



*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.*

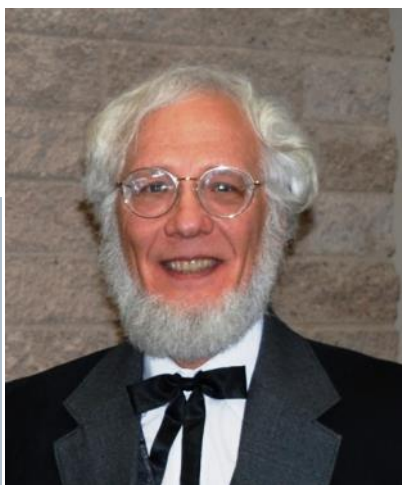
# BULLETIN OF FRIENDS OF MINERALOGY

Volume 51 No.2 ISSN 2471-7932

June 2021

## Inside This Issue

President's Message	1, 3
Officers	2
FM Logo information Needed	3
FM Newsletters Needed	3
Minutes of FM Board Meeting, March	4
Minutes of FM Board Meeting, May	5
By-Laws Revision Voting Results	6
Book Review	7
Western Museum of Mining and Industry Update	8
Response to UV Radiation	9-12
Rochester 2022, Call for Contributions,	13-16
Canadian Micro Mineral Symposium 2021, Report	16-19
Rice Museum Update	19
New Mexico Mineral Symposium Announced	20
Atacamite and its Polymorphs	21-24
Chapter Reports	25-30
Our Affiliates	31



## President's Message By Mark Jacobson

Greeting members,

It is now early June and snow and ice has receded for most of the United States. So the field collectors are now out and about. With the covid vaccine available to everyone; physical meetings have restarted. In fact, I gave my first physical presentation, legally, to a mineral club on May 11<sup>th</sup> which was also simultaneously broadcast to more distance members via zoom.

Zoom presentations with a local or even remote speaker to an assembled audience, broadcast to remote audiences is an opportunity I believe will start to be used more frequently. This is a technique that FM National plans to do for the February 2022 Tucson Gem and Mineral Show® mineral symposium. I believe that the April 2022 Rochester Mineral Symposium may plan to do the same thing for their symposium.

FM National though has not been idle. The board with the general membership's voting help has approved the revision to the FM National by-laws. Now combinations of remote and physical meetings, both for the general membership and the FM board will be strictly legal as well as the process for calling for a general membership meeting every February. A copy of the approved bylaws can be found on the FM National website

The initial paperwork has been submitted to our bank to change the signers for the organization's bank accounts so we can start paying our expenses and fulfilling our obligations.

Alexander Schauss has initiated contacts to find a repository home for FM's historical documents and newsletters. The historical documents are to be organized, scanned to digital files, and a finding aid created before transmittal to the archive with the digital records provided to several other archives. The division of fiscal records for the Treasurer from the historical records for later archiving has started.

FM National's Facebook page, which is open to all members, has several new editors who can add and solicit material. Although each chapter may already have its own Facebook page, each chapter has the right for an editor to add material of interest to FM National's Facebook page.

(Continued on page 3)

**NATIONAL OFFICERS**

**PRESIDENT:** Mark Jacobson; [markivanjacobson@gmail.com](mailto:markivanjacobson@gmail.com)

**VICE PRESIDENT:** Alexander Schauss; [alex@aibmr.com](mailto:alex@aibmr.com)

**SECRETARY:** Linda Smith; [vanegas3@charter.net](mailto:vanegas3@charter.net)

**TREASURER:** Bruce W. Bridenbecker; [bbridenbecker@cmccd.edu](mailto:bbridenbecker@cmccd.edu)

**WEBMASTER:** Erin Delventhal; [erindelventhal@gmail.com](mailto:erindelventhal@gmail.com)

**PUBLICITY CHAIRPERSON:** Gail Spann; [bikingail@aol.com](mailto:bikingail@aol.com)

**EDITOR:** Beth Heesacker; 4145 NW Heesacker Rd., Forest Grove, OR 97116, [heesacker@coho.net](mailto:heesacker@coho.net)

**NATIONAL BOARD OF DIRECTORS**

Terms expire in February, 2022 just before the general meeting :

Erin Delventhal; [erindelventhal@gmail.com](mailto:erindelventhal@gmail.com)

Virgil Lueth; [vlueth@nmt.edu](mailto:vlueth@nmt.edu)

Mark Jacobson; [markivanjacobson@gmail.com](mailto:markivanjacobson@gmail.com)

Linda Smith; [vanegas3@charter.net](mailto:vanegas3@charter.net)

Terms expire in February, 2023 just before the general meeting :

Matt McGill; [matt@irocks.com](mailto:matt@irocks.com)

Jessica Robertson; [jar7709@hotmail.com](mailto:jar7709@hotmail.com)

Jeanine Mielecki; [jaynine9@aol.com](mailto:jaynine9@aol.com)

William Besse; [wwbesse@gmail.com](mailto:wwbesse@gmail.com)

Terms expire in February, 2024 just before the general meeting :

Alexander Schauss; [alex@aibmr.com](mailto:alex@aibmr.com)

Alfredo Petrov; [alfredo@mindat.org](mailto:alfredo@mindat.org)

Bruce W. Bridenbecker; [bbridenbecker@cmccd.edu](mailto:bbridenbecker@cmccd.edu)

Alex Venzke; [alex.venzke27@gmail.com](mailto:alex.venzke27@gmail.com)

**CHAPTER REPRESENTATIVES (ALSO BOARD MEMBERS)**

**COLORADO CHAPTER:** Bob Hembree; [rhembree@comcast.net](mailto:rhembree@comcast.net)

**MIDWEST CHAPTER:** OPEN

**MISSISSIPPI VALLEY CHAPTER:** Larry Nuelle; [lnuelle@gmail.com](mailto:lnuelle@gmail.com)

**NEW JERSEY CHAPTER:** David Shapiro; [Dshapiro33@gmail.com](mailto:Dshapiro33@gmail.com)

**PACIFIC NORTHWEST CHAPTER:** Toby Seim; [pnwgemcollectors@gmail.com](mailto:pnwgemcollectors@gmail.com)

**PENNSYLVANIA CHAPTER:** Bill Stephens, PG; [bstephens@stephensenv.com](mailto:bstephens@stephensenv.com)

**SOUTHERN CALIFORNIA CHAPTER:** Dr. Don Buchanan; [dbuch7326@aol.com](mailto:dbuch7326@aol.com)

**VIRGINIA CHAPTER:** Thomas N. Hale; [VIRGINIAMINERALPROJECT@GMAIL.COM](mailto:VIRGINIAMINERALPROJECT@GMAIL.COM)

**EX-OFFICIO BOARD MEMBERS**

**ROCKS & MINERALS:** Marie Huizing; [rocksandminerals@fuse.net](mailto:rocksandminerals@fuse.net)

**THE MINERALOGICAL RECORD:** Wendell Wilson; [minrecord@comcast.net](mailto:minrecord@comcast.net)

**MINERALOGICAL SOCIETY OF AMERICA:** Alex Speer; [jaspeer@minsocam.org](mailto:jaspeer@minsocam.org)

**Mindat:** Jolyon Ralph; [jolyon@mindat.org](mailto:jolyon@mindat.org)

**MINERALOGICAL ASSOCIATION OF CANADA:** Paula Piilonen; [ppiilonen@mus-nature.ca](mailto:ppiilonen@mus-nature.ca)

**MINERAL NEWS:** Tony Nikischer; [tony@excaliburmineral.com](mailto:tony@excaliburmineral.com)

**(President's message continued)**

For the 2022 Tucson mineral symposium, we have been soliciting speakers, so far we have four. Please consider giving a talk, we have a whole day (Saturday) we can use. Our call for papers is on our website, our last newsletter, as well as in our *Rocks & Minerals* and *Mineral News* advertisements. The change of our magazine advertisements is thanks to the efforts of Erin Delventhal and Matt McGill.

I am also impressed by several members submitting articles to be included in the National newsletter. This is a great opportunity for these articles to reach a larger audience. I encourage all members to take advantage of our newsletter.

Mark Ivan Jacobson

~~~~~

**The National FM Logo**

Our organizational memory has grown quite short. I am trying to find any member who remembers what the mineral is on our logo, where it was from and who and when was it created. Anyone who has parts of this information please reply to the [friendsofmineralogy@gmail.com](mailto:friendsofmineralogy@gmail.com)

~~~~~

# **BULLETIN OF FRIENDS OF MINERALOGY**

## **Please help to recover missing historic Friends of Mineralogy newsletters 1972-1979**

I have been working at scanning all the Friends of Mineralogy National Newsletters and putting them on our National website. I have only located a handful of pre- 1980 newsletter and only one from volume 2 in 1973. The first official newsletters were issue in 1972. If anyone has any newsletters from 1972 to 1979, please email me at [friendsofmineralogy@gmail.com](mailto:friendsofmineralogy@gmail.com) and I will work with you to copy, scan or photograph. Photographs can be rectified to a flat page and converted to a pdf.

Mark I. Jacobson



## FM NATIONAL BOARD MEETING –Minutes Monday, March 29, 2021 Virtual ZOOM

Attending: Mark Jacobson, Jeanine Mielecki, Erin Delventhal, William Besse, Linda Smith, Don Buchanan, Jessica Robertson, Alexander Schauss, William W. Besse, Alex Speer, Alex Venzke, Thomas Hale, Alfredo Petrov, Virgil Lueth, Randy Marsh, Matt McGill, Joseph Marchesani, Don Buchanan proxy for Bruce Bridenbecker, and Jessica Robertson proxy for Toby Seim

President Mark Jacobson called the meeting to order at 7:07 pm MST and declared a quorum present.

The Agenda for this meeting is as follows:

- Revise bylaws to formally allow virtual meetings or combinations of virtual + physical meetings
- Revise operating regulations to more closely align with current implemented organizational processes
- William Besse's motion to revise term limits for President and Vice-President
- Motion to suspend National dues from Chapters for 2021
- Consider any other motions made by the Board members

The changes to the bylaws were reviewed and it was moved by Alexander Schauss and seconded by Erin Delventhal to adopt the changes. The motion was called by Alexander Schauss and seconded by William Besse after discussion. The motion to adopt the changes passed unanimously.

It was moved to suspend Chapter dues to National for year 2021 due to COVID-19 by Randy Marsh of the Midwest Chapter. The motion was seconded by Alexander Schauss. The motion was called by Alexander Schauss and seconded by Don Buchanan. The motion carried with one abstention by Randy Marsh to avoid a conflict of interest.

A motion was made by Jessica Robertson to make the organization, Young Mineral Collectors, an affiliate of Friends of Mineralogy. The motion was seconded by Alexander Schauss. After some discussion the motion was called by Alex Schauss and seconded by Erin Delventhal. The motion carried.

A motion by Erin Delventhal was made to offer all affiliate organizations a reduced membership dues fee of \$5.00 from the current dues of \$11.00. The motion was seconded by Alex Schauss. After discussion the motion was amended to offer the reduced dues for a period of 2 years. The motion was seconded, called by Alex Schauss, and seconded by Thomas Hale. The motion passed.

A motion was made by Alex Speer and seconded by Linda Smith to review the Operating Regulations. After much discussion on various sections of the Operating Regulations the motion to table the review was made by William Besse and seconded by Don Buchanan. The motion was called by Mark Jacobson and seconded by Erin Delventhal and the motion to table the review was carried. A committee of Alexander Schauss, Don Buchanan, Mark Jacobson and Alexander Speer was formed and will review and revise the verbiage of the Operating Regulations document for later presentation by the entire voting board.

A motion was made by Thomas Hale and seconded by Don Buchanan to close the meeting at approximately 9:45 MST. The motion was unanimously carried.

Respectfully Submitted, Linda Smith, Secretary



**Friends of Mineralogy National  
7528 Lucerne Vista Ave.  
Yucca Valley, CA 92284**

Founded 1970, Tucson, Arizona, a non-profit 501(c)3 organization

A service organization dedicated to promote, support, protect, and expand the collecting of mineral specimens, while furthering the recognition of their scientific, economic, historic and aesthetic value.

**FM NATIONAL BOARD MEETING-Minutes  
Tuesday, May 18, 2021  
Virtual ZOOM**

Attending: Dr. Don Buchanan, Alex Venzke, Diane Soccio, Alexander Schauss, PhD, William Besse, Jessica Robertson, Linda Smith, Mark Jacobson, Matt McGill, William Besse proxy for Alfredo Petrov, Matt McGill proxy for Erin Delventhal and Linda Smith proxy for Jeanine Mielecki

President Mark Jacobson called the meeting to order at 6:03 PDT and declared a quorum present.

The purpose of this meeting was to identify and approve the authorized signers on the checking and savings accounts of the Friends of Mineralogy National.

It was moved by Linda Smith that the Treasurer, the Treasurer's assignee and the President of FM National be authorized signers on the organization's checking and savings accounts. The following listed individuals are the authorized signers:

Bruce Bridenbecker, Treasurer  
Don Buchanan, Treasurer's assignee  
Mark Jacobson, President

The motion was seconded by Alexander Schauss.

The motion was called by Alexander Schauss. Seconded by Linda Smith.

Motion passed unanimously.

A motion was made by Mark Jacobson and seconded by Alexander Schauss to close the meeting. The motion passed unanimously.

Respectfully Submitted,

Linda Smith, Secretary



## FM National Bylaws Revision Approved By General Membership

The vote to approve or reject a revision of the Friends of Mineralogy National bylaws has resulted in an approval of the revisions, with 98 votes in favor of approval, and 1 vote in favor of rejection. Thank you all for your participation!.

Votes counted and confirmed by Erin Delventhal, Matt McGill and Linda Vanegas-Smith. May 19, 2021.

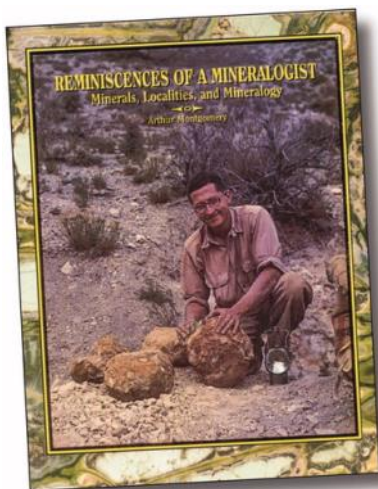
~~~~~



Columbite, Keketuohai no. 1 pegmatite, Fuyun County, Xinjiang Province, People's Republic of China. 6 cm tall. Collected before 1980. Geological Museum of China, Beijing. Mark Jacobson photograph.

Aquamarine beryl with faceted stone, Royalston, Worcester County, Massachusetts. Harvard Mineralogical and Geological Museum, specimen 80150. 2013 Rochester Mineral Symposium. Mark Jacobson photograph.





Erratum for Bulletin of FM, June 2021, page 7

## The Book, *Reminiscences of a Mineralogist*, Still Available

By John White

When the book *Reminiscences of a Mineralogist* by the late Arthur Montgomery first appeared in 1997, I bought a copy and put it on a bookshelf for later reading. Unfortunately, that later reading did not occur until very recently. The reasons for my finally starting to read the book are complex, and I will not go into them, but I have to say my joy in discovering this fantastic book made me sorry that I didn't read it long ago. As I read now I could not help but feel that a close friend newer to minerals than I would revel in reading it, so I looked for a source where I could gift him a copy. A source not only was found, but I also learned that the

source has a stockpile of about one hundred copies, something that I personally have had something to do about by buying more gift copies.

Early on in my reading I began to wonder if this book had ever been reviewed in *Rocks & Minerals*. An inquiry to Marie Huizing proved fruitful; she found that the very prolific book reviewer Bob Cook had indeed done the job back in 1998 in the May/June issue of volume 73 of *Rocks & Minerals*. I was not surprised to find that Cook had much the same reaction, as expressed in his review, to this book that I had. I quote here his opening comments (p. 214):

This intriguing publication is a collection of loosely connected, anecdote filled chapters, each devoted primarily to a mineral species or mineral group. It carefully highlights some of the major events in the life of the well known mineral collector and teacher (Dr.) Arthur Montgomery in a way that periodically educates the reader with technical information—information that we should all probably know but may have avoided as we skipped through our mineralogy texts to get to the species descriptions. The book is written in an easy to read, almost conversational style and is illustrated with historical photographs, sketches, and mineral photographs.

I would add that the book is written in an engaging style that makes it hard to put down. Montgomery takes the reader on personal collecting excursions in fourteen chapters to famous localities for bixbite, wulfenite, beryl, tourmaline, diamond, mica group minerals, quartz, topaz, epidote, zircon, olivine group minerals, variscite, and others. In part of the quartz chapter the reader is taken on a hunt for "Pecos diamonds" in New Mexico with a group of about ten collectors and invited to crawl on the ground with the author in search of these charming little quartz crystals. Included is an educational text brilliantly explaining how these crystals formed. The charm and the education continue throughout the book making it the best mineralogical read in my experience. That is really saying something!

The book was written in 1965 but it remained unpublished until the publisher of *Matrix*, Jay Lininger, jointly with the Pennsylvania Chapter of Friends of Mineralogy, published it some thirty years later. Proceeds from the sale of these books accrue to Lininger's widow, Paula. Lininger. Jay died unexpectedly in 2004, and his obituary appeared in this journal in the March/April 2005 issue, volume 80. Remarkably, this beautifully produced, wonderful 82 page book is available for only \$20 (shipping included to U.S. addresses, postage is charged for copies to foreign addresses) from Penn Minerals, Stephen Carter, 943 Sanderson Avenue, Scranton, PA 18509, email: [scarter@pennminerals.com](mailto:scarter@pennminerals.com), phone 570-342-3193.

Also available from the Pennsylvania Chapter of FM, <https://rasloto.com/FM/symposium/>.



## Western Museum of Mining & Industry Update

The **Western Museum of Mining & Industry** at 225 North Gate Boulevard, Colorado Springs, CO 80921 on website [www.wmmi.org](http://www.wmmi.org) has significantly updated its displays since March 2020, with its new reopening with more minerals and information. The museum is located just off of I-25 on the east side, a few miles north of Colorado Springs. The curator, Richard Sauers, is proud to announce these new displays which are:

- The largest exhibit of fluorescent minerals in the state, thanks to a generous donation by Conrad North
- “Mining in America” touchscreen exhibit includes information about 27 mining areas across the United States
- A new video, featuring volunteer Ken Bond, will instruct you on how to pan for gold
- “The Mining Heritage of Colorado Springs” changing exhibit (through mid-August), followed in September by an exhibit about Ludlow, curated by the UCCS Anthropology Department
- A display of three copper ingots from an 1865 Great Lakes shipwreck
- A new case with information about the different gold milling methods
- A case of minerals collected by a member family
- An exhibition case of pre-electric mine lights
- Three-cases exhibiting gold ore, industrial minerals, and various other ore
- A stand-alone display of one of the largest smoky quartz specimens ever found in Colorado. It is the third largest from the Holy Moses pocket of 2002.

### Editor's Note:

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





## *Interesting Responses to UV Radiation by a Calcite Specimen by, Calvin Harris*

### Introduction

A noteworthy fluorescent calcite specimen from Rosiclare District is featured in this article. This specimen consists of two sections that have distinct crystalline forms and contrasting luminescent responses. Interestingly, they share a response generated by a non-conventional source of ultraviolet radiation.

One section exhibits a tan chromatic value in daylight that approximates the fluorescent response. The other section consists of crystals that are milky-white and the fluorescent response is a variation of white coloration. These fluorescent responses are consistent with reported findings. However, the phosphorescence observed could not be confirmed with published references. Both sections exhibit a red-orange phenomenon known as *flash* or brief intense phosphorescence.

A detailed description the luminescent characteristics of this specimen will be provided. An explanation of the possible causes of these effects will be offered.

### Geological Setting

The Rosiclare District is an area, where several mines operated along a vein deposit that runs from Southwest Hardin County to Southeast Pope County. It is located in the far southeast section of Illinois near the Ohio River and is part of the Illinois-Kentucky Fluorspar District. The district is a Mississippi Valley Type deposit (MVT), where low temperature (50°-200° C), lead and zinc ore deposits occur within limestone or dolostone strata. Mineralization takes place far from igneous activity and develops when precipitation from highly saline brine solutions undergo epigenetic emplacement. The Rosiclare District is classified as a fluoritic subtype Mississippi Valley-Type deposit where fluorite deposits are in significant quantity and magma intrusions materialized in this this area over time.

### Specimen Description

The specimen measures 14.5cm x 7.0cm x 4.5cm and consists mainly of squat, opaque prism forms with light tan coloration. These crystals are partially formed and measure 0.5cm to 3cm on edge.

Also present are translucent, milky-white, truncated rhombohedral forms. These crystals are partially formed and measure 0.3cm to 4.8cm on edge.

Additionally, the specimen includes several translucent steep scalenohedral forms, which are well-developed and measure up to 0.3cm on edge; they have a similar appearance to the larger rhombohedral forms. Only a few crystals are present and evaluating luminosity with certainty was not possible.



### Procedures

The ultraviolet lamps used to determine fluorescence and phosphorescence emit wavelengths measuring 254nm (shortwave), 312nm (mid-wave), 351nm (longwave) and 370nm (longwave). Each lamp was positioned 3-4 inches from the specimen during exposure.

A Vivitar 283 photographic flash unit adjusted to its maximum output setting was used to evaluate *flash*. The emission spectrum of a similar device, the Vivitar 285, indicates that the ultraviolet output consists of approximately 15%, 250nm and some 80%, 350nm-360 nm wavelengths. These flash units are essentially the same regarding lighting performance. The difference is the flash head of Vivitar 285 has greater mobility than the Vivitar 283 unit. The flash unit was held 2-3 inches from the specimen during exposure.

Evaluating phosphorescence preceded fluorescence to avoid eye sensitivity adjustment needed when fluorescence is initially evaluated. All observations were conducted in a dark environment.

Generally, basic techniques used to photograph subjects under low-lighting conditions prove effective when recording fluorescence and phosphorescence. However, when using a digital camera to photograph *flash*, some ambient incandescent light is helpful to produce sharp images.

### Results of Exposure to Ultraviolet Radiation

The luminescence displayed by the different crystal forms are tabulated below. The phosphorescent response and *flash* were un-differentiated with respect to both areas of the specimen. A 25-second exposure time was required for meaningful observation of phosphorescence.

#### Squat, opaque prism forms

| <u>Wavelength</u>      | <u>Shortwave<br/>(254nm)</u>                               | <u>Mid-wave<br/>(312nm):</u>                             | <u>Longwave<br/>(351nm):</u>                               | <u>Longwave<br/>(370nm)</u>                                | <u>Photographic<br/>flash unit</u>         |
|------------------------|------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------|
| <u>Fluorescence</u>    | Tan coloration, moderate intensity.                        | Similar to SW, except slightly brighter.                 | Similar to SW, except ~50% reduction in intensity.         | Similar to longwave (351nm) except slightly brighter.      | N/A                                        |
| <u>Phosphorescence</u> | Gray coloration, very weak intensity, 3-4 second duration. | Gray coloration, very weak intensity, 6 second duration. | Blue-gray color, low intensity response lasting 6 seconds. | Gray color, very low intensity response lasting 3 seconds. | N/A                                        |
| <u>Flash</u>           | None                                                       | None                                                     | None                                                       | None                                                       | Red-orange coloration, moderate intensity. |

**Truncated rhombohedral forms**

| <b><u>Wavelength</u></b>      | <b>Shortwave<br/>(254nm)</b>                               | <b>Mid-wave<br/>(312nm):</b>                             | <b>Longwave<br/>(351nm):</b>                               | <b>Longwave<br/>(370nm)</b>                                | <b>Photographic<br/>flash unit</b>         |
|-------------------------------|------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------|
| <b><u>Fluorescence</u></b>    | Light blue color, moderate-bright intensity.               | Similar to SW, except slightly brighter.                 | Similar to SW, except ~50% reduction in intensity.         | Similar to longwave (351nm) except slightly brighter.      | N/A                                        |
| <b><u>Phosphorescence</u></b> | Gray coloration, very weak intensity, 3-4 second duration. | Gray coloration, very weak intensity, 6 second duration. | Blue-gray color, low intensity response lasting 6 seconds. | Gray color, very low intensity response lasting 3 seconds. | N/A                                        |
| <b><u>Flash</u></b>           | None                                                       | None                                                     | None                                                       | None                                                       | Red-orange coloration, moderate intensity. |

**Discussion**

The tan, squat opaque prism forms exhibit similar daylight and fluorescent coloration. Four different ultraviolet wavelengths resulted in similar chromatic responses, but the intensity was wavelength specific.

The milky-white, truncated rhombohedral crystals produced a bluish-white fluorescence when exposed to four different wavelengths of ultraviolet light. The intensity of the response was based on a specific wavelength.

The phosphorescent response was uniform regarding both areas of the specimen. Each separate wavelength causes specific results. It should be noted that exposure time needed for careful observation of phosphorescence exceeded 10 seconds.

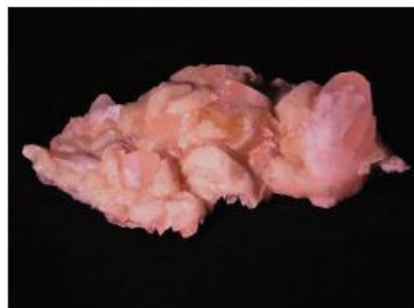
The *flash* consisted of red-orange coloration with moderate intensity. Curiously, only the photographic flash unit produced this effect. Normally, *flash* is produced when an ultraviolet lamp is quickly passed across the face of a mineral such as calcite, wollastonite, pectolite, etc., but I have discovered that a stationary photographic flash unit can produce the effect with better visibility and results and even when ultraviolet lamps failed to do so. The reason for this dichotomy may be attributed to the wavelength characteristics and intensity of ultraviolet light produced by the photographic flash unit. The *flash* displayed by this specimen is less pronounced compared to other calcite samples.

The fluorescence and phosphorescence have a muted, pastel chromatic value and appear to be affected by organic activators such as the calcium salts of fulvic and humic acids. The *flash* is likely due to ionic forms of manganese and lead, which function as coactivators.

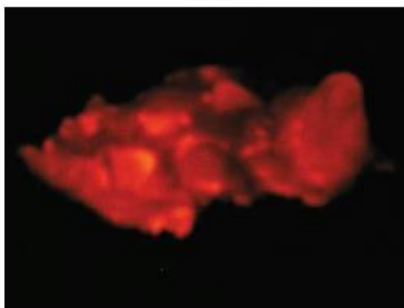


## Calcite Photos under tested conditions

Flash and white light



Flash



SWUV Light



### Selected References

- Boyer, Mark. 2011. "Flash and BIP." *The Picking Table* 52, no. 1 (Spring 2011): 16.
- Elen, Shane. 2006. (rev. Jan. 9, 2012). Beyond Visible: Ultraviolet & Infrared Modified Vivitar 285HV/285/283 Flash-Nikon SB-140 Alternative. (Internet search Feb. 2021)
- Goldstein, Alan. 1997. "The Illinois-Kentucky Fluorite District." *The Mineralogical Record* 23, no. 1 (Jan/Feb): 2-65.
- Huizing, Terry E., R. Peter Richards, Janet H. Clifford. 1997. "Calcite from the American Midwest." *Rocks and Minerals* 92, no. 1 (Jan/Feb 1997): 50-51. (May/June): 184-192.
- Rakovan, John. 2006. "Word to the Wise: Mississippi Valley Type Deposits" *Rocks and Minerals* 81, no. 1 (Jan/Feb): 69-71.
- Robbins, Manuel. The Collector's Book of Fluorescent Minerals. New York: van Nostrand Reinhold Company, Inc. 1983.
- Robbins, Manuel. 1988. "Fluorescent Forum" *Rocks and Minerals* 63, no. 3 (May/Jun): 237-238.
- Mindat (2020) reference search: Rosiclare Mining District.

Via Midwest Chapter May-June 2021

Below is a link to a YouTube channel created by Miami Universities' John Rakovan with interesting videos from the 2021 online Rochester Mineralogical Symposium. Please check it out!

<https://www.youtube.com/playlist?list=PL4AllrO7xkRdSoS-4iyXVUKHf98hn34pj>

## A CALL FOR CONTRIBUTIONS, NEW NORTHWEST MINERAL LOCALITIES AND DISCOVERIES!



Hi Everyone,

The Pacific Northwest has abundant crystalline treasures yet to share with collectors who take the time and make the effort to explore the vast geologic environments of our region and as such, this is a call for contributions to the 49<sup>th</sup> annual Rochester Mineralogical Symposium, "What's New In Minerals" Part 2, 2022!

POCKET, BVQ PHOTO

As many of you know, earlier this year in April, the kind folks of the Rochester Mineralogical Symposium presented their 48<sup>th</sup> annual symposium. For the second year due to COVID, this exciting mineral celebration was offered to everyone as a Free Event online (now available for viewing on YouTube at... <https://www.youtube.com/watch?v=o3mNbViLCIA&list=PL4AllrO7xkRdSoS-4iyXVUKHf98hn34pj> ).

As a fun part of their symposium offerings each year, the RMS folks present several sessions featuring "What's New In Minerals". For this year's second session presented by New York Mineral Dealer John Betts, several northwest field collectors including myself shared some truly exciting new mineral discoveries that we've made here in our region.

When John asked me to compile this report for the symposium, I had very little time to seek out and organize contributions this year and so testing the waters, I did a quick-and-dirty call for contributors on Facebook only. This effort immediately and successfully yielded a fine group of passionate northwest collectors who truly out did themselves in regards to the exceptional quality of their new discoveries as can be seen in our segment and just like that, we were on our way!

Organizing this group contribution for 2021 was a delightful highlight of my year introducing me to several new (at least to me) enthusiastic collectors here in Washington State who are diligently working the hills for new deposits and crystalline treasures!

Still, there were somethings I'd like to change to refine all of our experiences. For 2022's northwest contribution to the Rochester Mineralogical Symposium's "What's New In Minerals" Part 2, I think it prudent to send the "WORD" out now seeking to speak with regional collectors about their noteworthy new discoveries rather than waiting to the last minute. This way the "WORD" can hopefully spread that this effort is sincere, ongoing and worthy of participation.

I have several reasons for launching this solicitation at this time not limited to having more time to work on the conclusive identifications of specimen species, a process which may or may not involve having to send specimens out to scientists working with the RRUFF Project out of the University of Arizona... <https://rruff.info> and more, to have time to compile and write-up everyone's experiences prior to the symposium's start.

This year, after the symposium (it should have been before), I submitted our specimens to the RRUFF Project for their consideration. We have now received word back regarding our submittal and thrilling indeed are their findings!



As presented in our northwest segment, the first discovery shared featured specimens I'd recently collected from my local Jefferson County, Washington, Beaver Valley Quarry... <https://www.mindat.org/loc-8039.html> . Mineral species identification for this discovery did not require further work by the folks at RRUFF.



PHANTOM CALCITE, BVQ PHOTO



MELANOPHLOGITE, N. CARLSON PHOTO

However, our second contributor Nick Carlson, his discovery of suspected Melanophlogite is another thing indeed... <https://www.mindat.org/min-2630.html>

Ramon spectroscopy was performed but unfortunately, additional work is further required for a conclusive identification. If proven to be Melanophlogite, Nick's discovery represents some of the finest and most colorful examples of the species known from anywhere. Additionally, this would be the first discovery of this exotic species from the State of Washington!

Thea Stender the next collector featured in our northwest segment, shared gypsum crystals from a new find she recently made in Chelan County, Washington. While this species identification was quite easy, a NEW find she has made *since the symposium* was most decidedly not!

Specimens of Thea's new mineral were included in our RRUFF submittal and I cannot begin to tell you how excited I am for her. Alas however, I'll just tease you a bit here as next year we'll be sharing Thea's discovery at the 2022 49<sup>th</sup> annual Rochester Mineralogical Symposium, "What's New In Minerals" Part 2!



GYPSUM, THEA STENDER PHOTO

As a clue, her species name has 25 letters! This will be the 2<sup>nd</sup> occurrence of this mineral from the United States and will be another first specie's for Washington State. Lastly, from what I've been able to find online, Thea's specimens seem to be the finest examples for this species thus far found on Planet Earth!

Max and Madi Larsen were up next sharing their phenomenal new multi-colored fluorites with associated quartz (some Tessin habit) and calcite from Ferry County, Washington. This material is truly mind-blowingly good and was such a pleasure to share at the symposium! As they are hard at work digging, I can't wait to see more of these spectacular specimens produced by the Larsen's!



CHRYSOCOLLA

Finally, our last northwest contributor is an anonymous collector who really knocked-it-out-of-the-park with discoveries he and his family have made as was demonstrated by the incredibly beautiful, bright and colorful, copper secondary minerals found associated with limpid and lustrous needle quartz crystals from Snohomish County, Washington.

FLUORITE, QUARTZ  
LARSEN'S PHOTO

Unfortunately, on the specimen submitted to RRUFF, the stunning blue botryoids were determined to be amorphous and are beyond the RRUFF Project's capabilities to identify. More important though and not divulged in our report was that there was another mineral associated with this find, beyond my ability to identify. A specimen was submitted to RRUFF on the collector's behalf and while further testing is still required, if the *inconclusive* identification is confirmed, this mineral will be a first reported species from the entire United States!

## TOURMALINE

Lastly, the same collector and family also submitted for the RMS and for RRUFF testing what was assumed to be a Tourmaline group mineral. We now have a conclusive identification for this mineral of Fluor-Dravite. This is the first time it has been identified from Washington State and represents another important contribution to northwest mineralogy!

With this goal of contributing to our regions mineralogy, this has been a satisfying and rewarding experience for all of us and one which we are all still learning from. With Thea's new specimens and with several of the other specimens as mentioned still requiring additional work, we are poised to present more treasure-filled contributions to both the RRUFF Project and the Rochester Mineralogical Symposium to share in 2022.

To inquire how to become part of this process, I welcome hearing from you! The 2022 symposium is right around the corner!

The Pacific Northwest is a crystal-bearing treasure chest and sincerely, I hope to hear from you so that together, we can share this incredible bounty with our fellow mineral enthusiasts at next year's 49<sup>th</sup> annual 2022 Rochester Mineralogical Symposium.

Thank you and all the very best,  
John Cornish

[jcornishminerals@aol.com](mailto:jcornishminerals@aol.com)



PS... Here is a photograph of a new bright and colorful mystery mineral discovery I made less than a week ago associated with calcite and clinocllore which I am currently working on and hope to share in 2022...



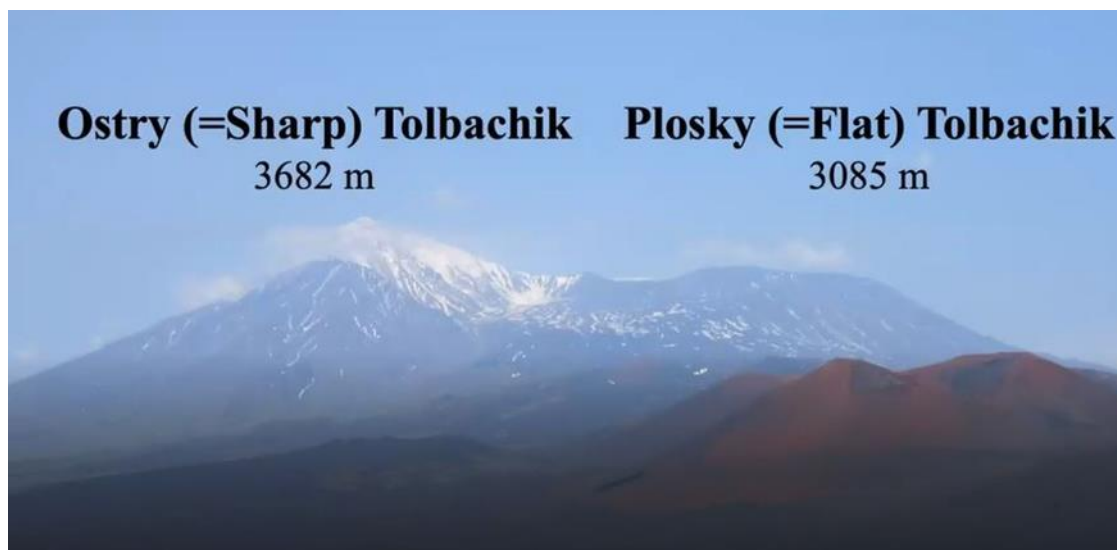
## A Recap Of The Canadian Micro Mineral Association 2021 Spring Online Symposium

By Frank Ruehlicke

The Canadian Micro Mineral Association (CMMA) was founded in 1964 for the benefit of micro mineral enthusiasts based in Central Canada and the neighboring US States. Their premier event is an annual Spring Symposium, typically held the 1<sup>st</sup> weekend of May at Brock University in Ontario's Niagara region. This location is ideal as it is about 30 minutes from the Buffalo NY airport and 60 minutes from the Toronto airport.

This past May the CMMA held its 58<sup>th</sup> Spring Symposium, this time online via Zoom. The Symposium featured 3 presentations, a short business meeting and finished with a virtual wine & cheese reception.

After opening remarks, the Symposium began with a presentation by Dr. Inna Lykova on Tolbachik, Kamchatka - A Micromounter's Paradise. Lykova, a research scientist with the Canadian Museum of Nature, is certainly well suited to speak on this subject. She holds a PHD in Geology and Earth Sciences and is one of the relatively few people to have first hand experience collecting in the area. In her presentation, Lykova began by sharing a number of images that were helpful in orienting the audience with the location of Tolbachik. That was followed by several photos and videos of the rugged volcanic topography



The "twin" Tolbachik peaks





> 10k yr  
~200 scoria cones

Rather than being a single volcanic crater, a series of smaller scoria cones form along fissure lines

A short business meeting followed Lykova's presentation and then Roy Starkey took the virtual stage to share his expertise on the Minerals Of The English Midlands. Starkey literally wrote the book on this topic .

The chosen topic is too vast to cover in an hour long presentation but Starkey presented key highlights that gave the audience a sense of the richness of the mineral history of the region. Starkey provided a great overview of specimens from the region along with notes about the general geology coupled with his personal collecting experiences.



Baryte variety Oakstone, Arbor Low, England © Roy Starkey

This led naturally to an overview of the geology of the region and an explanation of the unique volcanic evaporite environment that has resulted in this region being the type locality for some 130 minerals. Lykova described the conditions that have led to the formation of the unique assemblage of rare species. Her presentation also included photos of a number of these rare and often very aesthetic minerals. After her presentation, Lykova was generous with her time and expertise answering the many questions raised by the symposium participants.

## Minerals of the English Midlands



Roy E. Starkey

*Minerals of the English Midlands by Starkey is available [here](#)*

Starkey is an avid historian and included many archival photos that highlighted the rich historical mining and industrial heritage of the region.

The third presentation was by Dr. Anthony Kampf on the Journey From An Unknown To New Mineral.

## The March of the New Minerals

1775 – 1955 10 – 20 per year

1956 – 2000 30 – 50 per year

2001 – 2009 ~ 60 per year

2010 – present >100 per year

Current total: 5651 (as of Dec. 31, 2020)

The rate of identification of new mineral species has increased significantly in the past 20 years in part due to advancements in the technology used to determine the chemical composition and structure of smaller and smaller samples.

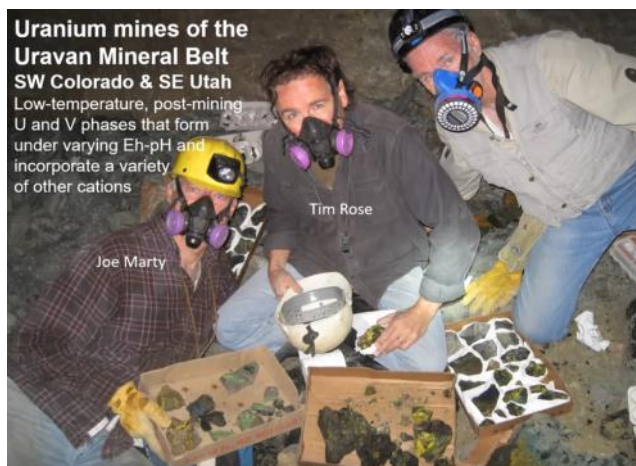
Kampf described the equipment he uses to confirm the chemical, structural and crystallographic data. He then outlined all the steps and data needed to formally describe a new mineral and the process involved to get that approved as an official new mineral species by the IMA. Kampf certainly knows this process having recently submitted his 300<sup>th</sup> new mineral description and having served as the Chair of the IMA Commission on New Minerals and New Mineral Names.

Kampf was enthusiastic in sharing his passion for new mineral identification and was generous in his praise for the collector community for their role in finding the specimens that kick off his investigations. He shared several photos of collecting parties from several localities that have been producing new minerals including the Uravan Mineral Belt of southwest Colorado and Utah.

Kampf generously stayed after his presentation to answer questions from participation and even returned during the Virtual Wine & Cheese Reception to answer even more questions.

Kampf's presentation concluded the formal part of the Symposium. Next up was the Virtual Wine & Cheese Reception. Pre-pandemic the CMMA Spring Symposium was traditionally kicked off with a Wine & Cheese Reception. But just because everyone couldn't meet in person didn't mean that this tradition could not be continued – it just called for some improvisation!

The Virtual Wine & Cheese Reception was meant to be an informal opportunity for participants to socialize, chat, share news, etc. Information about the Symposium's online auction was shared along with some fun facts. For example, the CMMA has around 65 members but 85 people attended the Symposium and over 115 people registered to attend. It was great that so many friends, old and new, were interested in and attended the Online Symposium. It was also noted that at least 9 of the participants in the Symposium have a mineral named after them – this was particularly interesting given Tony Kampf's presentation. And as mentioned we were pleased Tony rejoined the meeting to answer further questions.



Kampf with Joe Marty and Tim Rose



While everyone would much prefer to meet in person, the online format allowed a get-together that otherwise was not possible. It allowed for world class presenters that would be difficult to include in person – not just because of expense but also because of the travel commitment involved. It also allowed a broader group of participants who share a common interest and passion in microminerals from across Canada, the US, Europe and Australia. Online meetings will continue to serve as a useful tool in the future as way to include those unable to attend in person events whether that is for reasons of distance, finances, or otherwise.

The hope is the next CMMA Symposium will be an in-person event hopefully the first weekend of May 2022. Whether in-person or online, you're invited Check out the CMMA [CanadianMicroMineralAssociation.com](https://CanadianMicroMineralAssociation.com) for the Micro Mineral Of the Week and for other news and events.



**26385 NW Groveland Drive,  
Hillsboro, OR 97124**

The Museum is open three days a week, **Friday- Sunday 10:00 to 5:00 pm**, and requires **advanced reservations**. Health protocols continue to be instituted to protect the health and safety of visitors and staff.

Out of care for those who are not yet able to be vaccinated and our staff, the Museum continues to require visitors over age two to **wear masks** while on site. **Thank you** for understanding as we navigate the ever-changing landscape of COVID-19 guidance.



## 41<sup>st</sup> New Mexico Mineral Symposium

The 41<sup>st</sup> New Mexico Mineral Symposium is scheduled for November 12-14, 2021, at the Macey Center on the New Mexico Tech campus in Socorro. As of the time of this newsletter, all CDC protocols for Covid-19 will be in effect. Masks will not be required for vaccinated persons and no participation limits are anticipated.

The symposium will consist of a day and a half of formal presentations given in 30-minute time blocks. Papers will tend to focus on mineral occurrences from New Mexico and adjacent states, including Mexico. A formal field trip is planned for Friday, November 12, to the Copper Flat deposit, west of Truth or Consequences. A social is planned Friday evening for the Friends of the Museum in the atrium of the Mineral Museum, with light appetizers and a cash bar.

An informal pre-symposium social and tailgating session is held at local motels beginning on Friday, November 12, 2020 and lasts through the weekend. A symposium banquet is held on Saturday night with a silent and live auction to benefit the Mineral Symposium. A silent auction, sponsored by the Albuquerque Gem and Mineral Club for the benefit of the New Mexico Bureau of Geology Mineral Museum, will be held concurrent with the symposium on Sunday morning, November 15. The auction is open to the public and all interested may buy or sell. The proceeds from the cost of the tables benefit the NMBGMR Mineral Museum.

The New Mexico Mineral Symposium is one of the largest of its kind in the United States and draws participants from around the world. The National Friends of Mineralogy and the Colorado Chapter of the Friends of Mineralogy have supported previous symposia via participation and financial donations. The organizing committee invites all Friends of Mineralogy members to enjoy a weekend of mineral appreciation. For more information please see our website: <https://geoinfo.nmt.edu/museum/minsymp>



Dr. Peter Megaw giving a presentation about fluorescent opal from Mexico at the 39<sup>th</sup> New Mexico Mineral Symposium held in 2018.

## Atacamite and its polymorphs

John Haupt

Atacamite is a relatively common chloride mineral mostly occurring as an oxidation product of copper minerals in an arid saline environment. It is one of three polymorphs (species with the same chemical composition but different crystal structure) with the formula of  $\text{Cu}_2(\text{OH})_3\text{Cl}$ , the other two being botallackite & clinoatacamite. A fourth member of the group, anatacamite, is now a discredited species as it has been shown to be twinned clinoatacamite, rather than the triclinic dimorph. The structure and formation of the polymorphs have been extensively researched. (See Krivovichev et al (2017)).

*John looks at a family of minerals that share a green colour but need to go their own way in three dimensions*



**Atacamite** *Orthorhombic*. The most common of the three species. Its colour is bright green, dark emerald-green to blackish green. Atacamite was named in 1802 after an undefined locality in the Atacama region of Chile.

Specimens of atacamite occur in many countries and it is relatively abundant in Chile and Australia (Bottrill et al, 2010). The most notable Chilean locality is the La Farola Mine, Copiapó Province.

Atacamite occurred in many Australian copper mines. It was particularly common in the copper deposits in South Australia. Exceptional specimens came from the New Cornwall Mine, Kadina (Wilson, 2019) and during the 1980s, excellent specimens were collected in the Cattle Grid deposit, Mount Gunson Mine, Pernatty Lagoon.





Figure 1.  
Parallel crystals of atacamite  
from the Cattle Grid deposit,  
Mount Gunson Mine,  
Pernatty Lagoon. S Australia.  
FOV 3 mm

Figure 2  
Elongated crystals of  
botallackite from Cligga  
Head. FOV 2 mm tall.

Figure 3.  
Atacamite crystals exhibiting  
unusual contact twinning from  
the Block 14 Opencut,  
Broken Hill, NSW Australia.  
FOV 8 mm

Figure 4  
Triangular shaped twinned  
crystals of clinoatacamite  
formed on the side of an  
atacamite crystal. La Vendita  
Mine, Sierra Gorda, Chile.  
FOV 1mm tall

All photos by John Haupt

**Botallackite** *Monoclinic* Named after the type locality, the Botallack Mine, Trewellard, Cornwall. (Church, 1865).

A rare mineral and a polymorph of atacamite & clinoatacamite, it may be confused with kapellasite,  $\text{Cu}_3\text{Zn}(\text{OH})_6\text{Cl}_2$ , which has a similar X-ray powder diffraction pattern. It occurs as bluish green to green crystals. Some botallackites contain minor Zn, but the Zn:Cu ratio never approaches that of kapellasite.

Notable specimens came from the Botallack Mine and more recently exceptional crystal specimens were collected at Cligga Head in Cornwall (Wolfe et al, 2008). Botallackite only occurs at a few other localities world-wide.

Note: Peter Haas suggests that specimens attributed to Wheal Hazard are likely to have come from the Botallack Mine (Bottrill et al 2010).





### **Clinoatacamite**

Monoclinic. It was identified as a new species in 1996 and named for its monoclinic morphology and relationship to atacamite. It is easily confused with the closely related paratacamite  $\text{Cu}_3(\text{Cu,Zn})(\text{OH})_6\text{Cl}_2$ , (which has essential Zn in its composition). The type locality is the Chuquicamata Mine, Calama, El Loa Province, Chile.

It occurs as dark-green twinned pseudo-rhombohedral crystals. The most notable specimens have come from the La Vendida mine, Antofagasta region, Chile. Here it occurs as 'wings' on atacamite crystals. Specimens have also come from the Castletown Mine, Lochgilphead, Argyll and Bute, Scotland.



## References

- Bottrill, Ralph and Currier Rock, 2010: Atacamite. revision 1.0. Mindat Best Minerals Project, article "mesg-66-132658". [https://www.mindat.org/albest\\_atacamite](https://www.mindat.org/albest_atacamite) (accessed 11/1/2021).
- Church, A.H., 1865: Notes on a Cornish Mineral of the Atacamite Group, *Journal of the Chemical Society*, London, **18**, 212.
- Krivovichev, S.V., Hawthorne, F.C., Williams, P.A. 2017: Structural complexity and crystallization: the Ostwald sequence of phases in the  $\text{Cu}_2(\text{OH})_3\text{Cl}$  system (botallackite–atacamite–clinoatacamite). *Struct. Chem.* **28**, 153-159.
- Wilson, W., 2019: Atacamite from the New Cornwall Mine, Kadina, South Australia. *The Mineralogical Record*, **50** (2), 167-199.
- Wolfe, M., Oddy, M & Starkey, R., 2008: Mineral News. *UK Journal of Mines & Minerals*, **29**, 5-7.

Via BMS 2/2021



Pyromorphite    Llechwedd Helig, Mid Wales    FOV 3 mm    Photo David Roe

Via BMS 2/2019



## COLORADO CHAPTER UPDATE

<http://friendsofmineralogycolorado.org/>

Your Report could be here!



## MIDWEST CHAPTER UPDATE

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

### *Friends of Mineralogy, Inc. Midwest Chapter Officers' Meeting Notes- April 3, 2021*

Invitations for a meeting to discuss updated information regarding field trips and safety training were distributed to current officers, and also to FM Midwest member Scott Kell, who has provided annual safety training sessions to FM Midwest members, among others, for many years. The meeting was originally scheduled for 7:00 PM on March 31, 2021 but was subsequently rescheduled for 7:00 PM on April 3, 2021. The meeting was convened at 7:08 PM. The following attended the meeting: Treasurer Jeff Spencer, Field Trips/Safety Officer Reggie Rose; Liaison Officer Randy Marsh; Secretary Frank Konieczki; and Scott Kell.

Field trips were discussed first. They have always been an important activity to our members, and the present and future status of collecting trips was discussed at length. Field Trips/Safety Officer Reggie Rose informed the attendees that 2021 field trips are still on hold. There are no confirmed dates for field trips in 2021, but that may change, depending on accessibility to both quarries and training. Reggie noted that the five quarries where FM has most recently enjoyed collecting trips (Auglaize, Genoa, Marblehead, South Rockwood and Williamsport) still have both worker and visitor restrictions in place, so the possibility of field trips in the short term is dim. One quarry's most recent response was "Now, at a time when restrictions are being relaxed our parent company has asked us to stay the course and we have updated a few restrictions in our policy. I am unable to see the future and will not have any idea when these restrictions will be lifted to allow us to get back to any kind of "business as usual". We are struggling with our own inner company meetings and group activities that we host at our facilities."

Training was also extensively discussed. Scott Kell has graciously provided FM Midwest members with in-person, collector specific training for many years, and he also provides safety training to other groups. Unfortunately, although in-person classes have resumed on some Ohio campuses, scheduling rooms for outside groups remains prohibited, so two possible training sites, namely Wittenberg and Miami, are currently unavailable. Randy Marsh noted that the first Ohio show to confirm that it will take place is Mansfield. It was suggested that the Mansfield site could be used as a training site later in the year.



Alternatively, safety training could be done online. This option may be feasible, and there was one past exploration to have an online version of the current module. The 2019 Columbus training session was recorded in hopes that it could be used as a basis for an online course; however, the sound quality was not consistently good, especially when participants were speaking to the instructor and the attendees. There is encouraging news concerning a more recent effort to institute online training. Craig Kramer has developed an eight-section virtual training module that includes a quiz at the end and an affidavit of course completion. The format could also allow for development of a table showing scores and time spent completing the module. Scott indicated he will be meeting with the Columbus club's executives to discuss the virtual training module, with hopes that a virtual training session could be used to meet and document FM's safety training requirements. All attendees agreed this was a good idea. Jeff Spencer stated there are several providers that host this type of platform, but none are free, even for non-profit organizations. One part of the process that would be more cumbersome with online training would be distribution of the training certification documents, but they could be mailed or distributed onsite if a field trip confirmed.

There was a consensus among the attendees that another meeting should be scheduled after Scott Kell meets with the Columbus executives, and everyone present agreed that further information regarding training and field trips status will be shared with the members as it becomes available.

Meeting adjourned: 8:07 PM.

Respectfully submitted by Frank Konieczki, Secretary

Also see article on pages 9-12



## MISSISSIPPI VALLEY CHAPTER UPDATE

**Your Report could be here!**



## NEW JERSEY CHAPTER UPDATE

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

We have been keeping busy with monthly ZOOM Meetings and recently, a pair of Field Trips. The ZOOM Meetings continue to garner interest from our Members, and will be a mainstay feature for us, for some time to come. Below, I have some Field Trip reports, to share.

**Field Trip Report: National Limestone Quarry, Mt. Pleasant Mills Quarry,  
followed by Jim Van Fleet BBQ Cookout and Garage collecting**

**Date: Sat. May 22, 2021**

Members of FM-NJ and NoJMS, and DMS and PESA, in attend: Groundhog Dave Shapiro, Ronald Schulz, Alaine Laine Kamin, "The Bald Eagle" Jeff Wilson, "Pie Man" Mike Dunton, Jess and Laura Jacobsen, Bryan Davis, Gary Quam, Linda Lovstad, Anders Todd, Derek Yoost, Diana Tasco, Tim and Mark Hollister, Suz Jamieson-Shaw with Ja Shaw and Nathan, Dan "the Photog" Sackerman and Linda Sackerman, Dude Dave Miller with MK Delaleu, Mr Reveille Paul Radziewicz, Craig Grodman, Ken Weber, Nina Anne Kiliszek, Raymond Bossinger with Alana, Ryan Klockner, Dan Blanco, Dave "Lermanator" Lerman, "Lockout " Michael Capurso , Brad Plotkin, Gregg Steuben, Dusty Sodon, Danielle Rucanski, Caroline Pritchard with Theresa Blanco, "Great" Dane Transue (PESA), Christine Verdi, Tom Pankratz (DMS), Ross Elliott (DMS), Fred Fries, Kevin May, Dianne Soccio, Michelle Molchan + Brian Green, April Rumfield, "Host Extraordinaire" Jim Van Fleet, Diane Beckman, and the pooches. ....

It was an excellent day of collecting for this special invite trip to Mt. Pleasant Mills Quarry. Following Eric Stahl's tip of recent blasting having opened up an area containing Celestine and Strontianite veins, we made sure to arrange a quick trip before the material would find its way to the crusher. Eric Jr. was a huge help with a drilling crane - type machine that skillfully dissected several enormous boulders.

Celestine, Strontianite, and Calcite were the main collected species this day, and folks found outstanding examples of each. Ron "Chiselbuster" Schulz got the prize for the best Celestine crystals find. "Lockout" Mike Capurso won the best / largest Calcite crystals find for the day. Also, several folks including Derek Yoost, Mike Capurso, Ron and others, found excellent Strontianite crystals, with characteristic spiky ball appearance. Blg thanks to Jeff "Bald Eagle" Wilson and Mike "the Pie Man" Dunton for serving as Trip Leaders in the Hog's absence!!

Following the dig, it was outstanding BBQ Cookout and garage collecting at the "Host Extraordinaire" Jim Van Fleet residence in nearby Mifflinburg. All manner of hot dogs, burgers, sausages, great homemade Chili and baked beans, deviled eggs, potato salad and all kinds of fixins, watermelon, cookies and treats, were present in abundance; and it wouldn't be complete without several Ard's Farm Market Pies !!

I myself went home with a whole Apple Pie! And the garage collecting was terrific as usual. Lots of flats were hauled out. I personally witnessed several Club members making multiple trips to and from, with flats each time!! We cannot thank you enough Jim and family!

-----  
**Field Trip Report: Hewitt Gem Mine, Haddam CT**

**Date: Sun. May 30, 2021**

Members of FM-NJ and NoJMS in attend: Ryan Klockner, Jess and Jaura Jacobsen, Andrew Kreugel with dad Marty, Dusty Sodon with husband, David "Nock Man" Nock, EFMLS President; Laura "Ghostbuster" Schmeltz, Kimmy Brancato, "Super" Nicole Rios, Suz Jamieson-Shaw with Ja Shaw and Nathan, Nina Kiliszek, .....

The rainy weather did not put a damper on the spirit of collecting for this trip! Mine owner Tony gave us plenty of advance warning of the impending lousy weather, and the attendees definitely paid heed with full rain gear.

Neat specimens of Beryls (Aquamarine and green), Tourmaline (Schorl and Elbaite), Feldspar (Amazonite and Albite), Quartz (clear and smoky), Garnet, and other associated pegmatite minerals were found by numerous attendees. Jess Jacobsen got the "Best Beryl" award with his gemmy green find; however Ryan "Klock Man" Klockner wasn't far behind with a few of equal size but not gemmy. Numerous Schorl and Elbaite Tourmaline finds were made, and of varying sizes. Ryan also managed to find some off - colored Amazonite crystals with smoky quartz, making for a nice classic combo! Nina K. found a resident Bullfrog amongst her rock breaking. Other neat finds were had by all, and everyone really wants to return soon !!



## PACIFIC NORTHWEST CHAPTER UPDATE

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

Greetings All,



Rockhounding season is here and there is an increased mineral interest evolving here in the PNW. I frequently visit many different social media avenues and collectors are out getting their hands dirty. Personally, I have already done my first collecting trip of the season at Peterson Mountain (Hallelujah Junction). The photo below shows one of my favorite finds from the trip.

There are lots of activities in work... I am working to organize a few collecting trips and our annual WA Pass Clean-up at Klipchuck Campground is looking like it will be scheduled in Early September. Stay tuned for details regarding these topics.

Symposium 2021: African Minerals, will be on October 16<sup>th</sup> and conducted virtually again, along with a virtual display (you can reach out to Julian Gray if you are interested to be a part of the virtual display). I am still looking to hold a hybrid symposium which would include both in person and virtual opportunities, but this appears to be a vision

for 2022 due to covid19 conditions.

I am excited to see all the great things you find this collecting season and please, share your findings through this newsletter. It is the perfect avenue that can be utilized more. Stay safe and happy rock collecting!

Toby Seim - President - PNWFM



## PENNSYLVANIA CHAPTER UPDATE

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

Long-time Friends of Mineralogy - Pennsylvania Chapter President Joseph Marchesani resigned from that position in April. The Chapter is grateful for Joe's seven years of productive work in that position, one notable aspect of which was organizing our symposium every year.

The Chapter Board of Directors has now elected Bill Stephens, PG, as President. He looks forward to working with the Board; planning for the November 6, 2021, symposium and field trip is underway, as well as investigation of expanding our field trip possibilities and increasing our membership.





## SOUTHERN CALIFORNIA CHAPTER UPDATE

Our Southern California Friends of Mineralogy Chapter has not engaged in any formal symposiums and/or field trips since the fall of 2019 due to COVID-19 pandemic restrictions. Our scheduled program for Searchlight, Nev in spring of 2020 was canceled in March 2020 with the closure of all state facilities in Nevada by its Governor two weeks before our planned program.

As we reported in June a year ago as the COVID-19 pandemic with its lockdowns was taking effect, we canceled our normal fall 2020 program and as the year closed we found ourselves in California being restricted from any gatherings inside or outside by Governor Newsom. We had hoped to resume field collecting this spring, but alas that wasn't to happen as lockdowns persisted.

After we canceled this spring's program our planning allowed us to Zoom away with officer and board member meetings to focus on this next fall in mid October. The 78th Annual Searles Lake Gem O Rama has canceled for this fall already for its traditional 2nd weekend of October program due to CAL-OSHA restrictions and our traditional symposium program inside a nice meeting room on the 4th weekend of October has been shifted to the third weekend, and with no facilities available to us, we will be outside in the fresh desert air.

If our state actually opens up this summer without any hiccups we plan to conduct an "open air symposium" in the Cady Mountains, an area of the Mojave Desert between Barstow and the Colorado River border with Arizona. Dr. Gregg Wilkerson, a retired BLM geologist from Bakersfield, will be leading us on two days of field trips into the Cady Mountains north of Ludlow off of old Highway 40.

Barstow has a nice array of motels an hours drive from Ludlow or adventuresome folks can camp under the stars on BLM land north of Ludlow. Several of our officers and board members have checked out the desert roads the last two months to visit selected mines and outcrops with a variety of minerals. If you would like to join us on the weekend of October 16-17, mark your calendars now and we will provide flyers later this summer with a list of the minerals as we work out details with Barstow BLM offices for permits and overcome road closures.



## VIRGINIA CHAPTER UPDATE

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

*Dear Friends of Mineralogy,*

Summer is almost upon us, and things are already heating up here on the East Coast. We hope everyone is getting outside and finding some great minerals while also enjoying some refreshing nearby water sources! FMVA continues to maintain its focus on speaker series as we develop and refine the organization. Our chapter has hosted monthly events that are all posted on our YouTube Channel within one week of the talk.

We have an incredible list already planned for 2021 and we invite you all to join us! We just had Dr. Peter Megaw with us for an incredible presentation on Carbonate Replacement Deposits (CRDs) in Mexico! You can find it on YouTube [HERE](#). Outside of our incredible speakers, we are continually impressed by the audience who come from all over the USA and world to listen to our talks. We would have never imagined having such amazing support and engagement from the broader community within our first year as an FM chapter. Thank you!

FMVA initiatives are slowing down until we can access more members. Our main focus is our recent partnership with the state's transportation and construction alliance. In 2020, Virginia's nonmetal mineral mining produced over 72 million tons of construction and industrial aggregates, at a direct value of over \$1.1 billion. Members of this alliance produced over 93% of this material.

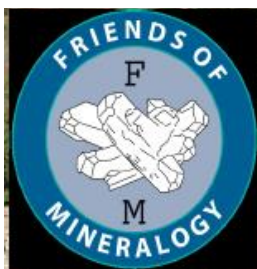
Gaining access and building relationships with this organization will allow us to work with quarries across the state to engage the public and improve industry-collector relations. We plan to assist the organization this fall with a state-wide rock kit distribution ("VA Rock Day") for teachers across the state. Our goal is to also work on creating display cases with the industry to promote their product while also putting up minerals and materials from FMVA into the schools across the state. This partnership is in its humble beginnings, but we are looking forward to building one of the first true relationships with the industry in our state.

FMVA has also recognized that we need to have in-person events for our local community. While our outreach and support extends across the USA, we want to have a community environment for our members who are local. On June 19<sup>th</sup>, we will be having our first rock-swap and hangout event at a local brewery here in Virginia. Our treasurer, Tom Girton, used his connections to get us a view overlooking the lake and plenty of tables to open up mineral boxes and share some great stories over wine, beer, and whiskey! We are excited to have this first event and will be working on local events in addition to our national speaker series and outreach.

The Virginia Mineral Project has been maintaining the "Virginia Rockhounding" Facebook group that now has over 7,500+ members across the state! Our goal over these next few months is to create some marketing information to get new members from this incredible pool of like-minded rockhounds. Please reach out to us if you have any questions or would like to collaborate with our chapter. We welcome everyone and would love to have FM chapter representatives from all the other chapters in FMVA!

**Thomas Hale**, President ([virginiamineralproject@gmail.com](mailto:virginiamineralproject@gmail.com))

**Alex Venzke**, Vice-President ([alex.venzke27@gmail.com](mailto:alex.venzke27@gmail.com))



## **NATIONAL MEMBERS "AT-LARGE"**

**Your Report could be here!**

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

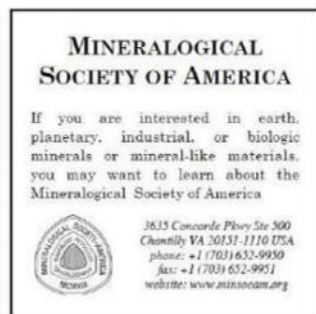
**Needs, wants, comments?**

## 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](http://www.MineralogicalRecord.com).



Mineralogical Association of  
Canada



mindat.org



**Mineral News**  
*The Mineral Collector's Newsletter*