The Fluorescent Mineral Society

UV Waves

Volume 52, Number 6 | NOVEMBER - DECEMBER 2022 | Magazine of the Fluorescent Mineral Society, Inc.

QUANTUM STATES OF THE FMS

By Philip S. Neuhoff, #2120, for the FMS Board of Directors

The Fluorescent Mineral Society just enjoyed a remarkable year. The gathering in Tucson for the 2022 TGMS meeting was truly spectacular, and not just because of the amazing hall of fluorescent exhibits that members and friends brought from around the world. That the FMS is an international organization means that many of us know each other only from reading *UV Waves* or, posts on the FMS Fluorescent Minerals Facebook Group (https://www.facebook.com/groups/fluorescentminerals). The great attendance in Tucson changed that for many of us; many FMS members, young or ancient, newbie or veteran, took part in not only the TGMS show but also the Facebook Group meetup, and at the annual FMS meeting. The group of volunteers led by Al Liebetrau, who are otherwise too numerous to mention individually in this short note, who made Tucson 2022 happen deserves yet another round of applause (and sadly, I am writing this after just learning of Al's passing…RIP, our friend). The continued success of the FMS requires that we stay connected. With members around the world that often means that such connections are made and maintained in the digital realm. To that end, last year FMS launched its revamped website (www.uvminerals.org) largely through the efforts of our website administrator, Simone Conti. Content on the website will always be a work in progress, but the new functionalities already implemented, such as electronic dues and donation payments, a member's directory, and hyperlinked contact addresses are already making a difference. If you have not already created a member account on the website, please do so, as it provides access to great member benefits, like an archive of *UV Waves* and a (temporarily partial) archive of the *Journal of Fluorescent Mineral Society*. The publications of the FMS (Waves and the Journal) continued to be one of the greatest member benefits last year (admittedly, I am a bit biased as Chair of the Publications Committee and Editor of the Journal; kudos to Editor Howie Green and Kelly McJilton, Production Executive, for their work with Waves); both brought great informative content to the membership and further established FMS as the premier source of cutting-edge information on mineral luminescence.

The successes of the last year could not have come at a better time, as technology and happenstance have greatly increased interest in mineral fluorescence. We are all well aware of the revolutionary impact the UV-emitting LEDs are having on our hobby. By now most of us have multiple LW LED flashlights (and perhaps display lights), and the recent availability of SW and MW LED's promised continued improvements to the accessibility of both the hobby and technical aspects of fluorescent minerals. This revolution comes at a time when interest in rocks and minerals is at an all-time high, perhaps somehow driven by the isolation due to the recent pandemic. The availability of inexpensive but highly functional LW flashlights led to new discoveries of

In This Issue

Quantum States of the FMS	1
Treasurer's Report	3
Chapters Reports	4
Publications and Website Committee	13
FMS Hall of Fame and Outreach	15
In Memory of Al Liebetrau	16
Would I do it again? Fools step in…	17
Sustaining Members, Patrons, Leadership	19

© Copyright 2023 by the Fluorescent Mineral Society, Inc. All rights reserved. The FMS provides this publication strictly for the private use of its members. Except for brief citations for which appropriate credit is given, no part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the Fluorescent Mineral Society. Other non-profit organizations are granted permission to use the material published in this issue provided that its sense or meaning is not changed and proper credit is given. The FMS does not endorse any vendor or product mentioned herein. "The Fluorescent Mineral Society is a 501 (c) (3) non-profit Scientific - Education Public Charity organization. This means, the FMS can receive tax deductible bequests (gifts, donations, etc.) per IRS Code Section 170. If you would like to make a donation, please contact Andrew Silver, FMS 501 (c) (3) Chairman at andrew@uvminerals.org for more information.

fluorescent minerals in unexpected places, spawning media interest and enhanced awareness of our hobby. The increased interest in fluorescent minerals is also evidenced by inquiries that FMS receives through its website from a wide variety of interests. Clearly there has been no better time for FMS to expand its reach and exposure.

The successes and shortcomings of FMS both rest on recruiting of volunteers. The various successes I noted above all came about due to the dedication and hard work of fellow members who volunteered their time and talents to the society. A lot of the behind-the-scenes work that keeps FMS operating happens because of the volunteer officers and Board that serve the FMS. For those members that live in a region served by one of our geographic Chapters (or participate in the Facebook Chapter or the Research Chapter), it makes sense to be in contact with their Chapter leaders, who put in their time to provide opportunities for regional meetups, collecting trips, and other activities. One reality of FMS is that much of the good that comes from the society happens through the efforts of a small percentage of our membership. I hope that in the coming years we can expand the group of active volunteers to increase our reach and the enjoyment of fluorescent minerals. Here are some examples:

1) Being a Chapter leader is rewarding, but putting on events takes a lot of effort. Contact your Chapter leader (email addresses listed on the last page of Waves), find out what events are coming up, and help them to provide these resources for members (or take initiative and propose and organize events).

2) As our website continues to grow and improve, content is needed particularly on the educational side. Those with expertise in this area can help by providing content.

3) Members with graphic design skills are always in need. To keep costs down, FMS members often do layout for our publications and promotional materials ourselves. We could really use some professional help!

4) Promote the FMS at your local mineral clubs or other relevant organizations.

5) Provide articles for Waves or the Journal.

6) Consider running for an office or the Board of directors.

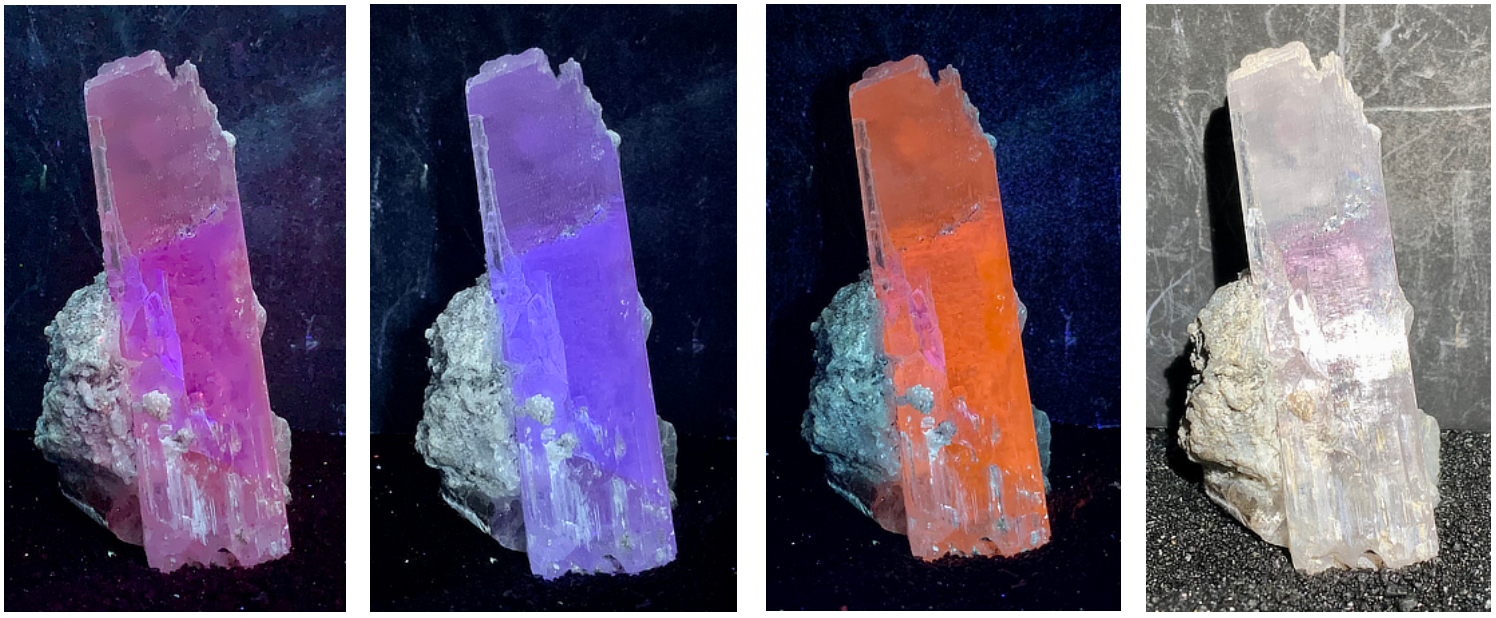
Unlike many in FMS, I am a late-onset fluoresophile. I always had a few fluorescent samples and some cheap lights, but that was it. Some events a few years ago piqued my interest in fluorescence, and I joined the FMS to learn more. I stayed in the FMS, and ultimately got more involved because of the people I met and became my friends. I certainly have enjoyed my time in forums like the Facebook Group and have learned a lot there, but it is more personal interactions that kept me coming back. My greatest hope for the coming year(s) is that we can increase the opportunities to meet up, break bread, hunt rocks, and enjoy our shared interests. Let's keep the spirit of Tucson 2022 going!



"Don't leave home without it."



Al



Standard spoils for the Multi-Wavelengthed Fluorescophile sophisticate. Spodumene, var. Kunzite, from Paprock, Nuristan, Afghanistan. About 3" long. In SW UV, MW, LW and white light. Howie Green, specimen and photos.

TREASURER'S REPORT

By Andre Silver, Treasurer, #2291, andrew@uvminerals.org

The FMS began the 2022 calendar year with $12, 448.27 in our checking account, and ended with $13,096.25 –showing a profit of $647.98 for the year. We maintain a fairly static amount of funds in our savings account -$4586.14.

The FMS, a 501(c)(3) non-profit organization, has three (3) tiers of membership (uvminerals.org/membership): Basic ($25/cy); Patron ($75/cy) and Sustaining ($150/cy), which currently serve as our primary source of income ($12,405.03). We often receive donations ($228.50); conduct auctions ($1475.00) and sell publications ($93.00) to supplement this income stream.

Our fixed expenses include the generation, printing, and publication of our yearly (or bi-yearly) *Journal of the Fluorescent Mineral Society* ($5,543.08) and the formatting and publication our bi-monthly, e-magazine *UV Waves* ($503.74). In addition, we have Website, PayPal ($557.83) and PO Box fees ($216.00), as well as expenditures for supplies. Our total receipts for the 2022 calendar year totaled $14,817.63, while total expenses equaled $14,169.23. The majority of our additional (non-fixed) disbursements were related to FMS attendance at the TGMS Tucson Gem and Mineral Show, where we held the FMS annual meeting and celebrated our 50th anniversary (belated) with the presentation of numerous fluorescent mineral display cases in an event billed as "The Show That Glows," ($6,427.34).

The FMS would like to acknowledge and thank Ms. Kelly McJilton for her efforts in the execution of *UV Waves*. Without her dedicated efforts, we could not publish this much anticipated, well-written and received e-magazine.



CHAPTERS REPORT

By Philip S. Neuhoff, Vice President, #2120, chapters@uvminerals.org

Although the mission and membership of the FMS are truly international, the FMS constitution provides for Chapters that allow members in different geographic regions to enjoy a more local opportunity for events, networking, and organizing to promote the mission and objectives of the Society. Chapters form when six or more individual members petition the FMS Board. FMS members may belong to more than one Chapter if they are active. Somewhat controversial is that a Chapter member need not be an FMS member. Currently there are eight geographic Chapters, covering regions of the United States and Canada (Southwest, Rocky Mountain, Northwest, Southern California, Northern California, Northeast Region Fluoresophiles, and Midwest), along with the European Fluorescent Mineral Circle. In addition, there are two non-geographic Chapters based on common interests of the members; the Facebook Chapter, which brings together members who participate in the "Fluorescent Minerals" Facebook group, and the Research Chapter, which discusses, organizes, and conducts technical research on topics relevant to the Society. Organizing efforts are underway for additional regional chapters, and the FMS Board encourages such activity. The Photography chapter is currently dormant, and awaits interested members for resurrection.

Active regional Chapters serve critical roles in promoting the mission of the FMS. Some Chapters hold periodic (often annual) gatherings with talks, swaps/sales, collecting trips, and other activities that provide opportunities to meet other members and enjoy the hobby and science of fluorescent minerals. Great recent examples are the annual NERF meeting, the Midwest Chapter Meetings (most recently held in Marion, KY), and Northwest Chapter meetings. Given the pandemic-facilitated rise in online meetings, some Chapters such as the Northern California Chapter have periodically organized virtual meetings that provide members opportunities to share their love of fluorescent minerals. Some chapters use periodic emails to keep members alerted to events and opportunities.

The FMS works hard to provide resources and opportunities for its members, such as its publications, website, and the annual meeting. But one of the keys for the Society to serve its members' interests lies with the Chapters. Having regular opportunities to interact, share, and learn is what most members want. Providing such opportunities within the Chapters takes time and commitment, and the FMS is profoundly grateful to those Chapter leaders who have given so much to do this. My hope is that all Chapters will be able to build on past successes and create new ones as FMS moves forward. Members, please consider offering your time and talents to your Chapter by contacting the Chapter's leader. If your region does not have a Chapter, we can help you get in touch with other members in your region to organize a petition.



Chris Clemens, Midwest Chapter President, kicks off the 2022 annual MW Chapter meeting

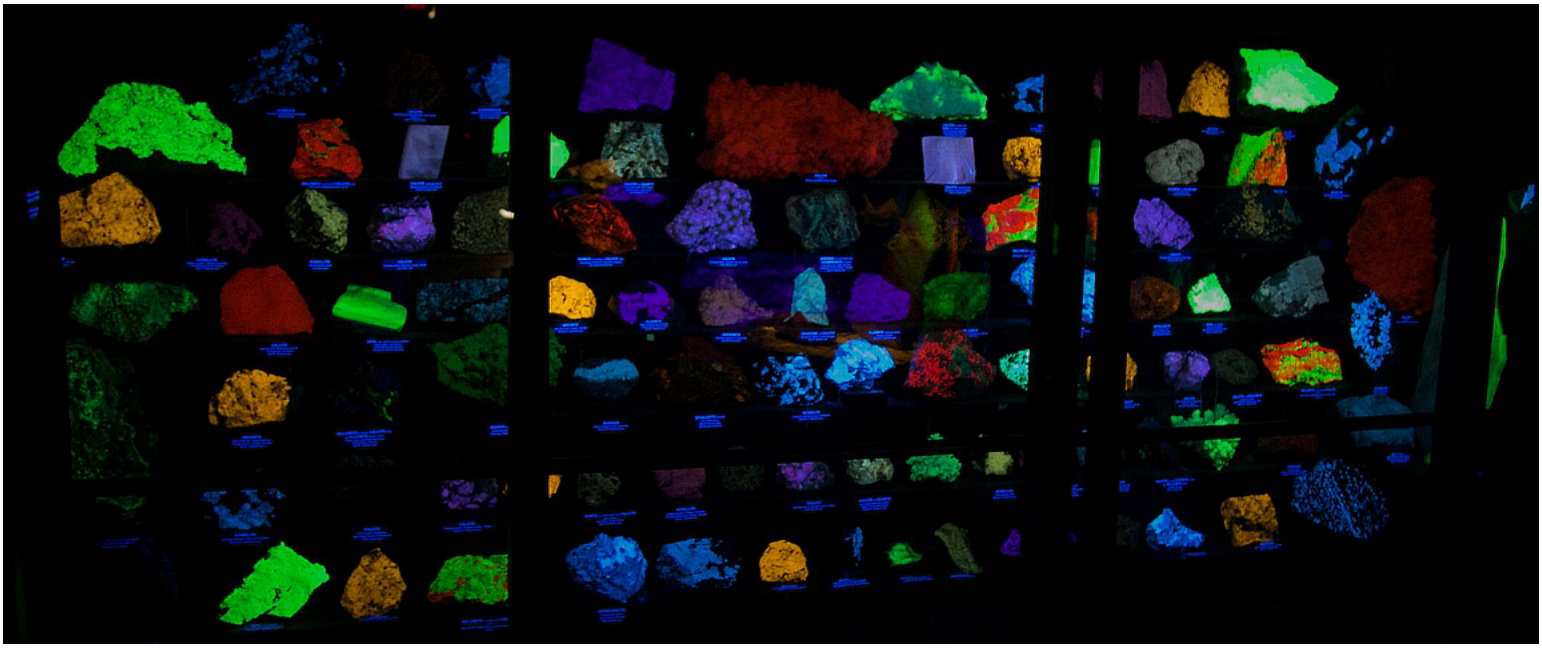
RESEARCH CHAPTER

By Philip S. Neuhoff, Vice President, #2120, research@uvminerals.org

The FMS Research Chapter is comprised of members from around the world that share an interest and inclination in addressing technical issues related to luminescent minerals. Due to the geographic distribution of its members, most interactions in the Chapter are via email. Among the roles the Chapter serves is to respond to technical questions brought to the Society. More fundamental to its mission is coordinating research between its members. An excellent example is provided by Chapter member Don Newsome's recent article on filter solarization that appears in the Journal of the Fluorescent Mineral Society. This study conducted by Don originated through discussions within the Research Chapter, and Chapter members assisted in acquisition and preparation of some of the filters. As the Chapter moves into 2023, the exciting new developments in LED technology are certain to lead to Chapter discussions and activities as we begin to understand the impact this revolution will have on the hobby.

NORTHEAST REGION FLUORESOPHILES (NERFs)

By Howie Green, #1164 and Lee McIlvaine, #801, co-Chapter Presidents, northeast@uvminerals.org



One exhibit in the Warren Museum of Fluorescence, the Official Museum of the FMS

So what is the NERF Chapter? The structure is a bit amorphous. Perhaps the best answer is to describe what the Chapter does (or did before the devastating consequences of COVID-19). We contribute to the viability of many special events and activities in the Northeast, the centerpiece of which is the NERF Ball. An informal FMS get together at the Sterling Hill Mining Museum of ten or so people has grown into an annual conflagration of over 100 live attendees, and countless non-geographically proximate members attending via our video stream. In addition to having access to the Thomas S. Warren Museum of Fluorescence, attendees enjoy a program which features three highly developed components. There is an all-day, frenzied sales and swap which features a tremendously valuable array of fluorescent minerals.



Specimen feeding frenzy at a recent NERF meeting

Many specimens are self-collected, others purchased at the major worldwide Shows. There is a scientific program that features four hour-long, high-level talks led by experts who travel to NJ or speak to our audience via Zoom (or whatever technology Lee masters for that day).



Shirley M. Mueller, MD, presents "Why Collectors Collect."

We're proud to say that we're interested in the effects of the entire electromagnetic spectrum on physical and biological systems. But in fact, all the great scientists who've delivered talks to us enjoy presenting. "How did you get this prominent speaker to come here?" "I just asked." A typical symposium program is shown here.

FLUORESCENT MINERAL SOCIETY MEETING

Saturday, December 1, 2018
9 AM to 4 PM at the GeoTech Center of the Sterling Hill Mining Museum, Ogdensburg, NJ

A PARTIAL LIST OF FEATURES:

Mark Weller, Ph.D., one of the world's leading materials chemists, will teach us that ***Studying Fluorescent Minerals Leads to the Design and Application of New Useful Materials.*** A display of tenebrescent minerals will accompany Mark's talk.

Harold "Fritz" Moritz has been studying the geology and mineralogy of Connecticut his entire life, and will take us on a tour of ***The Extraordinary Old Mine Park Area of Trumbull, CT.*** A display of scheelite from Trumbull and around the world will be on display.

Glenn Waychunas, Ph. D., will introduce us to the physical chemistry and physics of fluorescent minerals in his talk ***Luminescence Mechanisms and Timeframes, or What the Heck is Afterglow?*** One feature of Glenn's discussion will be sphalerite luminescence, so bring your best examples.

An illustrious and distinguished panel of well-known experts including **Dr. Steve Kuitems, NERF President Lee Mellvaine, and Dr. Bob Fendrich** will lead us in a serious exploration of ***What Am I Going to Do with All These Rocks.***

Ken St John will bring us up to date on the development of our field collecting branch, ***UVNomads.***

ALL DAY MINERAL TRADE-A-THON EXTRAVAGANZA!

The NE FMS Lunch Players will perform their usual culinary magic- $10
B.Y.O.Beer

RSVP REQUIRED FOR ATTENDANCE
E-mail Howie Green at howie@uvminerals.org

Typical Programming of a NERF meeting



Tema Hecht and Pat Hintz perform their first bris

The third component is The NERF Lunchtime Players, who provide wonderfully imaginative homemade fare from soup to nuts, to accompany gargantuan hero sandwiches.
The most gratifying aspect of these meetings is how ALL the attendees have voluntarily carved out a role for their own participation, a fabulous example of the whole being greater than the sum of the parts.
Over the years, the NERFs have infiltrated various ongoing events to the extent that it's hard to say where boundary exists. Ultraviolation is one such event. We'll leave it at that for now, as the latest Ultraviolation report will appear in an upcoming Waves.

NERFs regularly give presentations to local mineral clubs and schools, and have developed relationships with curators at various museums, and with faculty at various universities. NERFs from the Capital area have developed a productive interaction with mineralogists at the Smithsonian.

Another interesting development is the formation of a NERF side-branch, the UV Nomads, led by Ken St. John. The Nomads only have one activity- rock collecting trips. We've joined the EFMLS to be insured for our trips, which have mostly taken place in upstate NY and Ontario.

The next question, who are the NERFS, is also a little bit complicated, but the reality helps to clarify the policy that FMS Chapter members are not required to be FMS members. Here in the Northeast, there's a lot of competition for the membership dollar and what it buys. For example, I am a member of two local clubs, one on Long Island, and one in north New Jersey. I'm a member of the Franklin-Ogdensburg Mineralogical Society, a member of the two different museums there (the Sterling Hill Mining Museum and the Franklin Mineral Museum), and the collecting trip-only club, the UV Nomads. We want NERFs for their participation and certainly try to ultimately persuade them to join the FMS. But if not, at least they are active participants in NERF activities. So if we consider anyone who attends the NERF Ball or another NERF-related activity a NERF, we've got about 150 active NERFS instead of a fraction of that number if we only count FMS members.

The bottom line is that our goal is maximizing active participants, with FMS Membership being a secondary but desirable goal.

ROCKY MOUNTAIN CHAPTER - 2022 END OF YEAR REPORT

By Brian Walko, #2064, FMS Rocky Mountain Chapter Lead, brian@uvminerals.org

The Rocky Mountain Chapter of the Fluorescent Mineral Society is a small group of fluorescent mineral enthusiasts who come together for exhibiting at the Denver Gem & Mineral Show in September. In 2022 we also exhibited at the Tucson Gem & Mineral Show® and enjoyed the 51st anniversary meeting of the FMS. At local Gem & Mineral shows the Chapter usually adds a display case to promote interest in fluorescent minerals.

We offer to provide speakers and demonstrations to local Gem & Mineral clubs. Several of our presentations are Collecting Colorado Fluorescent Minerals, Collecting Fluorescent Minerals in the Socorro, NM area, and an Overview of Fluorescence.

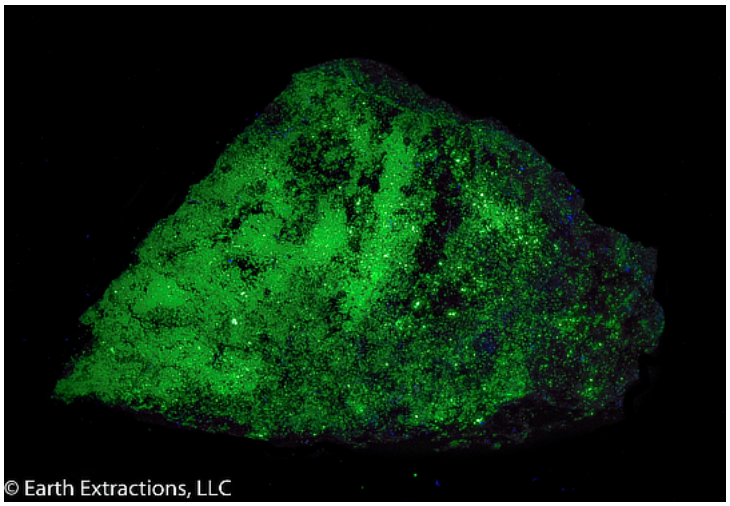
Due to the lack of liability insurance and private property restrictions, the Chapter can only run a few small informal nighttime collecting trips. The Emmett Mine (private) in Boulder County, Colorado is one of my favorite trips.



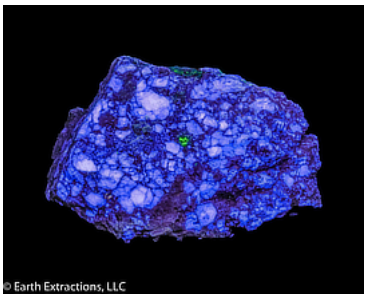
The Emmett Mine



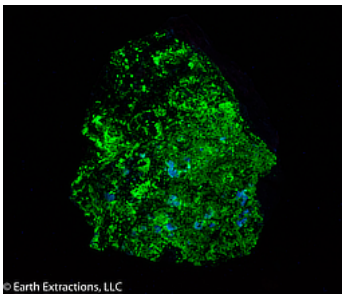
Into the abyss. Photo by Peter Modreski, #157



Autunite



Fluorite



Hyalite Opal

The Emmett Mine is a large glory hole containing fluorite, hyalite opal and autunite. A blue and green delight at night!

The Rocky Mountain Chapter participates in trips with other clubs that are insured. The featured trip for 2023 will be collecting fluorescent chalcedony in Northwest Nebraska with the Flatiron Mineral Club and Colorado Mineral Society during the first weekend in October.



Chalcedony beds



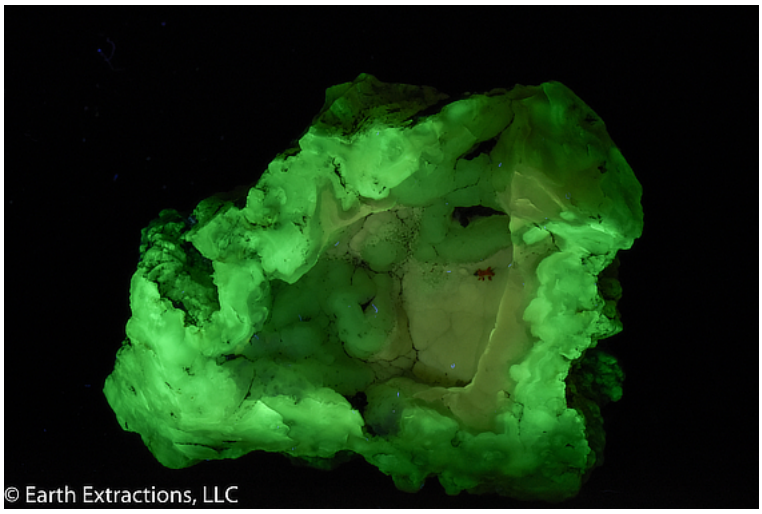
Chalcedony beds - white light



Chalcedony beds - short wave UV



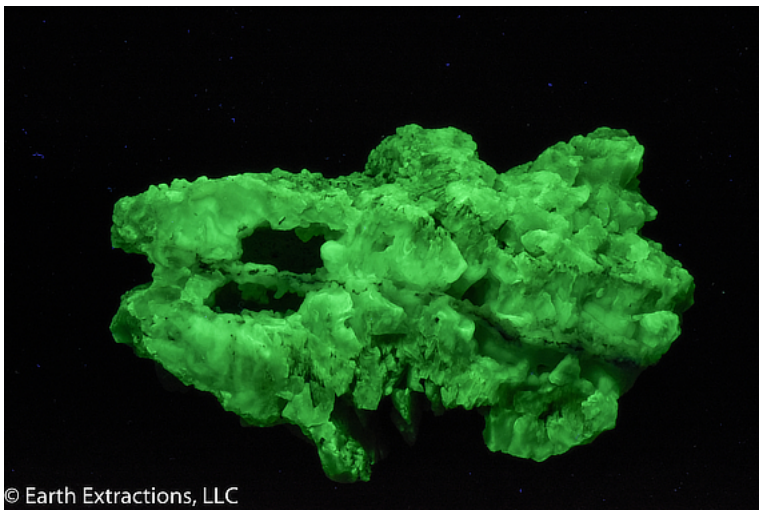
Geodic Chalcedony - white light



Geodic Chalcedony - short wave UV



Geodic Chalcedony - white light



Geodic Chalcedony - short wave UV

SO. CAL. COLLECTORS CHAPTER - YEAR END REPORT 2022

(**S**outhern **C**alifornia **U**ltraviolet **M**ineralogists)
David Stuck, #1653, david@uvminerals.org

The Southern California Collectors group exists as a very informal group. Our main activities are field collecting and occasionally getting together to share and trade specimens. Membership in the FMS is recommended but not required to attend our meetings and outings.

Our main goal is the exploration of our vast desert region and documentation of new collecting localities (there are over ½ million known mining features in the state of California).

"The Viewing of the Rocks"

Our premier event is "The Viewing of the Rocks", held on Saturday July 9, 2022, courtesy of James Horste. Chapter members may their latest acquisitions (purchased and/or self-collected), and then Buy, Sell, Trade, or Barter ensues. Visitors were treated to viewing world class museum specimens. Our "Viewings" typically occur after the Tucson Gem and Mineral Show and after enough time for our new acquisitions to be cataloged and evaluated, and surplus designated.

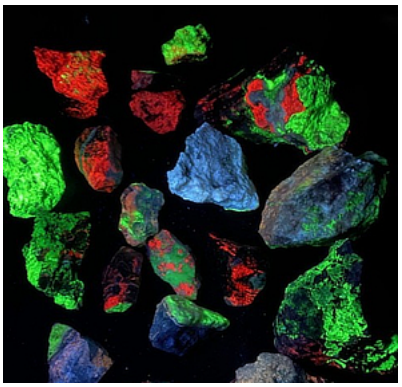
After the traditional pizza dinner, Raymond Wu gave a technical presentation bringing us up to the cutting edge of UV light illumination, mainly LW, MW and even SW UV flashlights. Raymond keeps up on the latest LED technology and builds his own lamps. Ray brought several prototypes of the new SW UV flashlights, including his famous Shortwave Light of Doom!

I gave a recap of the Chapter trip on May 14th, to the Benitoite Gen mine near Coalinga, California, and displayed recovered specimens. (A more detailed description below.)

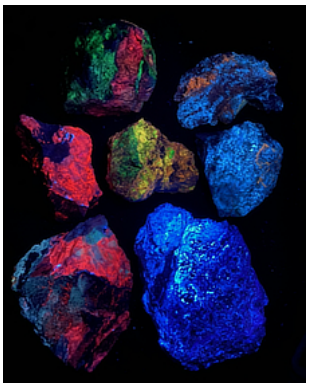
I gave a description of two collecting trips he and Corby Waste went on (photos below) since the last meeting. Both locations were in remote Inyo County areas of the Mojave Desert.

Four of our new attendees left at 9:00 (right after what Jim calls "social hour"), just when the main event was to start (rookie mistake). We proceeded downstairs to the "rock room" for the main viewing. Jim had several tables set up for us to display our finds. Located in the darkened Rock Room, Jim has a fantastic variety of high-quality minerals organized by location which we poured over for trading purposes. The Viewing finally ended at "midnight thirty". (Fluorescent minerals require darkness after all.)

We had fourteen attendees in attendance, including: Ray Wu, William Burt (and guests), Phyllis Wheeler, Eugene Beley, Jan Wittenberg, Corby Waste, Jim Horste, Claudia Mitchel, Marek Chorazewicz, Danny Sweeney, and David Stuck.



Calcite, hyalite, phosphorescent aragonite
David and Corby's trip to the Reward Mine, Inyo County
October 2, 2021



Calcite, hyalite, hydrozincite, caliche, traces of smithsonite.
David and Corby's trip to the Lee Mine, Inyo County
April 20, 2022

Chapter outing to the Benitoite Gem Mine

Randy Phelps, Laura Phelps, Christina Stuck and I left from Los Angeles on Friday, May 13, 2022. On Saturday morning at 9 am we met up at the "California State Gem Mine", a pay-to-dig site at a former Depression-era work camp, 15 miles northwest of Coalinga.

The world's only gem-quality benitoite is found at this location, which it the "type location" (first discovered). A couple of other small deposits are found in the same mountain range, but yield specimens of dismal quality and size. Benitoite is the State Gemstone of California and highly fluorescent.

The actual gem mine is up in the Clear Creek management area of the Diablo Mountains, and is overseen by the BLM. The Clear Creek unit is mostly closed to motorized vehicles (except for the mine claim owners) because of the naturally occurring asbestos hazard. Dave Schreiner, the owner of the property, brings dump truck loads of tailings 15 windy miles down Los Gatos Creek to his camp (a former prisoner work camp in the 1930's), where he has wash stations to process the tailings.

The process of searching for the gems is along the lines of shoveling tailings into a 1/8" screen, screening off the loose dirt with a series of quick shakes, then washing the screened material in a

series of three wash basins (we're talking serious mud) to clean off the clay to reveal the gravel. The gravel is then inspected to see if there are any pieces of white natrolite with blue benitoite partially exposed, or other loose gem stones (agate, jade, opal, garnet, etc.). After the visual inspection, the screens and coarse gravels are transported to the dark room which is provided to pick out the benitoite under SW lamps. The darkroom has been substantially upgraded since our last visit, with brand new UV Systems SuperBright-3 short wave lamps hard wired in.

There are two basic categories of benitoite, both displaying the characteristic and unique triagonal crystal shapes. These are called: "Stoney" and "Gemmy". Whereas the Gemmys are glass clear and deep blue, the Stoney's have fibers of amphibole (host matrix) included in the matrix which make them opaque to light and very difficult to distinguish from the native country rock. Both types, Stoney and Gemmy, fluoresce bright blue-white. The Stoneys don't fluoresce in LW UV, whereas many or the Gemmys fluoresce red.

The other gem quality benitoite that occurs here are natrolite and neptunite. Other fluorescent minerals are known to occur in the deposit (all but benitoite are rare): actinolite (orangey-yellow fluorescence), albite (red), analcime (green), apatite (orange), aragonite, calcite, diopside (blueish-white), fresnoite (blueish-yellow), jonesite (TL) (orange), natrolite (green), and vesuvianite (orange).



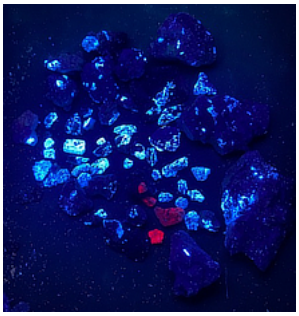
A large Gemmy benitoite, the find of the day!

You get to keep everything that can fit into a sandwich baggy. For anything larger, a price is negotiated. Individual benitoite crystals are rarely larger than ¼ inch, so that is a lot of crystals. In addition to the small Gemmy crystals, we look for larger stones with a druse of small Stoney crystals for display box purposes.

At the end of the day, mine owner Dave Schreiner looked through our bags of finds. Although our Chapter members didn't have any finds of great value, one of the other guests in a separate party did find a gem quality crystal that Dave estimated at $400 (after cutting and polishing). My own finds were limited, consisting of a couple of small 1/8 to ¼ inch triangular Stoney crystals, and a few chips of gem material. None the less, all four of us ended the day tired and happy, vowing to return.



Tailings pile and wash stations



Typical finds, primarily Stoneys. The red fluorescing mineral is gem-quality albite



Example of a large "Stoney", in the mine store, exhibiting classic triangular crystal shape.

FMS FACEBOOK CHAPTER REPORT

By Mark Cole, #1322, markcole@minershop.com

The Fluorescent Mineral Facebook group https://www.facebook.com/groups/fluorescentminerals was created about 14 years ago. I can remember the excitement when we reached 1,000 members, then 2,500 members and then 5,000 members. Today we are 10,300 members strong (with an additional 638 "visitors" - people who've posted or commented in the group, but haven't joined. Sadly, I did not kept records of our growth over the years. Perhaps this yearly Chapter update will now provide some kind of record of this growth (FB does not provide a way to go back further than 90 days).

But our growth has been phenomenal. More than that, the participation by people from all over the world shows our hobby is growing- the glow-word is spreading. With the relatively new longwave UV LED flashlights, affordable lighting is available to everyone. The recent introduction of shortwave UV and midwave UV flashlights has had a dramatic effect on the hobby and our growth. People new to the hobby just aren't accustomed to carrying around a fluorescent light and external battery; flashlights just seem more natural. The wide availability of various lights is a frequent topic of discussion for the group as more and more people are educated on the advantages of both flashlights and legacy tube lights. Educational topics such as these have contributed greatly to our growth.

Topics being discussed run the gamut; from pretty pics of rocks to detailed studies of UV fluorescence, spectrographic analysis, and infrared images. Lots of discussion about the new SW flashlights vs. legacy tube lights. MW flashlights have brought midwave to the forefront and the number of posts showing some amazing finds in this area bear this out.

A very common question to the group is "wazzit" posts. Usually with only a couple of UV pics, the community responds with guesses and explanations of tests the posted can run, more detail they could provide to help narrow down the identification of the unknown. Folks are learning and are now posting all the info they can.

Here are some basic factoids about the FMS Fluorescent Mineral Group:

- Average posts per day – 12
- Average number of comments per day – 100. Wednesdays seems to be the top day for interactions
- 10,268 members
- 14 years ago around 300 people, today over 10k members
- Most popular recent posts include many discussions on flashlights, LEDs, and filters, displaying/display cabinets, ID/locality help, and of course rocks and more rocks.

Observations:

- The quality of specimen images improved dramatically. Many of our experienced photographers are quick to help new folks develop the skills to take excellent photographs. The newer telephones on the market have also dramatically improved their "in the dark" capabilities. (Yeah, I know – cellphone. I still think of them as telephones).
- Lots of new people coming to the group from Europe and Asia. Our hobby's reach has expanded greatly.
- Fluorescent sodalite found around the Great Lakes areas has seemed to spark an interest beyond just "Yooperlites" in many people, and the publicity doesn't hurt. Our job is to convert these nighttime beachcombers to addicted fluoresophiles.
- We have 10k members, many of them very serious about the hobby. We need to improve our "capture and retention" rate, converting FB-only members to FMS members. We, as FMS diehards, should do our best to bring them into the FMS fold. One of the best things we can do for the hobby is to grow the FMS, expand on the educational outreach the society provides and the in-person connections made beyond social media.

Recent new features:

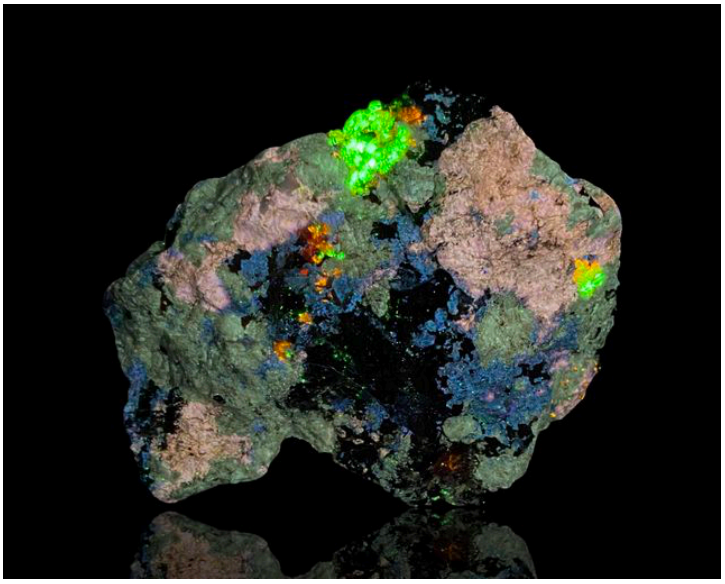
- Monthly posts are being made to remind folks of the Fluorescent Mineral Mart group as a place to buy/sell.
- Weekly posts are being made to welcome new members and steer them towards informational websites (Naturesrainbows.com and UVminerals.org)
- Monthly rules reminder that ours is a non-commercial group.

Looking forward to 2023

The FMS has a lot of very experienced collectors with vast amounts of knowledge to share. PLEASE take some time and make comments on a less experienced member's post. Your knowledge will benefit those just starting out in the hobby and ensure that knowledge is passed down.

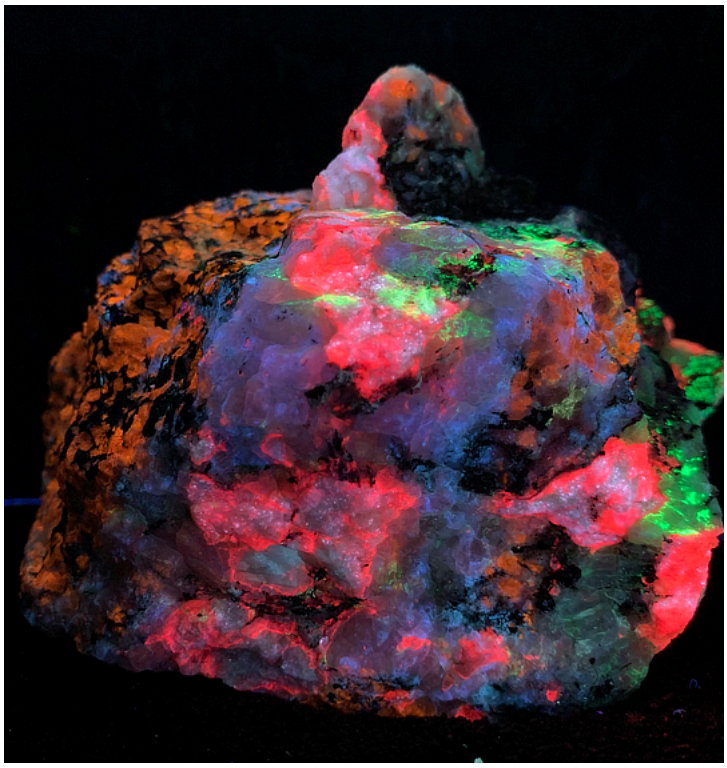
Help wanted! We need folks willing to contribute some of their time to be moderators of the group. Low hours, non-existent pay. But satisfaction helping the hobby grow….

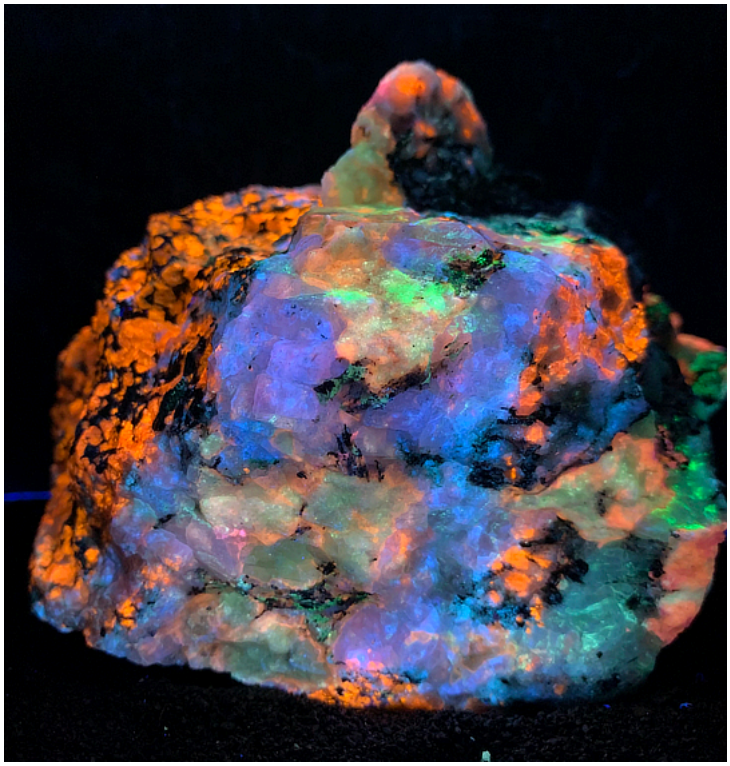
If nothing else, stop by and browse some of the excellent photos being posted, some recent examples randomly selected from the thousands of images that have been posted just this past year below:



Nasonite, xonotlite, willemite, prehnite, roeblingite, clinohedrite. SW UV. Franklin mine, Franklin NJ. Jon Allred, #1783 specimen and photo.

Editor's note: The Northwest Chapter and the Northern California Chapter are in the midst of leadership changes. The Midwest Chapter report is so extensive and excellent that I decided to give it a prominent place in the next issue of UV Waves.





Tugtupite, sodalite, chkalovite, and more! From Taseq west, Ilimaussaq complex, Greenland. 6" across. In SW UV and MW UV. Howie Green, #1164 specimen and photos.

PUBLICATIONS

Publication Committee- Philip S. Newhoff (Chairman), Kelly McJilton #2201, Conrad North #1904, Howie Green #1164

The Journal of The Fluorescent Mineral Society

By Philip S. Neuhoff, #2120, Editor, journal@uvminerals.org

The Journal of the Fluorescent Mineral Society has been a member benefit since the founding of the Society. Published on an annual or biennial basis, the Journal publishes original research and review articles related to mineral luminescence, UV light-generating technology and related subjects. Throughout its 39-volume history, the Journal has published significant contributions to the science of fluorescent minerals, including the Henkel Glossary and other compendia of luminescent behaviors in minerals. The most recent volume, published in Fall, 2022 contains two article that exemplify the contributions: an article by Don Newsome providing critical experimental data on the solarization behavior of filter glasses used in shortwave UV lamps, and a major treatise by Mike Crawford describing the fluorescent minerals from Sar-e-Sang, Afghanistan. Authors interested in being part of this great tradition are encouraged to contact the Editor at journal@uvminerals.org for further details. While the Journal continues to be a print publication, the FMS board and website committee are working towards providing a digital archive, as mentioned in the webmaster report elsewhere in this issue.

Once the full Journal archive is available, members will find a treasure trove of data on luminescent responses of minerals, insightful articles on practical applications of mineral luminescence, and great insights into the history of our Society.

UV Waves

By Howie Green, #1164, Editor, uvwaves@uvminerals.org

It's been a year of progress for *UV Waves*. We're electronic only now, and have been able to transition the content from a newsletter to a genuine magazine. So formally, call us "*UV Waves*, the bi-monthly e-magazine of the FMS."

The broadly-based content is scientific, educational and entertaining, and features information about the effects of the entire electromagnetic spectrum of energy on minerals, flora and fauna. *UV Waves* approaches these effects from the points of view of geology, mineralogy, chemistry, physics and biology. Typical subjects include the study of specific fluorescent minerals, important historical locations, and technical data about luminescence, methods of illumination and photography. We include reports of collecting trips and FMS Chapter activities. Special columns appear at regular intervals; the Query Quarry presents discussion by experts in response to questions from readers. Every Fluorescent Tells a Story (EFTAS) welcomes submissions about fascinating fluorescent rocks with interesting back-stories, accompanied by quality photos. Extended articles about special material appear in separate supplements.

Submission of material for publication, questions, and comments may be directed to uvwaves@uvminerals.org. Please contact us and become an active contributor. No submission is too long or short, simple, or complex!

The other spectacular development for readers is that the entire archives of *UV Waves* is available to FMS members on our website. Go to https://uvminerals.org/publications/uv-waves/

WEBSITE COMMITTEE REPORT

Website committee - Simone Conti (Chairman and Webmaster), James Horste #1500, Doug Bank #1831

By Simone Conti, #2288, simone@uvminerals.org

In the Summer of 2021, the FMS started looking for a new webmaster to take care of the FMS website. When I joined the FMS in 2019 my experience with the website was, let's say, not optimal. Having an account on the website was pointless, providing no additional benefits to members, the forum was very inactive and became non-functional shortly after, and quite a few pages were not up to date with the current state of the Society. So, when I heard the FMS was looking for a webmaster, I volunteered, and, shortly after, I started working on it.

One of the first main jobs was to update and replace the whole membership and dues system. That was a lot of work, and we rolled out the new system in August, 2022. While renewing now for 2023, you are using the new system. It is not without issues, and we are working to smooth and clarify the process as much as possible. Sorry for any hiccups! Contact me if

you have any problem. One big advantage of the new membership system is that we can now have "Members Only" areas. This allowed us to make available for download to members the full archive of the UV Waves, from the first issue in 1970, when Don Newsome created the "Fluorescent Mineral Society Newsletter (to be named later)" and announced the first FMS meeting. With the UV Waves archive as a working example, we extended to the FMS Journal. Now online you can find the table of content for all issues of the Journal, and a download link for the past five issues (volumes 35 to 39). Work is in progress for all older volumes. While on the membership topic, the website now has a membership directory, where you can search for FMS members living near you. The list is currently partial, only listing members with an account on the website, but will get more and more complete with time.

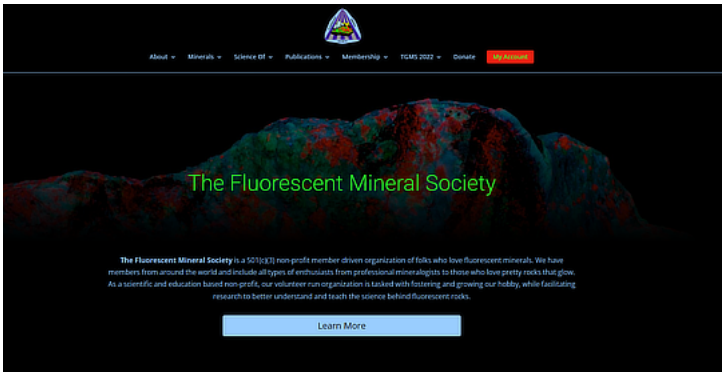
On a smaller scale, the "About Us" page was updated with the current list of FMS Officers, Directors, and Chapter presidents, the FMS Constitution, and the list of past presidents. We added a "News" page, together with a page dedicated to the FMS "Hall of Fame", which lists people who have made significant, influential, or outstanding contributions to one or more major areas of the fluorescent mineral hobby.

Possibly the greatest endeavor of the Fluorescent Mineral Society as a whole this past year was the organization of the fluorescent mineral display at the Tucson Gem and Mineral Show in February, 2022, where the FMS celebrated it 50th (+1) anniversary. In order to preserve memory and expose it to anyone who wasn't able to attend, a new section was added to the website with a couple of articles describing the event (reprinted from the UV Waves), together with photos of all cases displayed at the show. If you haven't yet, go take a look!

Obviously, all this work was not done by me alone. The FMS now has a small, but active, Website Committee, which regularly meets every month. Currently it is composed of me, Doug Bank and Jim Horste, with Lee McIlvaine, FMS president, as a regular guest.

While we were able to do quite some work this part year, much more needs to be done or is in the workings. For example, the most visited page on the website is the "Common Fluorescent Minerals" page, which could enjoy some revision and updating. Same for the "Gallery" page and everything under the "Science Of" heading. We also want to add more content, such as a list of museums displaying fluorescent minerals, and pages dedicated to all FMS chapters indicating their activities and contact information. Maybe also add a calendar for fluorescent minerals related events, and a glossary with an explanation of common terms (luminescence, tenebrescence, activator, …). There are also even bigger projects, such as creating an index for the Journal and UV Waves, but these will take a lot of time, resources, and organization. As you can see, a lot of these next projects do not strictly require only web programming knowledge but are mostly content driven. Maybe you can give us a hand?

If you haven't visited the website in a while, please drop in! If you find any error, or something that can be improved, or something that you would like to have added, or something you can contribute, let me know! No promises, but we'll do what we can.



FMS website homepage: welcome to the dark side!

https://uvminerals.org

Go take a visit! New or updated pages:

Homepage: https://uvminerals.org/

About Us: https://uvminerals.org/about-us/

Hall of Fame: https://uvminerals.org/hall-of-fame/

UV Waves: https://uvminerals.org/publications/uv-waves/

FMS Journal: https://uvminerals.org/publications/jfms/

TGMS2022 home page: https://uvminerals.org/tgms2022/

TGMS2022 fluorescent display: https://uvminerals.org/tgms2022/fluorescent-display/

Membership directory: https://uvminerals.org/membership/members-directory/

THE FLUORESCENT MINERAL SOCIETY HALL OF FAME

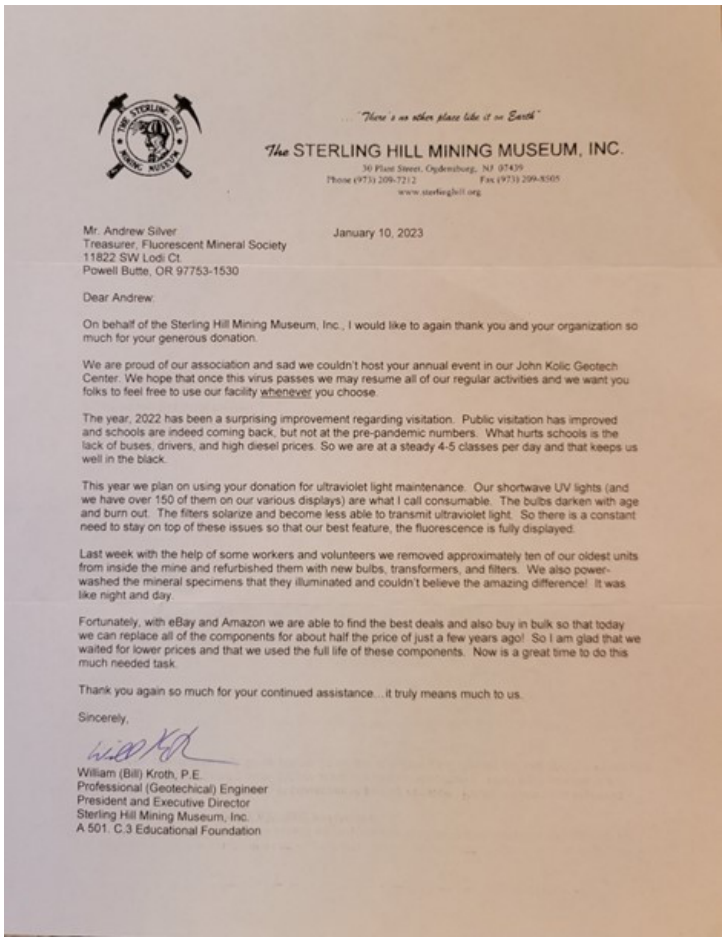
By Jan Wittenberg, #819, Chairman, FMS Hall of Fame Selection Committee, halloffame@uvminerals.org

The Fluorescent Mineral Society Hall of Fame was created to recognize and honor people and organizations who have made exceptional, long-term contributions to the understanding of mineral fluorescence and the fluorescent mineral collecting hobby. Inductees have made significant contributions in one or more facets of the fluorescent mineral hobby including education, outreach, research, or technological advancements. We have also recognized exceptional service to the FMS. Inductees are not necessarily members of the FMS, and some were nominated posthumously.

Past inductees of the Hall include, among others, Don Newsome, the founder and unwavering supporter of the Society, the FOMS (Franklin-Ogdensburg Mineralogical Society) for its ongoing efforts to better understand and educate the public about the minerals and history of the Franklin, NJ, mining district, and Tom Warren, the founder of Ultra-Violet Products, a developer of UV lamps, and an early dealer in fluorescent minerals.

The Hall of Fame is overseen by the FMS Hall of Fame Committee. The Hall of Fame committee consists of three rotating members who solicit and review nominations, and select the inductee(s). Nominations to the HoF are made by members of the Society. If you know someone who qualifies for the HoF you may nominate them by downloading the Hall of Fame Nomination Form from the FMS website, filling it out, and forwarding the completed form and any supporting documentation to the Hall of Fame committee.

FMS OUTREACH



"There's no other place like it on Earth"

The STERLING HILL MINING MUSEUM, INC.

30 Plant Street, Ogdensburg, NJ 07439
Phone (973) 209-7212 Fax (973) 209-8505
www.sterlinghill.org

Mr. Andrew Silver
Treasurer, Fluorescent Mineral Society
11822 SW Lodi Ct.
Powell Butte, OR 97753-1530

January 10, 2023

Dear Andrew:

On behalf of the Sterling Hill Mining Museum, Inc., I would like to again thank you and your organization so much for your generous donation.

We are proud of our association and sad we couldn't host your annual event in our John Kolic Geotech Center. We hope that once this virus passes we may resume all of our regular activities and we want you folks to feel free to use our facility whenever you choose.

The year, 2022 has been a surprising improvement regarding visitation. Public visitation has improved and schools are indeed coming back, but not at the pre-pandemic numbers. What hurts schools is the lack of buses, drivers, and high diesel prices. So we are at a steady 4-5 classes per day and that keeps us well in the black.

This year we plan on using your donation for ultraviolet light maintenance. Our shortwave UV lights (and we have over 150 of them on our various displays) are what I call consumable. The bulbs darken with age and burn out. The filters solarize and become less able to transmit ultraviolet light. So there is a constant need to stay on top of these issues so that our best feature, the fluorescence is fully displayed.

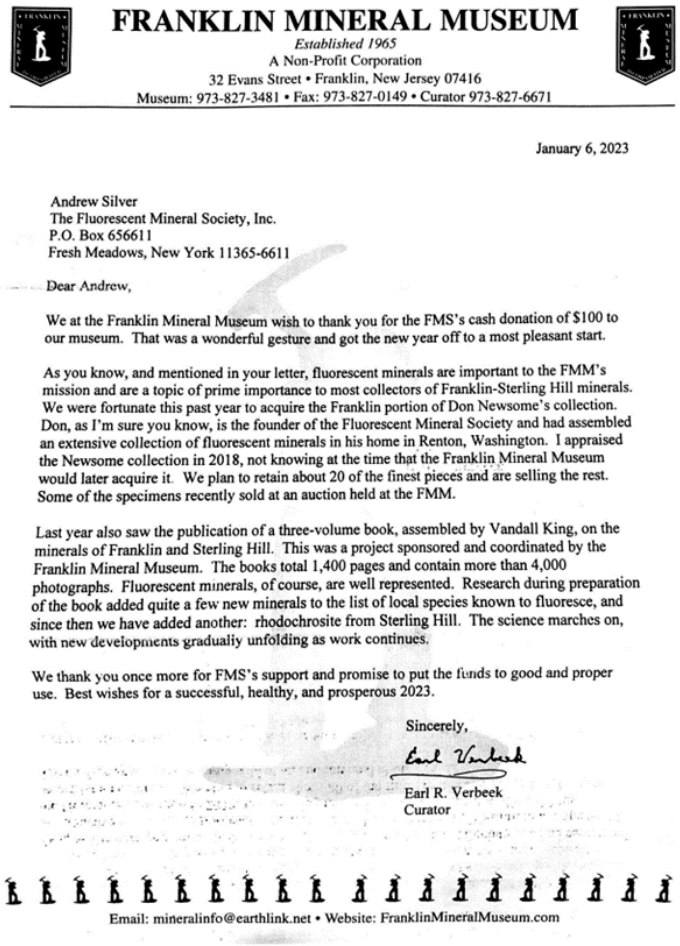
Last week with the help of some workers and volunteers we removed approximately ten of our oldest units from inside the mine and refurbished them with new bulbs, transformers, and filters. We also power-washed the mineral specimens that they illuminated and couldn't believe the amazing difference! It was like night and day.

Fortunately, with eBay and Amazon we are able to find the best deals and also buy in bulk so that today we can replace all of the components for about half the price of just a few years ago! So I am glad that we waited for lower prices and that we used the full life of these components. Now is a great time to do this much needed task.

Thank you again so much for your continued assistance...it truly means much to us.

Sincerely,

William (Bill) Kroth, P.E.
Professional (Geotechical) Engineer
President and Executive Director
Sterling Hill Mining Museum, Inc.
A 501. C.3 Educational Foundation



FRANKLIN MINERAL MUSEUM
Established 1965
A Non-Profit Corporation
32 Evans Street • Franklin, New Jersey 07416
Museum: 973-827-3481 • Fax: 973-827-0149 • Curator 973-827-6671

January 6, 2023

Andrew Silver
The Fluorescent Mineral Society, Inc.
P.O. Box 656611
Fresh Meadows, New York 11365-6611

Dear Andrew,

We at the Franklin Mineral Museum wish to thank you for the FMS's cash donation of $100 to our museum. That was a wonderful gesture and got the new year off to a most pleasant start.

As you know, and mentioned in your letter, fluorescent minerals are important to the FMM's mission and are a topic of prime importance to most collectors of Franklin-Sterling Hill minerals. We were fortunate this past year to acquire the Franklin portion of Don Newsome's collection. Don, as I'm sure you know, is the founder of the Fluorescent Mineral Society and had assembled an extensive collection of fluorescent minerals in his home in Renton, Washington. I appraised the Newsome collection in 2018, not knowing at the time that the Franklin Mineral Museum would later acquire it. We plan to retain about 20 of the finest pieces and are selling the rest. Some of the specimens recently sold at an auction held at the FMM.

Last year also saw the publication of a three-volume book, assembled by Vandall King, on the minerals of Franklin and Sterling Hill. This was a project sponsored and coordinated by the Franklin Mineral Museum. The books total 1,400 pages and contain more than 4,000 photographs. Fluorescent minerals, of course, are well represented. Research during preparation of the book added quite a few new minerals to the list of local species known to fluoresce, and since then we have added another: rhodochrosite from Sterling Hill. The science marches on, with new developments gradually unfolding as work continues.

We thank you once more for FMS's support and promise to put the funds to good and proper use. Best wishes for a successful, healthy, and prosperous 2023.

Sincerely,

Earl R. Verbeek
Curator

Email: mineralinfo@earthlink.net • Website: FranklinMineralMuseum.com

IN MEMORY OF AL LIEBETRAU, FMS #594

Editor's note;
The FMS and the rest of our extended family of mineral enthusiasts lost a true giant when Al passed away on April 29, 2023. (This issue of UV Waves is late hitting the newsstands.) Al was one of our few "cross-over" stars, being respected and loved on the dark side and by the mainstream mineral community.

I became close with Al as a result of his vision of strengthening the grassroots of the FMS, the members, and activities at the Chapter level. Constitutionally the FMS Vice President is responsible for facilitating the inter- and intra-Chapter functioning, and Al hoped that my work with the NERF Chapter would be translated to more Chapters and more active Chapters. So I agreed to run for VP, my only pre-condition being that I would never be President. A date that will live in ~~infamy~~ history. Our relationship was guided by Al's experience, wisdom, and patience in dealing with others. Plus he was a pretty fun-loving guy.

We'll be reading the traditional obituaries in all the important journals, so I thought that we might present something a bit different here. I had been working with (read "pestering") Al on putting together his thoughts about how the FMS participation in TGMS 2022 might affect our perception by the rest of the mineral community. We only made it part of the way on that effort, but what Al wrote is an eternally charming epitaph. RIP Al, and condolences to Sue.



Al and Sue

WOULD I DO IT ALL AGAIN? FOOLS STEP IN…

Albert Liebetrau, #594, al@uvminerals.org, former FMS Treasurer and President, Powell Butte, Oregon

Q: How did you get involved with minerals?

A: Who me? I grew up – if ever I did – on a small dairy farm about 20 miles (35 km) west of Madison, Wisconsin. It was on a glacial moraine. From my home, I could look West and see areas that were never glaciated. and I could look East and see areas that were once covered with a layer of glacial Ice and other debris that was nearly a mile thick. Each spring we drove through our fields with a stone boat[1] to pick up enough rocks so that we could better use our farming instruments. It was back-breaking work. If ever there was ever a candidate to get interested in rocks and minerals, it wasn't me.[2] But a combination of factors eventually prevailed and now you see me as the desperate pathetically addicted rock collector that I have become. First there was Sue, my wife to be. Her mother taught her to be interested in all things natural, especially rock collecting. She and her mother would attend meetings and field trips of the Madison Gem & Mineral Club.

There were of course other factors and events that contributed to my downfall, events such as sputnik, the interstate system, McDonalds, several good mentors, and my desire to see ever more of the world. We graduated shortly after Russia embarrassed the United States by beating us in the race to put the first satellite in space. This triggered one our periodic "woe is me; we're going to hell; we've got to improve our educational system" responses. So, per our usual strategy, we thew money at the problem. Many universities received National Science Foundation grants to offer "remedial" programs, a few of which were actually designed to lead to a degree. One was at Oregon State University (OSU) in Corvallis. Moreover, travel from the Midwest to Corvallis provided an opportunity to see more of the world.

At that time, the interstate system was only partially completed and chains like McDonalds had not yet grown to the point of occupying every street corner. As we traveled off the completed sections of interstate, we were always looking for convenient coffee recycling stops because they were few and far between. Moreover, there were no computers or cell phones,[3] so we had to stop at actual physical establishments. Of course, the practice of stopping occasionally was also encouraged by our natural recycling urge. More often than not, we settled on a rock shop. This was to be our activity for the next four summers. And as they say, "The rest is history."

Q: How did you get involved with fluorescent (UV) minerals?

A: Once I had become addicted, it was relatively easy to extend my addiction to include "those ugly black minerals" that became so colorful when subjected to a dose of UV light. And having several good mentors (enablers?) didn't hurt, either. (Well, it did, but in a different way!) During our OSU days, both Sue and I took teaching jobs in Elgin, Illinois, where we found a very active and encouraging club (ERAMS) that helped us develop an interest in fluorite, a natural for someone from the "fluorspar state." During academic breaks, we tried to meet some of the legendary dealers from the fluorite district, one of whom was Ben Clement. We wrote to Ben but he didn't reply. Why should he? He was busy amassing specimens for his museum-to-be and we were just a couple of kids from who knew where. Eventually, a senior member of the Elgin club introduced us to Ben, he invited us to visit, we accepted.

1) If you know what a stone boat is, you get an A+.

2) I must admit that we did occasionally find interesting rocks such as Lake Superior agates and copper that were carried South by the glaciers. I still own a 90-pound (200 kg) piece of copper that my grandparents found when they built the house that I grew up in.

3) No cell phones! Can you believe it?? How did life exist??

Ben took a liking to us, probably because we expressed enthusiasm when we learned of his dream, and visited Ben, his wife Nancy, and their daughter Sarah. It was a privilege for us to be allowed to handle some of his best specimens (to bad I didn't know more about photography) and especially to be invited for lunch.

Now, some, but by no means all, fluorite from the Illinois-Kentucky mining district does fluoresce. But fluorescent fluorite wasn't the show-stopper. Ben also had a liking for fluorescent minerals, and it was the Franklin-Sterling Hill material that Ben had acquired in exchange for fluorite that really caught our attention. We bought several specimens that are

still among the brightest in our collection. Ben would more readily part with UV minerals than fluorite because he was naturally saving his best fluorite for the museum. No matter – with those rocks and my new 4-watt light I could light the world!

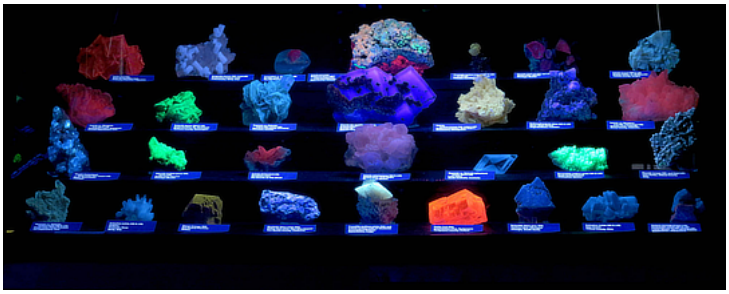
Q: How did you get involved with the Fluorescent Mineral Society (FMS)?

A: I don't really know. We occasionally saw promotions for the FMS. We moved to the Northwest (Kennewick, Washington) in 1981, where we joined the Lakeside Gem and Mineral Society (LGMS). Several members of LGMS, especially Don and Pat Snyder, were interested in fluorescent minerals I recall that at one show in Seattle, we met a fellow who wore thick glasses, had a slow manner of speech, and was carrying a UV light. His name was Don – I didn't remember his last name – and he encouraged us to join the FMS. We eventually joined as members # 594. Little did I realize at that time how very well Don Newsome and I would get to know each other in the years to come!

Q: What has been your role in the FMS?

A: For several years after I joined the FMS, I was one of the members of the silent majority. I enjoyed the UV Waves and the Journal, and I occasionally attended a meeting that concentrated on fluorescent minerals, but I was mostly a silent member.

That all changed when I innocently asked Don Newsome if the FMS ever held elections. Rod Burroughs was President and there had been no elections since Rod became President some number of years earlier. Don grimaced at my question and suggested that I look at the Constitution to see what it required. It was clear that we weren't even remotely in compliance with the Constitution, and further, that much of it was out of date and required updating. Don, Dick Bostwick and I, were eventually appointed to make revisions and we quickly decided that it would be best to start over. (To be continued) *(Editor's note- this is where Al left off. An outline follows.)*



Al's incredible display case from the Kelso meeting of the FMS and the FMM

Treasurer and Membership Chairman, and then President

Tucson 1996

Role: assisted with task of contacting museums to invite them

supply a case

served as a docent

Tucson 2022

My Role: general chairman, overall organizer: "I can do that!"

Little did I know that we would have to organize twice because of Covid and that we would have to prepare two setups because we didn't know until the last minute whether a newly constructed room at TCC would be finished in time

How we organized, intra FMS performance

took several attempts to launch, but worked very well

Support from FMS leadership was disappointing – improved during the last few months before the show

Collaboration with TGMS

Somewhat disappointing, we weren't allowed to help as much as we could have

Personal Stories (Cec, Marty, me)

What exceeded expectations? What unanticipated problems?

Covid delays

Preparation for two venues because of unanticipated construction at the TCC

Tucson 2046: What we learned from Tucson 2022

Recommendations for future "big shows," e.g., Tucson 2046 (possibly sooner)

Your Second Part: How do we go from here to entice and capture more fluoresophiles?

THANKS TO OUR SUSTAINING MEMBERS

Sustaining members make additional contributions that support the FMS (uvminerals.org) website, *UV Waves*, and other FMS activities. The FMS website contains links to websites and e-mails for our sustaining members. We thank you for your support. Please report any corrections to and omissions from your listing.

Donald E. Newsome #14 UV SYSTEMS, Inc. www.uvsystems.com	Nick Brown #2173 Engenious Designs, LLC nbrown.engenious@gmail.com	Erik Rintamaki #2191 www.yooperlites.com	Steven Shramko #654 Cyberocks & Minerals www.cyberocks.com
Valerie Cole #1322 MinerShop, www.minershop.com sales@minershop.com	James Simpson #1251 Tigerowner Minerals www.tigerowner.com	Chris Whittier #1502 Rocks in a Hardplace mcgotrx@rocksinahardplace.com	John Kashuba #1181
Don Litchfield #2518	Ed Raines #2301	Charles Grogan #1170 Arizona Ultraviolet www.azuv.com	Darwin D. Warriner #1128 Mineralman www.mineralman.net
Kevin Brady #463 Kevin Brady's World of Fluorescents (eBay) kevin.brady1961@yahoo.com	Nicholas Viltrakis #2526	James Horste #1500 jim@uvminerals.org	

THANKS TO OUR PATRONS

Patrons make additional contributions that support the FMS (uvminerals.org) website, *UV Waves*, and other FMS activities. The FMS website acknowledges our Patrons.

Dr. Ronald Duerksen #413	Kelly McJilton #2201	Arthur Moss #1461	Douglas Core #1457	Daniel Bissonnette #2353
Conrad North #1904	Trent Sullivan #2123	Harold Hintz #1723	David Stuck #1653	Michael Crawford #1869
Raymond Stryker #2028	Howard Rabinowitz #2089	Michael Harkness #2091	David F. Battin #983	Doug McLean #2100
Jonathan Allred #1783	Steve Scott #2224	Leland Green #2255	Catherine Burrite #2484	Rick Mott #2214
Diane Rose #2062	JA Zimmer #2407	Dan Snow #2373	Robert Fendrich #774	Patrician Morris #2488
Daniel Moore #1968	Gerald Rudisin #1772	Kevin McCarthy #2252	Pattie Rose #2239	Glenn Waychunas #665
Stephanie Koles #2136	John V Scherer #1366	Wayne Bailey #1744	Martijn Hendrikx #2356	Laird Fowler #1874
Jill Moring #2108	Steven C.Gebhard #1468	Philip Stauffer #2137	Belinda Miller #2146	Robert V. Ballad #433
Sandra Fuller #1063	Lynn Holdsworth #2371	Gary K. Cleary #1572	Wayne Sibilia #2398	Susan Marcus #1829
Thomas E. Callierate #1969	Charles L. (Lee) McIlvaine IV #801	Dr. Steven G. Caldwell #614	Ronald Grenadier #2505	Mike Havstad #2293
Mark Cole #1322	Phil Neuhoff #2120			

NEW MEMBERS

Art Schelling #2516	Leon "John" Crawford #2517	Don Litchfield #2518
David Morris #2519	Carrie Cahill #2520	Trevor Tremblay #2521
Gary Swinford #2522	Stephen Stuart #2523	Christian Rees #2524
Jeffrey Psych #2525	Nicholas Viltrakis #2526	José Zendrera Ferres #2527
Scott Fisher #2528	Rock Kauser #2529	Douglas Reif #2531
Clay Shumway #2532	David Sexton #2533	Stephen Skala #2534
Michal A. Sheedy #2535	Storm Sears #2536	Martin Stark #2537

FMS LEADERSHIP

Officers	President	Lee McIlvaine IV (2023)	president@uvminerals.org
	Vice President		
	Secretary	Pat Hintz (2023)	secretary@uvminerals.org
	Treasurer	Andrew Silver (2024)	treasurer@uvminerals.org
Directors		Bob Fendrich (2023)	bob@uvminerals.org
		Philip Neuehoff (2024)	philip@uvminerals.org
		Bruce Bannon (2025)	brucebannon@uvminerals.org
		Glenn Waychunas (2023)	glenn@uvminerals.org
		Doug Bank (2024)	doug@uvminerals.org
		Stephanie Koles (2025)	stephanie@uvminerals.org
Committees	Membership	Pat Hintz	membership@uvminerals.org
	Publications	Philip Neuhoff	philip@uvminerals.org
	UV Waves Editor	Howie Green	uvwaves@uvminerals.org
	UV Waves Production Executive	Kelly McJilton	kelly@uvminerals.org
	Journal Editor	Philip Neuhoff	philip@uvminerals.org
	Social Media Chair		
	Webmaster	Simone Conti	webmaster@uvminerals.org
	Nominating Committee	Howie Green	nominating@uvminerals.org
	Hall of Fame	Jan Wittenberg	jan@uvminerals.org
	Chapters Chair	Vice President	chapters@uvminerals.org
Chapters	Southwest	Rick Olsen	southwest@uvminerals.org
	Rocky Mountain (RMC)	Brian Walko	rockies@uvminerals.org
	Northwest (NWC)	Jennifer Moore	northwest@uvminerals.org
	Southern California (SCC)	David Stuck	southernca@uvminerals.org
	Northeast Region Fluresophiles (NERFs)	Howie Green	northeast@uvminerals.org
	Northern California (NCC)	Glenn Waychunas	northernca@uvminerals.org
	Midwest (MWC)	Chris Clemens	midwest@uvminerals.org
	European Fluorescent Mineral Circle (EFMC)		europe@uvminerals.org
	Facebook	Mark Cole	https://www.facebook.com/groups/fluorescentminerals
	Research (Res)	Philip Neuhoff	research@uvminerals.org

The FMS Board of Directors meets via teleconference monthly. All FMS members are welcome to attend Board meetings.
To do so, you must first contact a Board member to obtain the phone number and access code that directs you to our conference.

Visit us online: http://uvminerals.org

Follow us on Facebook:
https://www.facebook.com/groups/7350268570

Mailing address:
Fluorescent Mineral Society
PO Box 656611
Fresh Meadows, NY 11365