



UV Waves

Vol. 39 November-December 2009

Newsletter of the

Fluorescent Mineral Society

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President's Message:

By: Jan Wittenberg, President, #0819, West Hills, California

2009 is coming to an end and it is again time to look at where we are, and where we are headed over the next twelve months. It has been a productive year for the Fluorescent Mineral Society. As the year began we were still working our way out of problems with an inaccurate roster, problems with tracking dues payments, and difficulty getting out the UV Waves on time. Through the significant efforts of a number of dedicated FMS members all of these issues have been resolved. Albert Liebetrau, our treasurer has instituted procedures for accurately tracking dues payments, and updating the roster. Kevin Brady, our Waves editor and the Publications committee has succeeded in producing the UV Waves in a timely fashion, with each issue mailed well before the end of the due date. We have also reformatted the Waves, and shifted the mailing of the domestic Waves to a mailing service, relieving a small group of members from the laborious process of preparing and mailing out each issue. The Journal team, Karl Russ and Maryann Manning, put together another excellent Journal this year with original articles, and galleries with color photos of fluorescent minerals.

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Along with resolving these long standing issues we have moved forward on some of the projects that we felt needed to be undertaken to make the Society more worthwhile to our members. Our website now has working forums and blogs, and a gallery with mineral and locality photos. During the upcoming year Ed Anderson will be migrating the remaining items over from the old site, reworking the dealer list so that Sustaining members will have hot links to their websites and introductions to their companies, setting up a calendar, and continuing to simplify registration and navigation. Working together Ed and Al will be making the roster a live document on the site, accessible to the board members, and set up so that members can update their own contact information. An updated roster in a format similar to the printed in the Waves will be posted on the site making it easier for members to find each other. So far some 80 members and others have signed up on the site, and several have set up personal photo galleries.

More than a year ago it was decided that the technical heart of the FMS website would be a comprehensive listing of fluorescent minerals, the localities where they are found, and a photo gallery of as many of them as we can assemble. The core of this database will be the original file of fluorescent minerals assembled by Dr. Gerhard Henkel. The Henkel File project has reached the point where we need your help checking and correcting entries. If you have Excel on your computer, and a few hours to give to the society please contact Jim Horste for details on how you can help out.

Where do we go next? As president I would like to see committees to handle each of the societies vital functions, candidates for elections, a mineral of the month column in the Waves, a file of locality articles on the website, a searchable Waves archive, a narrated slideshow introduction to fluorescence, and a page more. What projects would you like the society to undertake? What projects are you able to help out on?

FMS BOARD MEETING MINUTES FOR OCTOBER 29, 2009

By: Jan Wittenberg, President, #0819, West Hills, CA

To Order: 7:30 PM

Present: Jan Wittenberg, Kevin Brady, Jeff Wilmot, James Horste, and David Stuck

Secretary's Report: No meeting last month.

Treasurer's Report: Ending Balance \$12,683

Old Business

Henkel Project OK'd text of a Waves article describing the Henkel Project, and asking for help with correcting the file entries. OK'd giving hard copy of the Henkel Glossary to members who offered to correct information in the Excel spreadsheets if they preferred that to using the scanned Henkel.

Sustaining Members will be listed in each issue of the UV Waves with contact information. We will again ask for company introductions from all sustaining members who have not sent us one and print 1 or 2 of them a month as they are received.

The board agreed to raise the dues for non US members who get a hard copy of the UV Waves by \$2.00 to cover part of the increase in mailing costs.

New Business

A printed dues reminder and tear-out will be in the November December UV Waves. The dues payment deadline will be moved to March 30th and mailing of publications to members that are not current will stop with the March-April UV Waves.

We will cease printing the Roster issue of the UV Waves, instead posting the updated roster on the Website in late April. It will be in the usual printed format. Hard copy rosters will be mailed only to new members, and members that request one. New member's listings and address changes will be published in the UV Waves.

Adjourned at 8:45 PM

FMS CALL TO SERVICE – VOLUNTEERS FOR HENKEL DATA BASE PROJECT

By: James Horste, #1500, jameshorste@earthlink.net, Woodland Hills, CA

For those of you not familiar with the Henkel Data Base Project let me bring you up to speed. In the 1980s Dr. Gerhard Henkel assembled a "data base" of information on fluorescent minerals. This consisted of over 2,000, hand written, 4 x 6 file cards. Each card covers one mineral and contains information on locations and fluorescent response. Rare minerals like Esperite, which are only known from one or two locations, have one card. Common minerals like Calcite, which are known from hundreds of locations, have over 200 cards. The FMS has photocopies of these cards and we call this the "Master List".

In 1989 this data was used to create the "Henkel Glossary of Fluorescent Minerals" which was published as a special issue of the FMS journal. The Glossary lists the names of the fluorescent minerals, their chemical formula, and a description of their fluorescence. This is just a tiny fraction of the information contained in the Master List. For instance, the Glossary has just one entry for Calcite that shows it can fluoresce in just about any color of the rainbow. In contrast, the Master List has 962 entries for Calcite and

gives the location and fluorescent responses for each one. The FMS has been patiently waiting over 20 years for the detailed information in the Master List to be made available.

Well we are getting close! The scanning of the Master List has been completed. The problem is this information is not in a useful order and is not searchable. The next phase of the project is to organize the scans. My plan is to use the "Henkel Glossary of Fluorescent Minerals" as an index for the Master List scans. Unfortunately the original computer files used to publish the Glossary have been lost to the ages. (Not sure what I would do with a floppy disc if I found one!) The only way to get this data back into the digital domain is to scan it and do character recognition. This has been completed (thanks John Smith!) and is about 99% accurate for words, 95% accurate for numbers and 0% accurate for chemical formulas with subscripts. I have put this data from the Henkel Glossary into an EXCEL spreadsheet so it can be easily manipulated and searched.

What we need your help on is fixing the words, numbers and formulas in this spreadsheet that did not get translated correctly. Volunteers will compare a section of the spreadsheet with the original Henkel Glossary and make corrections as necessary. We will be glad to send participants a free paper copy of the Henkel Glossary if they don't already have one.

If you would like to participate in this project please contact James Horste at jameshorste@earthlink.net

EDITOR'S MESSAGE

By: Kevin Brady, #0463, kbrady@cslanet.calstatela.edu, Rancho Cucamonga, CA

A short message from your Editor. Well we've finished an exciting 2009 for the FMS with some new ideas, initiatives and challenges facing us as we enter 2010. I hope everyone has enjoyed reading the UV Waves, and I look forward in making this publication even more interesting, but I need your help. While I might write a few articles or thoughts on my own, this publication relies on the input from everyone in the Society. Without that perspective the only thing you would be reading about are my exploits, opinions and experiences. Tell me how you started into the hobby of fluorescence, what places you've collected at, what shows you might have visited, or who you've spoken to regarding fluorescent minerals. These are all areas that add interest and credibility towards making the UV Waves a Society-wide publication. Send everything to me at kbrady@cslanet.calstatela.edu or ktbrady@iwon.com. Either address will get to me. Thanks and I look forward to those articles and appreciate your support.

As we enter 2010, be sure you have or are planning to pay your 2010 dues. It is very easy to do so online, through the website. Otherwise, send a check to the Treasurer at the address on the back of the UV Waves. The Society cannot continue to distribute publications, conduct Society business, or set in place improvements without that monetary support. Questions related to dues can be directed to the Treasurer, Al Liebetrau. Let's make 2010 a banner year for the FMS, and if you can make it try to attend the annual meeting at Tucson for the FMS (see announcement later in this issue), its well worth it!

NEW FLUORESCENT MINERAL – LALONDEITE $(\text{Na,Ca})_6\text{Ca}_3\text{Si}_{16}\text{O}_{38}(\text{F,OH})_2 \cdot 3\text{H}_2\text{O}$

By Karl Russ, #551, khruss@gmail.com, Ithaca, NY

A new mineral was reported in the Mineral News, Vol. 25, No. 11, Nov. 2009. It occurs in an altered breccia from the Poudette Quarry, Mont St. Hilaire, Quebec, and displays subhedral roundish plates up to 3mm across. Associated species are microcline, clinoamphibole, and narsarsukite. The crystals of Lalondeite are colorless, transparent with a pearly luster and exhibit a white streak. **Lalondeite shows a medium to strong violet-blue fluorescence under medium (mid-range?) UV light and a weak violet to violet-blue fluorescence under SW UV light.** The new mineral is brittle, has a hardness of 3 and a perfect {001} cleavage. There is no effervescence in 1:1 HCl at room temperature. The name honors Professor A.E. Lalonde, University of Ottawa, Canada.

SAVE THE DATE! FMS 2010 TUCSON MEETING INFORMATION

The 2010 Tucson meeting of the FMS will be in a new location this year. It will be held on Friday evening starting at 6:00 PM on February 12, 2010 at the:

**Church of the Painted Hills, United Church of Christ
3295 W. Speedway Blvd.
Tucson, AZ 85745**

Instructions to get to the church from the Tucson Convention Center are as follows:

From: Tucson Convention Center, 255 S. Granada Ave., Tucson, AZ 85701

1. Start out going NORTHWEST on S. GRANADA AVE. toward W. CALLE CARLOS ARRUZA. (go 0.2 miles)
2. Turn LEFT onto W. CONGRESS ST. (go 0.2 miles)
3. Turn RIGHT onto N. FREEWAY. (go 0.6 miles)
4. N. FREEWAY becomes N. I-10/N. FREEWAY ST. (go 0.5 miles)
5. Turn LEFT onto W. SPEEDWAY BLVD. (go 3.2 miles)
6. 3295 W. SPEEDWAY BLVD. is on the LEFT.

To: Church of the Painted Hills, 3295 W. Speedway Blvd., Tucson, AZ 85745

Total Estimated Time of Travel: 10 minutes (4.62 miles in distance)

There will be an evening meal provided by the church for a cost of \$5.00 to \$10.00 each/per person. Or you can bring your own food. You will also be able to sell specimens or items in the church. Those features were not available in the old location. BRING YOUR SPECIMENS TO SELL OR TRADE!

The FMS will have free door prizes with some special prizes including a SW *SuperBright II* UV light. The one coming the farthest gets the first choice of the door prizes.

FMS BOARD MEETING MINUTES FOR NOVEMBER 17, 2009

By: Jan Wittenberg, President, #0819, West Hills, CA

To Order: 7:50 PM

Present: Jan Wittenberg, Jeff Wilmot, James Horste, and David Stuck

Secretary's Report: Minutes of the last meeting accepted as read.

Treasurer's Report: No formal report due to lack of cell phone reception in the meeting room. Balance is roughly \$11,500.

Old Business

Reviewed and approved a revised Henkel Project Article and instructions for volunteers that will be correcting the text copy. Jim Horste will follow up on a comment by Richard Loyens that he has a "whole copy" of the Henkle file. This may account for a number of missing sections that are not in the file that the FMS has.

New Business

Sustaining members were sent printed certificates showing them as sustaining members and a letter reminding them that 2010 dues are due.

Axel Emmerman our VP for Europe has resigned for health reasons. He will remain active in the Society, but does not feel that he can continue with VP duties. He asked Paul Van Hee to take over the position and Paul agreed. The Board Voted unanimously to accept Paul's offer. With his resignation Axel made a number of comments and suggestions regarding how to improve the European part of the FMS. The board will be discussing and hopefully working out was to implement many of Axel's suggestions. Jan will contact Paul regarding the vice presidency.

The Board began discussions on projects and direction for next year. We would appreciate and suggestions that you might have. Numerous suggestions regarding website improvements were discussed.

The December board meeting will be held on the 15th.

Adjourned at 9:25 PM

2009 NORTHWEST REGIONAL FMS MEETING

By Ryan Brown #1683, brownfolk@comcast.net, Springfield, OR
Photos by John Erwin #1059, Grants Pass, OR



Benitoite & neptunite

With 30 members and guests present, the 26th annual meeting of the Northwest Region of the FMS was held Saturday, June 20 at the Rice NW Museum of Rocks and Minerals near Hillsboro, Oregon. One FMS member described the museum as "The most incredible thing ever." Prior to the morning opening meeting, members were able to tour the museum and grounds. Pleasingly landscaped in a forest-like setting, the former home of Richard and Helen Rice is on the National Registry of Historic Places. From the Rice's own collecting and contributions from other collectors, the museum contains displays including: fossils,

a renowned display of petrified wood specimens, meteorites, a fluorescent mineral display, a must see mineral collection (including the world famous Alma Rose rhodochrosite), and the Northwest Mineral Gallery (a separate museum building housing additional varieties of impressive mineral specimens).



Don Newsome, Pat Snyder, & Al Liebetrau



Viewing part of the petrified wood collection

At the 10 AM meeting, members shared when they were first introduced to collecting fluorescent minerals and anecdotes of experiences. Al Liebetau presented a wonderful photo presentation about his 2008 fluorescent mineral collecting trip in Greenland. He answered detailed questions about his trip and experiences. Afterwards members assembled on the front lawn in front of the museum for a group photo. Members then went to another building to trade and sell specimens in the dark. John Irwin made a presentation with valuable tips for displaying fluorescent minerals. Lunch was then enjoyed outside with the forested surrounding and with Anna's and Rufous hummingbirds and other birds frequently visiting bird feeders.



The members and guests that were there are: Joyce Brooks, Ryan Brown, Stephen Brown, John Erwin, Mark Erwin, Don Ferrel, JJ Johnson, Al Liebetau, Sue Liebetau, Steve Livingston, Lee McIlvaine, Kathryn Menzel, Tom Menzel, Roger Middlebrook, Alma Newsome, Don Newsome, Hollis Oxley, Priscilla Oxley, Dorothy Pease, Russ Pease, Doris Polter, Al Robb, Don Snyder, Pat Snyder, Andrew Thompson, Michael Thompson, Rudy Tschernich, Jerry Tumey, Greg Vanweerthuizen, and Tom Yard. The business meeting began about 2 PM. The main items of the meeting were the treasurer's report, a proposal for Region/Chapters, and a discussion of Region/Chapters and related issues. The treasurer's report included: the FMS membership has 320 paid members; membership is from January 1st through December 31st; on the mailing label is the date a members dues expire; and members can pay for up to three years in advance. Members reviewed a proposal written by Mark Isaacs that includes: duties of the Regional Vice-President or the Chapter President, term of office, and objectives of the FMS Region/Chapter. The members present approved a motion to "Recommend to the FMS these proposed duties for a FMS Regional Vice-President or Chapter President."



Much time was spent discussing the Region/Chapter topic and related issues. A current problem for The FMS is some non-functioning Regional Vice Presidents and inactive regions. Currently, FMS members attain membership to a specific region based on their geographic location. For those in the northwest region, the NW Regional VP is elected to a two year term. Some regional VPs were appointed by the FMS Executive Committee (via the FMS constitution) for an indefinite

time. A problem is that some of the Regional VPs are not doing anything for their region and because their term does not expire, these regions are currently inactive. The FMS Executive Committee has discussed this for over three years and this subject has been discussed at the last three NW FMS meetings.

Many members spent a considerable amount of time in one of the museum's storage buildings. This was the location for viewing and purchasing of beautiful fluorescent specimens and for show and tell. Don

Newsome demonstrated a Photo Research PR-650 spectrophotometer that measures the actual wavelengths of light from a fluorescent specimen. He then demonstrated how the some calcite rhombs from Challenger Cave in Mexico fluoresce different colors under four different UV wavelengths. Russ Pease showed some solid hydrozincite from near Demming, NM and some fluorite from the Polly Ann Mine, east of Duncan, AZ. Lee McIlvaine showed some svabite from Långban, Sweden that he personally collected just a week ago. Tom Menzel showed some eucryptite from the Xianghualing Mine, in Hunan, China. Al Liebetrau demonstrated fluorescence, phosphorescence, and tenebrescence in a blue sodalite specimen he collected from the Ilimaussaq Complex in Greenland.

After the Show N' Tell was time for free door prizes. Al Robb got the first pick since he had come the farthest from the Bay Area in CA. He got a rare hydroxyl-herderite from Pakistan that fluoresces bright blue under all wavelengths. The donor paid almost \$300 for that specimen. Other door prizes were: powellite from India; hyalite opal from Spencer, ID; rhodochrosite (fl. red SW) from N'Chwaning min, South Africa; thunderegg from Richardson's Ranch in OR, calcite from Ilwaco, WA; sphalerite from the Horn Silver Mine in UT; fluorite from Clay Center, OH; and calcite & willemite from Sterling Hill. Everyone got something.

After dinner, at about 6 PM, some members drove over to Bill and Diana Dameron's in Vancouver, WA to view their barite collection. Members lamped their collection to find fluorescent specimens and several surprises were found (Bill did not know that they would fluoresce). Bill and Diana offered drinks and snacks to the eleven members that made the short trip to their house.

The location for the 2010 NW FMS will be at Don Newsome's house in Renton, WA the date for the meeting has not been determined yet.

HOW DID I GET INTO FLUORESCENCE? – KARL RUSS

By: Karl Russ, #551, khruss@gmail.com, Ithaca, NY

It was more or less by accident because I bought my first UV-light in a store I used to go to for stamp collecting. It was there, in the early 1970s, that I got an UV-lamp, 254 nm SW, of course intended to be used on the postage stamps. Sometime thereafter, I had a calcite specimen and some stamps on the table at the same time – messy as usual – and the rest is history as the saying goes. And the more I looked at the minerals to check for fluorescence, the less I was interested in the stamp collection. One particular specimen was always used to show off with visitors: an autunite crystal cluster of about 8-cm., housed in a homemade lead-container. The 1-cm thick lid was slowly removed, exposing the specimen, then the UV lamp was moved from below up and the piece lit up what appeared like the sun rising. This effect was enhanced because the autunite was sitting on a cotton ball, which in turn and over many years, had begun to glow by itself. Of course the radioactivity of this piece was not dangerous (as long as one doesn't keep a boulder-sized specimen in the middle of the living room), but the Pb-container always made an additional impression.

Although quite interested in fluorescent species, I did not collect them exclusively during the time I went to mineral shows or the many dealers I visited while living in Europe. And now, some 40 years later, I'm very surprised how many minerals I really have displaying fluorescence! After moving from Germany to the States in 1986 and joining the FMS in 1987 – persuaded by Dr. Gerhard Henkel – Tom Warren and Dorothy Guild contacted me almost immediately offering to help. So I got my next UV lamp (115V, my former one was 220V and given to a fellow collector), a lot of useful information and many years later a part of Dorothy's fluorescent collection. Somewhere in between our former President Rod Burroughs was asking whether I would be interested in any volunteer work with the FMS and, after many months of prodding, I ended up with the editor job for the Journal – that was over 11 years ago.

Meanwhile, my collection is shrinking because there is no more buying but lots of donating – due to downsizing, involving the intense use of my UV lamp so that the nice fluorescent specimen won't be lost. Some went to the silent auction of the FMS, some to the Thomas Warren Museum of Fluorescence in New Jersey, some to the RRUFF project in Arizona, many to the Hudson Institute for Mineralogy in Peekskill, NY, and last but not least, they go to very nice people.

Instead of collecting fluorescent minerals, I'm now focusing my interest in searching for articles explaining the inner workings of all kinds of fluorescence, hoping it will benefit the members of the FMS reading the Journal.

53RD ANNUAL FRANKLIN-STERLING GEM & MINERAL SHOW REPORT – SEPT. 2009

By John H. Smith, #1578, Vienna, VA
(with help from Howie Green, Dick Bostwick, and Tema Hecht)

On my nearly 6-hour drive up to Franklin, New Jersey, the sumac, maple and poison ivy leaves were turning in the countryside and roadside farm stands were selling chrysanthemums in “fall colors.” These colorful visual clues were temporary distractions from daydreams of the colorful glowing rocks to be found at the second of two yearly mineral and gem shows held in the “Fluorescent Mineral Capital of the World,” where I hoped to add to my collection of fluorescent rocks.

This year I had a special assignment. My fellow Greenland Goadventurer, Kerry Cooper, was selling part of his collection at the show. When Kerry's schedule changed so that he could not arrive in time to set up Friday night, I offered to help. I knew the set-up procedure, since I had helped the Greenland Goadventure leader, Mark Cole, and his “helper/foil” Don Yonika, set up for several shows, so there were few surprises about what Kerry and I needed to have and do.

At this point let me pay a tribute to and express the thanks of many dealers and collectors at these shows to Tema Hecht and Dick Bostwick, “National Fluorescent Mineral Collecting Treasures.” Tema and Dick donate countless hours to the fluorescent mineral hobby by facilitating the display of exhibits and the set-up for sales at the Franklin shows. Their kindness and dedication is a real blessing to all collectors. I know that there are many other things that Tema and Dick do as volunteers for the Franklin Mineral Museum (FMM), the Sterling Hill Mineral Museum (SHMM), and the Franklin-Ogdensburg Mineralogical Society (FOMS), but my experience is more limited to the shows. The next time you see Tema and Dick, please let them know how much you appreciate their help.

Last year I wrote a more detailed article about what is available at the show. To summarize, there is an inside show in the school larger, newer gymnasium and another smaller, older gymnasium, where minerals, gems, jewelry, and related literature are sold under bright lights. On the stage behind a curtain of the school auditorium is a darkened area, where fluorescent mineral dealers set up and where there are ten display cases. On the athletic fields and playground behind the school



“Franklin Pastels” Fluorescent Display

there is an outdoor swap and sell area, where folks offer the same things that are offered inside. Even though the Franklin Pond is half a mile away, the outdoor area is still called “The Pond” by old-timers, as the original swap and sell session was



"The Pond" Swap and Sell Area at the Franklin School

held near Franklin Pond. Both FFM and SHMM have special fluorescent and non-fluorescent mineral sales on the weekend of the show.

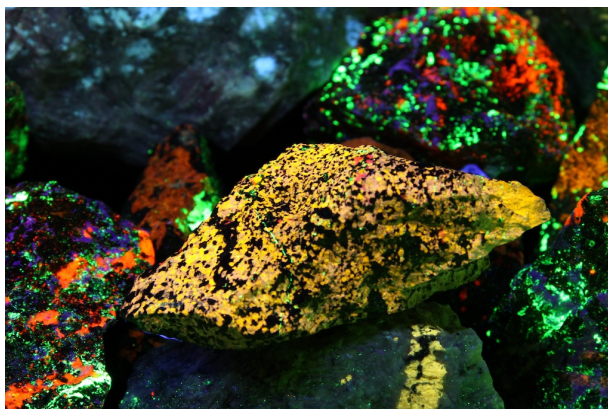
Here are the silver pick highlights of the inside show for me: having a chance to see Dr. Cooper's worldwide collection and even buy a few pieces; seeing Mark Cole's "swirly pattern" material recently collected at the Long Lake Zinc Mine, near Parham, Ontario, Canada; enjoying very bright sphalerite in barite from Hot Springs, North Carolina at C.B. Ward's; and marveling at the many patterns and combinations of bright Franklin/Sterling Hill area minerals offered for sale by Fred Lubbers, Kurt Hennig and Joe and Diana Bongiovanni. In addition, Gerry McLaughlin had an "open house" showing/selling his stock at a local motel. At The Pond, George Elling, Mark Leger, and Dru Wilbur had FL rocks which caught my eye. I also saw Long Lake Zinc Mine rocks, Brazilian MW calcite, and Wilberforce (Ontario, Canada) MW calcite/fluorite. Terry Szenics had FL Chilean cuprian powellite/glauberite and szenicsite.

Inside, the fluorescent rock exhibits were all local material. Exhibits were: (1) FMM "Franklin Classics"; (2) SHMM, "Franklin Miscellany" (Earl Verbeek's personal collection); (3) Peter Mackey, "Franklin Favorites" (his collection of the fluorescent mineral "paintings" of Mrs. Phillips of Plainfield, N.J.); (4) Andrew Mackey, "Fluorescent Finds"; (5) Steven Kuitems, "Franklin Delights"; (6) Denis DeAngelis, "Franklin Pastels"; (7) Claude Poli, "Franklin Selections"; (8) Richard Keller, "2009 Acquisitions"; (9) Pete and Chris Gillis, "Local Classics"; and (10) Pete and Chris Gillis, "Apatite and Wollastonite." There were some very fine, rare rocks on exhibit. The ones which particularly caught my eye were first and second find wollastonites, a bustamite, rich barites, and a Franklin turnearite.

There were two interesting new Franklin finds at the show: Kurt Hennig found some bright and very rich cuspidine (in the center of the photo at right).

I think he still has some for sale if you want to contact him. The cuspidine was found at the Buckwheat Dump. At the end of the show on Sunday, Mark Boyer brought into the dark stage area a rare, very highly prized and exquisite SW/LW bright cherry red bustamite and blue hardystonite, which he had purchased at the auction during the FOMS banquet. This rock originally showed a relatively small patch of bustamite.

When Mark went home afterward, on a very fortunate hunch, he carefully reformatted/downsized the rock with a hammer and chisel to reveal an interior of almost solid bustamite framed in hardystonite, at least for the two larger pieces which I saw that were sold the next day. As far as I know none of the pieces is available for sale.



If you can, check out the in 38th Annual New Jersey Earth Science Association Gem & Mineral Show Franklin in late April 2010. There is always something new and wonderful to see. I hope to be there.

MARVELOUS MIDWAVE

By Jeffrey Shallit, #1533, shallit@cs.uwaterloo.ca Kitchener, Ontario, Canada

Although I've been interested in fluorescent minerals for about 40 years, only recently did I purchase a midwave UV lamp (a Way-Too-Cool lamp from Charles B. Ward at the Detroit Show). Since then, I've been having a lot of fun looking at old and new fluorescent specimens under midwave.

Since most of the traditional books on fluorescent minerals discuss midwave briefly or not at all, I offer these observations from my not-very-comprehensive survey of minerals in my collection. I focus particularly on minerals where the midwave response is superior to other types of ultraviolet, or substantially different. Here are those observations:

AGRELLITE: This rare mineral from Kipawa, Quebec is particularly good under midwave, fluorescing a bright pink that is brighter than the shortwave response.

APATITE: One of my own discoveries is blue apatite (from a location in Quebec) that fluoresces only under midwave. The apatite displays essentially no response under longwave or shortwave, but under midwave it fluoresces a bright purple. Sometimes it occurs with other minerals that fluoresce blue and yellow under shortwave, and the contrast when one changes between wavelengths is really surprising. I have a number of pieces of this material that I would be happy to trade with other members of the FMS.

Some of the apatites from Otter Lake, Quebec, also fluoresce purple under midwave; their shortwave response is notably less.

ARAGONITE: I have a piece of aragonite in my collection from an unknown location, obtained when I was a child, that fluoresces white under shortwave, yellow under midwave, and pink under longwave. If anyone knows of a similar response, it might help me track down the location.

CALCITE: Red-fluorescing calcite often seems particularly good under midwave, often better than under shortwave. This seems particularly true for calcite associated with fluorite, e.g. at the Pure Potential Mine in Arizona and the Richardson Mine in Wilberforce, Ontario. A specimen that is only mildly fluorescent under shortwave or longwave can be truly spectacular under midwave.

At the Casaubon Quarry in St. Ursule, Quebec, calcite is found together with gemmy green fluorite. Under shortwave, the calcite fluoresces pink but does nothing under longwave. Under longwave, the fluorite fluoresces the usual purple, but under shortwave is unimpressive. Under midwave, however, both minerals fluoresce quite brightly, forming a spectacular red and purple combination. I have a limited number of small pieces of this material for trade. A similar response is found in the calcite/fluorite combinations at Chute Caron, Quebec.

Calcite/fluorite combinations from the Rogers Mine, Madoc, Ontario fluoresce a spectacular red and purple under midwave. Some of this fluorite also fluoresces white under shortwave. I have a number of pieces of this material for trade.

Calcite from Challenger Cave, Nuevo Leon, Mexico fluoresces a pink under longwave, and white under midwave. Its shortwave response is somewhere between blue, pink and purple, and is hard for me to describe because of the strong blue phosphorescence.

Other calcite localities that have particularly fine red midwave fluorescence include: Guanajuato, Mexico; Ruby Mine, Cobalt, Ontario; in association with non-fluorescing fluorrichterite, at Wilberforce, Ontario; Rio Grande do Sul, Brazil; and the Steep Rock Mine, Atikokan, Ontario.

Perhaps good midwave response is due to manganese as an activator, and perhaps the amount of manganese required for good midwave response is different from that required for good shortwave response. This would be a good subject for further research, but I lack the necessary expertise and equipment to pursue it. I have found two pieces of calcite from Franklin, New Jersey, that fluoresce bright red under shortwave, but a mixture of red and bright blue under midwave. This seems to be the same as the material sometimes called “Crazy Calcite”.

GROSSULAR: Most garnets are not fluorescent. A notable exception is the raspberry-red grossular from Sierra de Cruces Range, Coahuila, Mexico. Under midwave they fluoresce a deep red, with barely any response under either shortwave or longwave.

HARDYSTONITE: Some hardystonite from Franklin, New Jersey appears to fluoresce brighter under midwave than shortwave. This effect is somewhat enhanced by the fact that hardystonite is often associated with willemite that fluoresces very brightly under shortwave and tends to wash out the response of the hardystonite, while under midwave the willemite is often more subdued.

MARGAROSANITE: Some margarosanite from Franklin, New Jersey, fluoresces bright blue under shortwave, but a less impressive orange under midwave.

PECTOLITE: Some pectolite from Mt. St. Hilaire, Quebec, fluoresces a dull pink under shortwave, but a bright pink under midwave.

PYROMORPHITE: This mineral is not usually thought of as a spectacular fluorescent, and it usually isn't – under shortwave that is. Under midwave, however, many pyromorphite specimens fluoresce a yellow to orange color that can be very bright indeed. A light brown pyromorphite from the classic location of Bad Ems, Germany, fluoresces bright yellow under midwave and not at all under shortwave or longwave. Some pyromorphite from the Society Girl Mine, Moyie, British Columbia, Canada fluoresces a bright orange under midwave, with a notably lesser response under shortwave.

Lately there has been an enormous amount of green pyromorphite from the DaoPing Mine, Guangxi Autonomous Region, southern China at shows. Some of this material fluoresces bright yellow in midwave. I have examined many flats of this material at Tucson and other shows, and only a small percentage exhibits the really bright fluorescence, so bring your light and be prepared to look at many specimens. Roughly speaking, it seems to be the lighter colored material that fluoresces better.

SCAPOLITE: Scapolite from Cannon Inlet, Baffin Island, Nunavut, fluoresces a bright peach under midwave – brighter than under shortwave. Brad Wilson of Alpine Gems was selling some of this material.

SCHEELITE: Scheelite sometimes fluoresces a bright yellow under midwave, a color similar to the response of powellite under shortwave. For example, scheelite from Sanford, Maine displays this property, as does the scheelite from the Shadow Mountains, California. I'd conjecture this response is related to the molybdenum content. Scheelite from the Red Rose Mine, Skeena/Cross, British Columbia, doesn't fluoresce at all under midwave, and the scheelite from the Union Mine Open Pit, Atolia, San Bernardino County, California, and from Trumbull, Connecticut has only a weak midwave response. Other localities for non-fluorescing scheelite under midwave include the Tie Sha Pin Mine, Hunan Province, China; Wenshan, China; and Tong Wha, Korea. Some scheelite from Mt. Xuebaoding, Sichuan Province, China fluoresces bright red under midwave. It would be interesting to know the cause of this. [Editor's note: I have personally observed Korean scheelite fluorescing red under midwave, and Pakistan scheelite fluorescing orange/red under midwave.]

WALSTROMITE: Walstromite from Big Creek, Fresno County, California fluoresces bright orange under midwave, with a lesser response under shortwave.

WAVELLITE: Some wavellite from Saline County, Arkansas has a wonderful green response under midwave, which is in contrast to its relatively weak response under shortwave. Maybe this should be called “mid-wavellite”!

WILLEMITE: So-called “beta-willemite from the Andover Mine, Sussex County, New Jersey fluoresces yellow under shortwave and orange under midwave.

Notices & Announcements

WEST COAST GLOW 2010

FLUORESCENT MINERAL DISPLAY AND SALE

Friday & Saturday, March 5th & 6th, 2010 from 10:00 AM to 6:00 PM

Sunday, March 7th, 2010 from 10:00 AM to 5:00 PM

Location:

Newark Pavillion

6430 Thornton Avenue

Newark, CA

Cost for a three-day pass is \$6.00 at the door (\$1 off with coupon). Coupons are available at the website <http://www.mgscv.org/>. Come see and touch fluorescent minerals only at the Annual Jewelry, Gem & Mineral Show presented by the Mineral & Gem Society of Castro Valley. Fluorescent mineral displays will be coordinated and presented by the FMS – Northern California Region. A FMS meeting is scheduled as follows:

Saturday, March 6, 2010 from 6:00 PM to 8:00 PM (after the Show)

At

The NEWARK PAVILLION HALL 3 (tentative – check day of show)

Be sure to bring your favorite fluorescent mineral specimen. Contact Lee McIlvaine at uvgeologist@yahoo.com or (215) 713-8020 for questions or additional details.

44TH ANNUAL TURLOCK GEM & MINERAL SHOW

Location: Stanislaus County Fairgrounds, 900 N. Broadway, Turlock, CA.

Date: Saturday, March 13, 2010 through Sunday, March 14, 2010.

Time: Saturday from 10:00 AM to 6:00 PM and Sunday from 10:00 AM to 5:00 PM.

Note: The Mother Lode Mineral Society will be sponsoring a gem and mineral show on the above dates and times. There will be a \$5.00 fee for adults and children under 12 are free. There will be dealers, demonstrations, kids’ activities, door prizes, raffle prizes, dinosaur bone exhibit and a **fluorescent tent**. Contact Bud & Terry McMillin at (209) 524-3494 for further information or go to www.turlockgemshow.com.

New Members & Address Changes since the last UV Waves

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Future Events		
Dec. 15, 2009	Pasadena, California	FMS Board Meeting, Villa Gardens @ 7:30 PM
Jan. 19, 2010	Pasadena, California	FMS Board Meeting, Villa Gardens @ 7:30 PM
Feb. 12, 2010	Tucson, Arizona	Tucson FMS Meeting @ 6:00 PM Church of the Painted Hills 3295 W. Speedway Blvd.
Feb. 16, 2010	Pasadena, California	FMS Board Meeting, Villa Gardens @ 7:30 PM
March 5-7, 2010	Newark, California	West Coast Glow 2010 @ 10:00 AM
March 13-14, 2010	Turlock, California	44 th Annual Turlock Gem & Mineral Show @ 10:00 AM

THANKS TO OUR SUSTAINING MEMBERS

Sustaining members make additional contributions that support the FMS website (<http://www.uvminerals.org>) and other FMS activities. The FMS website contains links to the websites and e-mail addresses of our sustaining members. Your patronage of these members is appreciated.

The FMS does not specifically endorse or promote any dealer or product, but we believe your time will be well spent viewing what these providers have to offer. For those new to the hobby, visiting the sites of these FMS sustaining members will give you a valuable opportunity to learn more about the exciting world of fluorescence and to become acquainted with what they offer to enhance your enjoyment.

Dealers and individuals are invited to become sustaining members of the FMS. Sustaining membership dues are \$50 per year (\$55 outside the USA). For more information, visit the FMS website or contact Al Liebetrau, FMS Treasurer, at liebetrauam@msn.com or 541-504-4751.

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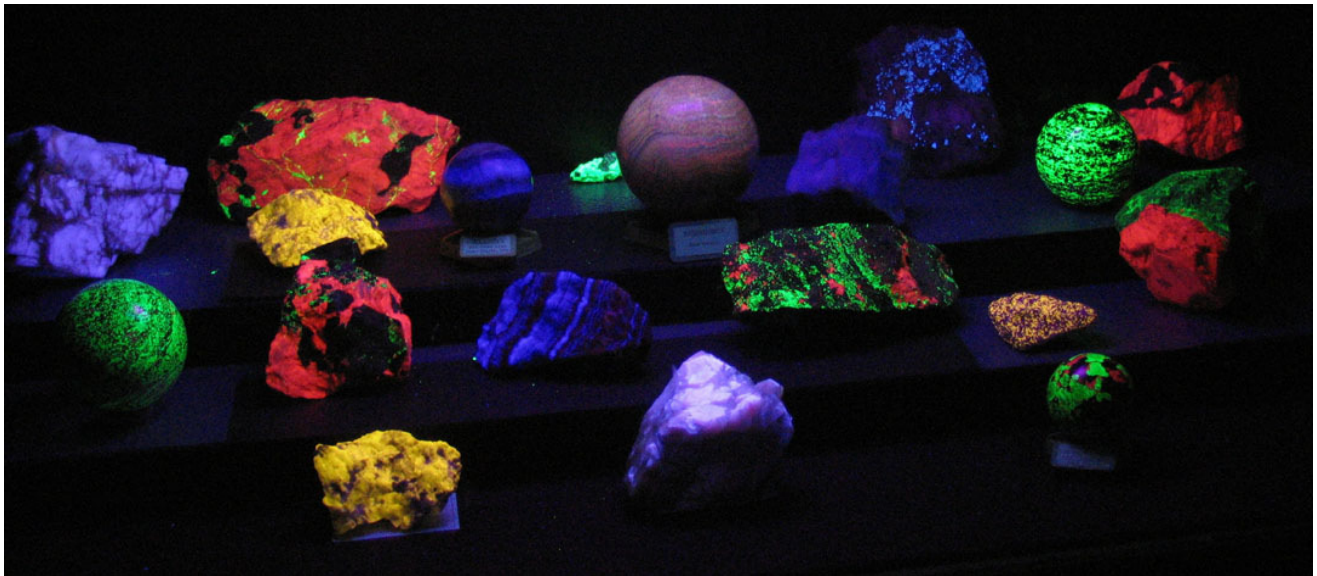
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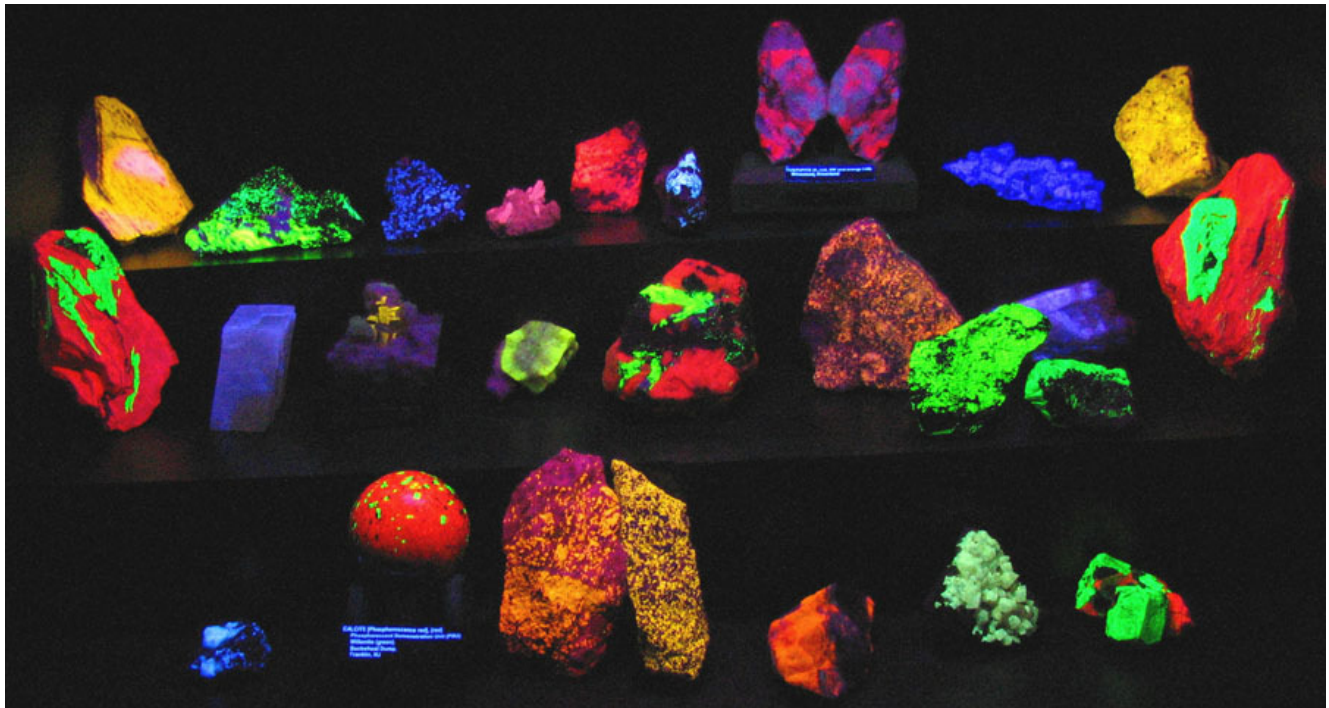
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Part of the fluorescent display from the Evans Collection in the Mineral Museum at The College of Idaho in Caldwell, ID

Photo by Don Newsome



A SW fluorescent display at the fall Franklin-Sterling Gem & Mineral Show, Franklin, NJ 2006. Note the orange wollastonite and yellow wollastonite specimens in the lower center are from different levels from the Sterling Hill Mining Museum.

Photo by Don Newsome

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FMS Webmaster	Ed Anderson	784 - A, Dolores Street, San Francisco, CA 94110 USA	webmaster@uvminerals.org

The FMS board meets the third Tuesday of each month at 7:30 PM in the game room of the Villa Gardens Retirement Center, 842 E. Villa Street, in Pasadena, California (just west of Lake Ave., North of the 210 freeway, N 34°09.256', W 118°08.023'). Any and all FMS members are welcome to attend these meetings, but calling ahead is recommended for irregular attendees to check for cancellation - call (818) 702-8972. The registration fee for new FMS members is \$5.00 U.S., plus yearly dues of \$20.00 for members in the U.S.A., or U.S. \$25 for non-U.S.A. members. The Fluorescent Mineral Society does not recommend or endorse any products, vendors, services, or service providers mentioned in any part of this newsletter.