired, Ron Sloto, USGS-Retired, Bill Stephens, PG) gave talks in person and Dr. Ryan Kerrigan PhD-UPJ and Dr. Peter Heaney gave their presentations via zoom.

William Kochanov, PG, Pa. Geological Survey, retired
Revisiting G33: The Hummelstown Hematite Locality

Ryan Kerrigan, PhD, University of Pittsburgh - Johnstown
The Geology of Corundum Hill, Chester County, PA –
Serpentinities intruded by Pegmatites

Peter Heaney, PhD, Penn State
Iris Agates and Cantor Dusts: The Textural Complexity of Agates

Ronald A. Sloto, PG, West Chester University
Minerals of the Silver Hill Quarry, Brecknock Township,
Lancaster County, Pennsylvania

Bill Stephens, PG, Stephens Environmental
Pyromorphite! The Famous Phoenixville Lead-Zinc Mines

At some point, the recordings will go up on our website and attendees will be able to listen to them again.

As always, the field trip follows the Saturday symposium meeting on Sunday. This year we were able to coordinate the field trip with one of the talks so everyone had the background on the site before going. My seminar on Pyromorphite and other minerals from the Phoenixville Lead-Zinc Mines provided the foundation for any who had either not been before, or who were not fully familiar with the history and quality of classic specimens. Of course, everyone at FM-PA knows about the famous Phoenixville lead-zinc mines which include the Wheatley, Brookdale, Chester, SW Chester and Phoenix Mines, from which world class pyromorphite has been collected. Only the Brookdale and SW Chester dumps are still open to collecting courtesy of the owner of the Pickering Valley Golf Club.



Collecting on the Brookdale Dumps

I'm looking forward to participating in the national Symposium in Tucson February 2022. Our Chapter's first ever open Zoom seminar will be a report on the Tucson Symposium and show. I hope to have 3 other open presentations and at least one additional field trip before our Chapter's 2022 Symposium. Hope to see you all in Tucson!

Sincerely,
Bill Stephens, PG, President FM-PA.



SOUTHERN CALIFORNIA CHAPTER UPDATE

EUREKA - our chapter finally conducted its first COVID pandemic field trips on Oct 16-17th into the Cady Mountains after nearly two years of lockdowns in California. Thirty seven adventuresome club members and two budding geologist toddlers visited six abandoned mines on the perimeters of the Cady Mountain Wilderness Study Area in the Mojave Trails National Monument. We collected a variety of minerals from barite to fluorite. A highlight of the weekend was exploring lava tubes and collecting fumarole crystals on Pisgah Crater south of the Cady Mountains before camping over-night with campfire comradery.

Searchlight Mining District and its mining history are our plans for March 26th, 2022 weekend to seek out smokey quartz and other miarolitic pegmatite minerals found in Southern Nevada. We welcome Steve Scott, past president of the Great Basin & Nevada Chapter to be our primary speaker and tour guide for the weekend. If interested in joining us for the spring field trip program, please contact Dr. Don Buchanan by March 20th

Dr. Don Buchanan, President; SCFM Chapter via e-mail address dbuch7326@aol.com



VIRGINIA CHAPTER UPDATE

<https://www.friendsofmineralogyvirginia.org/>

Spring 2022 Publication Plans: The time has come!

NORTHERN VIRGINIA TRAPROCK QUARRIES

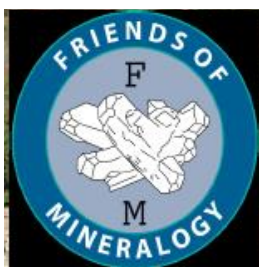
The VMP has officially partnered with Diamond Dan Publications in Rochester, NY to develop the first test chapter for the Virginia Minerals publication. This 15-20pg booklet will focus on the Northern Virginia Traprock quarries and provide interdisciplinary content which emphasizes the role of aggregate producers in local economics and infrastructure and development. The team hopes to attract support of local industry and teacher organizations to distribute and make this document useful for education and public consumption. Our goal is to release this chapter to the mineral community for feedback and to rally support for a larger

publication around the top mineral localities in the state. Through this multi-step process, the VMP can accomplish its tasks while slowly putting together a larger final volume which honors the work of R.V. Dietrich and his Minerals of Virginia Publications. Please reach out for more information! Below are two NOVA quarry specimens from Alex Venzke.



Hydroxyapophyllite-(K) and prehnite
Fairfax quarry, Centreville, Virginia, 7 cm
Ex. Rock Currier Matt McGill photos

Stellerite - Vulcan Quarry, Virginia, USA. 2.6
cm. Matt McGill photo.



NATIONAL MEMBERS "AT-LARGE"

Your Report could be here!

Would someone like to speak up for the "at-large" members?

Needs, wants, comments?



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.

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MINERALOGICAL SOCIETY OF AMERICA

If you are interested in earth, planetary, industrial, or biologic minerals or mineral-like materials, you may want to learn about the Mineralogical Society of America

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Mineralogical Association of Canada



mindat.org

AGI american geosciences institute
 connecting earth, science, and people



Mineral News
The Mineral Collector's Newsletter