

THE PICKING TABLE

JOURNAL OF THE FRANKLIN-OGDENSBURG MINERALOGICAL SOCIETY

VOL. 61, NO. 1 – SPRING 2020

\$10.00 U.S.



IN THIS ISSUE

- **RICH KELLER RETROSPECTIVE**
- **GENTHELVITE FROM FRANKLIN**
- **REMEMBERING TOM HAUCK**



WWW.FOMSNJ.ORG

THE FRANKLIN-OGDENSBURG MINERALOGICAL SOCIETY, INC.

OFFICERS AND STAFF

PRESIDENT

GARY KERSTANSKI

P.O. Box 703

Goshen, NY 10924

C: 845-978-4141

glowrocks703@gmail.com

VICE PRESIDENT

RALPH BONARD

P. O. Box 282

Ogdensburg, NJ 07439

C: 973-222-9968

rbonard@yahoo.com

SECOND VICE PRESIDENT

STEPHANIE KOLES

C: 973-370-2898

stephanie.koles@gmail.com

SECRETARY

TEMA J. HECHT

600 West 111th Street, Apt. 11B

New York, NY 10025

H: 212-749-5817

C: 917-903-4687

thecht@att.net

TREASURER

DENISE KROTH

85 Beaver Run Road

Lafayette, NJ 07848

W: 973-209-7212

Denise.Kroth@shmmuseum.org

TRUSTEES

Richard C. Bostwick (2019-2020)

Mark Boyer (2019-2020)

Phil Crabb (2019-2020)

Mark Dahlman (2019-2020)

George Elling (2019-2020)

Pat Hintz (2019-2020)

Richard J. Keller, Jr. (2019-2020)

Steven M. Kuitems, DMD (2019-2020)

Gary Moldovany (2020-2021)

LIAISON WITH THE EASTERN FEDERATION OF MINERALOGICAL AND LAPIDARY SOCIETIES (EFMLS)

Delegate

Mark Kucera

COMMITTEE CHAIRPERSONS

Field Trip

Coordinator

Richard J. Keller, Jr.

Nominating

Gary Moldovany

Program

Ralph Bonard

Swap & Sell

Gavin Hannah

Webmaster

William Pazik

THE PICKING TABLE

VOL. 61, NO. 1 – SPRING 2020



Spring and Summer 2020 Activity Schedule, <i>Tema J. Hecht</i>	2
President's Message, <i>Gary Kerstanski</i>	4
From the Editor's Desk, <i>James Van Fleet</i>	4
Franklin Mineral Museum Report, <i>Mark Boyer</i>	5
Happenings at Sterling Hill, <i>Bill Kroth</i>	7
Ultravioletation 30th Annual Show, October 26, 2019, <i>Lee McIlvaine</i>	8
The 63rd Annual Franklin-Sterling Gem & Mineral Show, September 28 and 29, 2019, <i>Steven M. Kuitens, DMD</i>	11
Thank You, Rich!, <i>James Van Fleet</i>	14
In Memoriam: Tom Hauck, <i>Elna Hauck</i>	16
A Remembrance of Tom Hauck, <i>Mark Boyer</i>	16
Gentelvitte From Franklin, New Jersey, <i>Ralph and Zack Bonard</i>	19
A Collector's Saga, as told to <i>Anna Manuensis</i>	21
FOMSNJ.ORG, the Website of the Franklin-Ogdensburg Mineralogical Society, <i>John Pazik</i>	23
Willemite Poem, <i>Tema J. Hecht</i>	25

PUBLISHER

THE FRANKLIN-OGDENSBURG
MINERALOGICAL SOCIETY, INC.

MANAGING EDITOR

JAMES VAN FLEET

EDITORS

RICHARD C. BOSTWICK
MARK A. BOYER
TEMA J. HECHT
ALEX KERSTANSKI

ART DIRECTOR

CAITLIN WHITTINGTON

PRINTING

ACORN GRAPHICS, INC.

Subscription to *The Picking Table* is included with membership in FOMS. For membership, back issues, and information, write to:

Denise Kroth, Treasurer, FOMS
85 Beaver Run Road
Lafayette, NJ 07848
treasurer@fomsnj.org

The Picking Table is the official publication of the Franklin-Ogdensburg Mineralogical Society, Inc. (FOMS), a nonprofit organization, and is sent to all members. *The Picking Table* is published twice each year and features articles of interest to the mineralogical community that pertain to the Franklin-Ogdensburg, New Jersey, area.

Members are encouraged to submit articles for publication. Articles should be submitted as Microsoft Word documents to James Van Fleet at javanfleet8@gmail.com.

The views and opinions expressed in *The Picking Table* do not necessarily reflect those of FOMS or the editors.

FOMS is a member of the Eastern Federation of Mineralogical and Lapidary Societies, Inc. (EFMLS).

The Picking Table is printed on acid-free, chlorine-free paper.

ABOUT THE FRONT COVER

Miners Day 2019. Standing, from left: John Anderson, Al Grazevich, Fred Kirk, Steve Dekmar, John Antal, Bill Rude, Bernie Kozykowski, Harvey Barlow, Steve Sanford, Edward "Ned" Hamilton (half-hidden behind Steve), Ted Hanson, Doug Francisco, Richard Bostwick, and Chris Auer.

Sitting, from left: Robert Allen, Josef "Little Joe" Mancik, Paul Rizzo, and Tom Laner.

Photo by Tema J. Hecht.



FRANKLIN-OGDENSBURG MINERALOGICAL SOCIETY SPRING AND SUMMER 2020 ACTIVITY SCHEDULE

WEBSITE: WWW.FOMSNJ.ORG

COMPILED BY TEMA J. HECHT

BEFORE PLANNING TO ATTEND ANY EVENT ON OUR SCHEDULE, PLEASE CHECK WITH THE SPONSORING ORGANIZATION, VIA EMAIL, FACEBOOK, OR THEIR WEBSITE.

SATURDAY, MARCH 21, 2020

9:00 AM – NOON

FOMS Field Trip

Sterling Hill Mining Museum.

Collecting permitted on the Mine Run Dump and in the Hill Quarry, Passaic Pit, and “saddle” area.

\$5.00 admission fee plus \$2.00 for each pound of material taken.

NOON – 1:15 PM

Future Rockhounds of America

Franklin Mineral Museum.

Parents are welcome to attend.

For questions please contact Mark Dahlman at: fra@fomsnj.org or 301-428-0455.

1:30 PM – 3:30 PM

FOMS Meeting

Franklin Mineral Museum.

Lecture: *True Franklin and Sterling Stories, Old and New*, by Richard Bostwick.

MINERAL OF THE MONTH – RADIATING MINERALS FROM FRANKLIN-STERLING AREA
Bring your specimens for a show-and-tell after the lecture.

SATURDAY AND SUNDAY, APRIL 4 AND 5, 2020

**31st Annual North Jersey Gem, Mineral & Fossil Show

Midland Park High School,

250 Prospect St., Midland Park, N.J.

Saturday: 10:00 AM – 5:00 PM

Sunday: 10:00 AM – 4:00 PM

Admission: \$5.00 per person; \$4.00 per senior adult; free admission for children under 12.

WEDNESDAY, THURSDAY, FRIDAY, SATURDAY, SUNDAY, APRIL 15-19, 2020

**NY/NJ Mineral, Fossil, Gem & Jewelry Show

New Jersey Convention & Expo Center, Raritan Center
97 Sunfield Ave., Edison, N.J.

SATURDAY, APRIL 18, 2020

9:00 AM – NOON

FOMS Field Trip

Collecting at the Taylor Road site.

Meet and park at the Franklin Mineral Museum, and walk from there. **Do not park on Taylor Road!** Fee charged.

NOON – 1:15 PM

Future Rockhounds of America

Franklin Mineral Museum.

Parents are welcome to attend.

For questions please contact Mark Dahlman at: fra@fomsnj.org or 301-428-0455.

1:30 PM – 3:30 PM

FOMS Meeting

Franklin Mineral Museum.

Lecture: *Out From the Past: Thomas Edison, Iron, and the Ogden Mine Railroad*, by Jack Clark.

MINERAL OF THE MONTH – CALCITE

Bring your specimens for a show-and-tell after the lecture.

SATURDAY AND SUNDAY, APRIL 25 AND 26, 2020

24th Annual FOMS / STERLING HILL GEM, MINERAL, & JEWELRY SHOW.

Sponsored by the Franklin-Ogdensburg Mineralogical Society, Inc, and the Sterling Hill Mining Museum.

Littell Community Center (formerly the Franklin Armory),
12 Munsonhurst Road, Franklin, New Jersey.

Saturday, 9:00 AM – 5:30 PM; Sunday, 10:00 AM – 5:00 PM

Swap-and-Sell hours:

Saturday, 8:00 AM – 5:30 PM; Sunday, 9:00 AM – 5:00 PM

Donation: \$6.00 per person, children under 14 free with paying adult.

Banquet and Auction

Saturday evening at the GeoTech Center,
Sterling Hill Mining Museum.

Admission limited to 40 people.

Social hour: 5:30 PM – 6:30 PM

All-you-can-eat buffet: 6:30 PM – 9:30 PM

Banquet tickets are \$20.00 each and include all food, coffee, tea, and soft drinks. **BYOB!!**

Silent auction: 5:30 PM – 7:30 PM

Live auction: 7:45 PM

Both auctions are for the benefit of the sponsors: FOMS and SHMM.

**Annual Super Diggg!

Saturday, April 25, 2020

Franklin Mineral Museum, Franklin, N.J.

Sponsored by the Delaware Valley Earth Science Society (DVESS).

Visit www.superdiggg.com for more information, schedule, fees, and updates!

****Sterling Hill Garage Sale**

Saturday and Sunday, April 25 & 26, 2020

10:00 AM – 3:00 PM

Christiansen Pavilion, Sterling Hill Mining Museum.

****Collecting on the Mine Run Dump and in the Fill Quarry, Passaic Pit, and “Saddle” area.**

Sterling Hill Mining Museum, Sunday only, April 26.

9:00 AM – 3:30 PM (Open to the public!)

Fees for mineral collecting:

\$5.00 admission plus \$2.00/lb for all material taken.

SUNDAY, MAY 3, 2020

NOON

****Annual Miners Day Tribute and Volunteer Appreciation Day**

Franklin Mineral Museum.

Including special program and a concert by the famous Franklin Band.

!!! Attendance by invitation only !!!

SATURDAY, MAY 16, 2020

9:00 AM – NOON

FOMS Field Trip

Collecting at the Hamburg Mine/Lang Shaft (private property)

Meet at the Franklin Mineral Museum at 8:30 AM sharp, where participants will be escorted to the location.

NOON – 1:15 PM

Future Rockhounds of America

Franklin Mineral Museum.

Parents are welcome to attend.

For questions please contact Mark Dahlman at:

fra@fomsnj.org or 301-428-0455.

1:30 PM – 3:30 PM

FOMS Meeting

Franklin Mineral Museum.

Lecture: *Mill Site After Dark: the Rocks You Find, the Collections You Chase, the People You Meet, and the Stories You Never Tell!*, by Jim Chenard.

MINERAL OF THE MONTH — VEINS: YOUR FAVORITES FROM FRANKLIN/STERLING HILL

Bring your specimens for a show-and-tell after the lecture.

SATURDAY AND SUNDAY, MAY 16 AND 17, 2020

****North Jersey Mineralogical Society Swap & Sell**

9:00 AM – 5:00 PM

Sterling Hill Mining Museum.

SATURDAY, JUNE 6, 2020

7:30 PM – 11:00 PM

****Night Dig on the Buckwheat Dump.**

Franklin Mineral Museum.

Admission \$10.00 adults, \$8.00 children.

Poundage fee charged. **Call for details: 973-827-3481.**

SATURDAY, JUNE 20, 2020

9:00 AM – NOON

FOMS Field Trip

Collecting at the Braen Franklin Quarry, Cork Hill Road, Franklin, N.J.

If gate is open, drive through and park to the left of the gate.

Please don't block the roadway.

Meet at the scale house to sign releases. Hard hats, leather shoes (preferably steel-toed), gloves, and safety glasses **required**.

Participants MUST arrive by 8:45 AM to register!

Members will then be escorted to the collecting site

NOON – 1:15 PM

Future Rockhounds of America

Franklin Mineral Museum.

Parents are welcome to attend.

For questions please contact Mark Dahlman at:

fra@fomsnj.org or 301-428-0455.

1:30 PM – 3:30 PM

FOMS Meeting

Franklin Mineral Museum.

Lecture: *Jasper From Around the World*, by John Sanfaçon.

MINERAL OF THE MONTH — WILLEMITE

Bring your specimens for a show-and-tell after the lecture.

6:00 PM – 10:00 PM

****Night Collecting on the Mine Run Dump and in the Passaic Pit and “Saddle” area.**

Sterling Hill Mining Museum.

Fees for mineral collecting:

\$5.00 admission plus \$2.00/lb for all material taken.

Eye protection, flashlight, hammer (carpenter's claw hammers not allowed), and UV lamp advised.

!!! Open to Sterling Hill Mining Museum members only !!!

✕ ✕ ✕ ✕ ✕ ✕ ✕ ✕ ✕ ✕ ✕

Scheduled activities of the FOMS include meetings, field trips, and other events. Regular meetings are held on the third Saturdays of March, April, May, June, September, October, and November, and generally comprise a business session followed by a lecture. FOMS meetings are open to the public and are held at 1:30 PM, usually in Kraissl Hall at the Franklin Mineral Museum, 30 Evans St., Franklin, N.J. (check listings for exceptions).

Most FOMS field trips are open only to FOMS members aged 13 or older. Proper field trip gear required: **hard hat, protective eyewear, gloves, sturdy shoes.**

**Activities so marked are not FOMS functions but may be of interest to its members. Fees, and membership in other organizations, may be required.

Any information in this schedule, including fees, is subject to change without notice.

President's Message

GARY KERSTANSKI

P.O. BOX 703

GOSHEN, NY 10924

glowrocks703@gmail.com

As I embark on this new adventure as FOMS President, I can't help but reflect on how I arrived here. By trade I now am an accountant, but this started a long time ago. There is a strong "magnetic" force from the fluorescent minerals of the Franklin-Ogdensburg area. This force continues to pull us all back. I come from a family of many Franklin miners, including my father, who was a Franklin miner from 1948 to 1954. I saw the "wow" factor of these great specimens, when exposed to UV light, at a very young age and it never left. In fact, now, with my son Alex's extensive interest in geology, I am more involved than ever before. My "wow" factor has been rekindled.

My goal is to rekindle the interest of many people who may have temporarily lost it and to introduce the "wow" factor to as many new potential members as possible. I intend to keep many of our activities in place but bring back some that have

been forgotten, and also add some new ones. For example, we have brought back the "Mineral of the Month" feature to our meetings on a regular schedule. I would hope that everyone will bring their favorite specimens to share and participate. It is great to look at photos, but there is nothing like seeing specimens in person and close up. Please check our website and Facebook page for additional changes in the future.

I am also asking for your support in any way, shape, or form that you can manage. We have a great organization that arrived here through the hard work of many people. I wish to thank them all, but to keep us on top we all need to pitch in. I look forward to an enjoyable term and would gladly welcome your suggestions. Please stay healthy in these difficult times so we all will be around to enjoy and share our specimens in the future. ✂

From the Editor's Desk

JAMES VAN FLEET

222 MARKET STREET

MIFFLINBURG, PA 17844

javanfleet8@gmail.com



Here we go, my first effort as managing editor of *The Picking Table*. As some of our readers may know, I just finished a 3-year stint as editor of the *Journal of the Fluorescent Mineral Society*, an annual publication with a much broader scope. I'm very much looking forward

to focusing in on the Franklin-Ogdensburg mining district, its minerals, history, and geology. I am especially eager to highlight the activities of the members of FOMS, and their collections and interests. This journal is about us!

I've got excellent help, and no lack of good advice, and if we do this right each issue of the *PT* will inform and entertain. As noted elsewhere in this issue, I am stepping into the role perfected by Rich Keller, and I can't ask for a better model. At least in the short term, *PT* readers won't be seeing any radical changes in format or content. Our editorial team will do its

best to keep to a tried-and-true schedule, publishing issues before the Spring and Fall Franklin mineral shows, in April and September.

And now my plea: *The Picking Table* needs content! Field trip reports, reviews of local mineral shows, acquisitions, discoveries, and reminiscences are all welcome. The history of Franklin and the Franklin mining district is always a fascinating topic. Articles on UV lighting technology, how to catalog a mineral collection, or even what you have been reading lately could all be of interest! Technical articles on mineral specimen identification, the science of luminescence in minerals, or local geology will always be given careful consideration, and receive additional review from outside experts. Please consider sharing, and adding to our collective knowledge. Contributors can send ideas, Word documents, photographs, text files, InDesign articles, and links to DropBox to javanfleet8@gmail.com. Postcards, letters to the editor, and handwritten notes can be mailed to:

Jim Van Fleet, 222 Market Street, Mifflinburg, PA 17844 ✂

Franklin Mineral Museum Report

MARK BOYER

PRESIDENT, FRANKLIN MINERAL MUSEUM

32 EVANS STREET

FRANKLIN, NJ 07416

markaboyer@earthlink.net

New faces and new features are in play at the Franklin Mineral Museum since last year. At the November board meeting, Jack Clark, James Van Fleet, and John Postas were elected as trustees. Keri Merino and Cory Houghtaling were elected as advisors. Mark Boyer was re-elected president, Earl Verbeek was re-elected vice president, Dan Goscicki was re-elected treasurer, and James Van Fleet was elected secretary since Elna Hauck had retired after 35 years as museum secretary. We thank Elna, now a trustee, for her faithful service to the museum spanning many administrations.

Over the winter months, work continued on the building and grounds. Property damage from the December ice storm was extensive, with many broken tree limbs and downed branches. Most of the damage had been cleaned up as of March. The weather for most of the winter was mild enough for much interior work to be performed by volunteer staff. Exhibit cabinets were relocated throughout the museum for better artifact and specimen presentation. The Fossil and Native American Rooms have been repainted and new track lighting has been installed. The room now has a much more modern look in keeping with contemporary museum design. Glass shelves and lighting have been added to the large wall cabinet in Welsh Hall. The front lobby was updated with vintage-style but energy-efficient lighting to give it a more inviting look as visitors first enter the museum. Large and colorful boulders have been raised onto platforms in various places throughout the museum to give them eye appeal. Steve Misiur has refurbished the fluorescent mineral exhibit with upgraded lighting, improved labeling, and fresh paint.

Dr. Verbeek continues to expand the museum's database of analyzed specimens. Meanwhile Lee Lowell and his Bylaws and Policy Committee have been hard at work rewriting and amending the museum's bylaws and other guiding documents to bring them up to date for good business practice and compliance with current law. On the public relations front, the Leap Into Science training program for staff has been postponed. We now have a table cover and retractable banners promoting the museum. These were designed to help establish a uniform business identity and boldly iconic branding.

The museum administration and staff are responding to the current COVID-19 situation as required, and the museum will be closed until further notice. As members can see from the Schedule of Events in this issue of *The Picking Table* and on the



Renovations to Welsh Hall and Native American/Fossil rooms. *Photos by Carol LaBrie.*

FOMSNJ.org website, all events associated with the museum have been cancelled through April, and we will continue to monitor the situation and respond appropriately. We still plan to have our annual mineral sale, which is normally held during the April mineral show weekend, but it has been postponed to a date to be announced on our Facebook page. The annual Super Diggg on the museum's Mill Site Mound, sponsored by the Delaware Valley Earth Science Society, will likely occur sometime this fall. ✂

The Sterling Hill Mining Museum, Inc.



Featuring acres of things to see indoors, outdoors, and underground, including:

Antique mining equipment displays
Mining memorabilia displays
Historic buildings
Underground guided tours
Museum store stocked with minerals, books, T-shirts, caps, etc.
Food concession and picnic area
And much more!

Every day a collecting site will be open for an additional \$5.00 fee.

Contact the mine office for details.

30 Plant Street
Ogdensburg, NJ 07439
Museum phone: 973-209-7212
Fax: 973-209-8505
sterlinghillminingmuseum.org

Schedule of operation:
Due to the current situation with the Coronavirus, Sterling Hill will be closed as of March 16, 2020 until further notice.



April 1 through November 30, Museum store is open 7 days a week, 10:00 AM to 3:00 PM. General public tours at 1:00 PM. Group tours may be scheduled by appointment at other times during the day.

December 1 through March 31, **WEEKENDS** - Museum store is open 10:00 AM to 3:30 PM and general public tours are at 1:00 PM (weather permitting). Group tours may be scheduled during weekdays by appointment (weather permitting). Please call if you have any questions.

In April, May, June, September, October, and November, tours at 1:00 PM or by appointment.

The temperature in the mine is 56°F.

DON'T MISS THE RAINBOW ROOM!

Franklin Mineral Museum

Located in

"The Fluorescent Mineral Capital of the World"

Exhibits

Mineral Sales

Rock Collecting

ebay.com/str/franklinmineralmuseum

32 Evans Street ~ Franklin, NJ 07416

973-827-3481

franklinmineralmuseum.com



The staff would like to inform our followers, friends, and visitors that the Franklin Mineral Museum is officially **CLOSED** until further notice. This action is being taken for an abundance of caution in light of the Coronavirus. The staff wishes everyone to be safe. Please follow our Facebook page for further updates.

Happenings at Sterling Hill

BILL KROTH

PRESIDENT, STERLING HILL MINING MUSEUM
30 PLANT STREET, OGDENSBURG, NJ 07439

As Sterling Hill enters its fourth decade and we celebrate its growth and success, we must unfortunately face the fact that those who are responsible for its “life” are burning through their own. With sadness I must report that in October 2019 we lost a key member of the Sterling Hill team, Tom Hauck. Tom, the youngest of the five Hauck brothers, was here during the early years when brothers Dick and Bob Hauck established the Museum. He then joined us in 2011 as property manager and worked full-time until his recent passing at age 64. Tom was a great mechanic and helped us with anything that had an engine, along with general property maintenance. He was responsible for many of our great displays, from our caboose to the many other outdoor mining items. Tom had a great sense of humor and was always involved in our “out of the ordinary” projects. He was a major attraction as “Bicycle Pete” during our Haunted Halloween events, riding his old bike through the mine, while in gray makeup. I can still see the glow of his sooty oil lamp coming out of the darkness and hear his antique horn as all of the visitors clamored to get a photo with him! Tom, like his brothers, was a collector and, if anyone had “collecting in their blood” it certainly was him. He specialized in lanterns and had a wonderful collection that fully lined the walls of his home in Franklin, N.J. My last memory of Tom was visiting him on a sunny afternoon at his small home. Tom was sitting in his favorite chair among his cherished lanterns and the sunlight projecting through the various colored lenses gave us all a sense of peace, almost as though we were within a church. Tom’s other “home,” his antique garage in our mill building, will remain a mainstay at Sterling Hill, now maintained by his son, Jason.

Among the many great ideas coming from ex-miner and board member, Doug Francisco, one of my favorites is the animated man-cage and ore skip in our west shaft station. Doug, wanting our mine interior to be more realistic and self-explaining, designed and built a new man-cage and ore skip that will run up and down our existing shaft tracks similarly to the way he remembers it decades ago. Our guides will simply press a button and each new 1,000 pound unit will either ride up or down along the tracks, showing the movement of men and ore. Helping with the fabrication, welding, and painting was Phil Wetzel. Phil joined us in November 2019 and is now a full-time member of our maintenance and fabrication team. Previously, Phil worked as a custodian at one of the neighboring school systems. Geology student and staff member Alex Kerstanski also helped in the building of the

units. Finally, I would like to thank my uncle and electrical engineer, Joe Vinciguerra. Joe helped in the 1990’s with the original alarms system for Sterling Hill and we were fortunate to get him to design and build the circuits, timers, and relays that are responsible for animating this new attraction. I racked my brain trying to design a controller that would survive the damp environment of the mine and all of the electrical stress of automatically reversing the heavy loads, but with no success. What a pleasure it was to simply open the mail and get a custom-designed control unit that met all of our unusual electrical needs. Thanks for volunteering, Joe!

With the increase in school visitation comes the need for comfortable climate-controlled areas, especially for students eating lunch. Our Paul Christiansen Pavilion received a major upgrade about six years ago when we enclosed it with clear vinyl panels, similar to those used on boats. We also installed a propane heater, and these additions certainly made the interior environment more comfortable especially during the colder months. We knew that the lifespan of these panels would be limited – the clear vinyl would cloud and get scratched, and using the zippers for ventilation would be more problematic than sliding window frames. But the cost of installing a storefront type curtainwall consisting of aluminum and glass would be prohibitive.

Several months ago, I heard very positive comments about a business in Ogdensburg – “Bathing Beauties.” The firm specializes in custom glass shower enclosures and is owned and operated by Tom Horuzy, father of tour guide and author, Carissa Horuzy. As a lark, I asked Tom what the cost would be to totally replace the vinyl panels with a bronze-anodized structural aluminum frame and tempered glass panels. Being personally familiar with the design and costs of such systems, the estimate that he provided was more than fair and we signed a contract in January. By the time that you read this article, our pavilion should have its new curtainwalls, sliding windows for ventilation, and a new tile floor set over our original concrete slab. Finally, new benches will be ordered and they will be more streamlined than the older “log-type” rustic units. Their major benefits will be in providing more seating capacity and providing a more ergonomic fashion of entry and egress. Some of these older picnic tables will be set around our property and some will be donated to the town’s Heater’s Pond recreation area. ✂

Ultraviolation 30th Annual Show

OCTOBER 26, 2019

LEE MCILVAINE

8510 ELLISTON DRIVE
WYNDMOOR, PA 19038

Adapted with permission from the *UV Waves*,
Volume 49, Number 6, November – December 2019

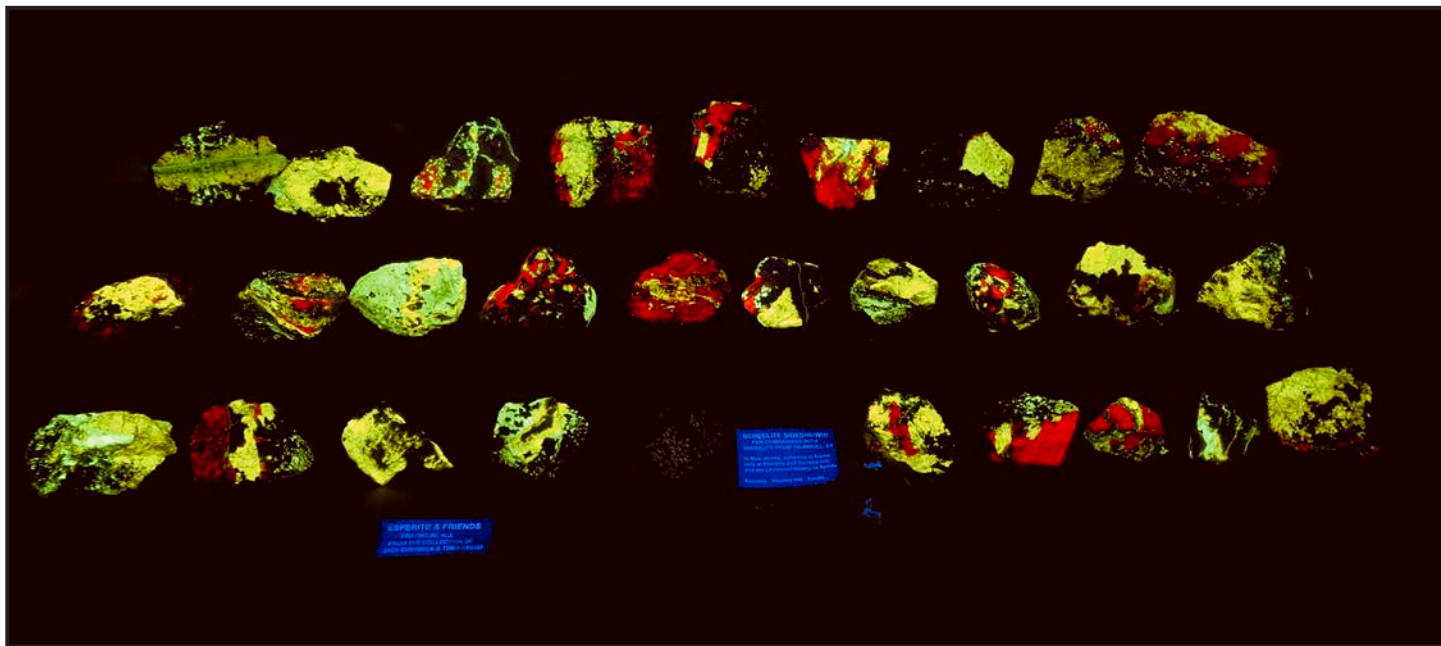
SHOW HISTORY

Wow. As I was putting away the equipment, signs, and other parts necessary for the Ultraviolation Show, a few weeks after the show happened, it gave me time to reflect and recall that this show has now been glowing strong for 30 years! I have attended all (or almost all) 30 shows, but it has only been for the last two years that I have served as the chairperson. In 2018 I agreed to take over Ultraviolation not knowing exactly all that would be required. I had no prior experience running a mineral show. I was nervous about taking on the responsibility of organizing, promoting, and running this show, but I didn't want the show to end. Well, with the help of others, and my rookie year behind me, we were able to build on experience for the 2019 show.

First, I am pleased to report that this year's show had a 33% increase in attendance (30 more paying adults). While it is hard to evaluate if the increased attendance was a direct result of marketing, we made an effort this year to promote the show. This year we conducted some online advertising and added ten street signs to draw people in from the community. The online advertising included focused advertising on Facebook for several weeks before the show (special thanks to Mark Cole) and online advertising through a local newspaper. We also continued to poll the adult attendees at the entrance table to find out how they had heard about the show. Among the attendees, I was pleased to see a well-known author and Fluorescent Mineral Society (FMS) Hall of Famer, Manny Robbins, for the first time in a few years. We will try to continue to build the show's attendance even more next year. You have to come see Ultraviolation in person; nothing else compares!



The light before the darkness as the fluoresophiles begin to flock. *Photo by John Smith.*



Richard Bostwick and Tema Hecht's display case of esperite from Franklin, N.J., in shortwave UV light. *Photo by Howie Green.*

VOLUNTEERS AND SPONSORS

Ultraviolet is a strictly volunteer, noncommercial, club-sponsored venture. It is important to recognize the volunteers whose hard work and passion for fluorescent minerals enables this enjoyable time of fellowship and exchange of fluorescent minerals. This year's Ultraviolet was again co-sponsored by the Rock and Mineral Club of Lower Bucks County (RMCLBC) and the UV Nomads, a group of fluorescent mineral enthusiasts who organize fluorescent mineral field trips several times a year, mainly along the east coast of the U.S. and Canada.

Notable contributors to the setup, running of the show, and cleanup from this event were members of the FMS Northeast Region Fluoresophiles (NERFs): Lee and Charlotte McIlvaine, Howie Green, and Christel Hoffman. Dick Braun and Juan Proano from RMCLBC graciously came Friday afternoon before the show to set up the tables and run the custom power cords in the event hall in Fairless Hills, Penn., located north of Philadelphia and just south of Trenton, New Jersey. One of the new additions to this year's show was several lengths of dimmable red LED rope lights outlining the dealer tables along the floor. These lights helped attendees navigate, especially when they first entered the darkened room.

2019 FLUORESCENT MINERALS

Speaking of the darkened room, the great part about Ultraviolet is the variety of fluorescent minerals available. This year there were 18 dealers selling fluorescent minerals

from all over the world; the most numerous rocks at the show were specimens from the Franklin and Sterling Hill mines in New Jersey, available in all price ranges. Many other classic localities and fluorescent species were well represented, including Greenland, Sweden, agrellite and meionite from Canada, and some specimens from old-time collections.

Each year there always seems to be something completely different available. This year, some of the highlights included fluorescent minerals from Iceland, and Colombia, and corundum from upstate New York. The fluorescent mineral specimens from Colombia included some small crystals of apatite and lighter (daylight) colored emeralds (fluorescent in longwave [LW] UV deep red). Another highlight was newer material from the Rose Road area near Pitcairn in upstate N.Y. The specimens from here included small nodules (<1 inch), which contained scapolite (FL LW yellowish-orange) on the outside surrounding a small core of corundum (FL LW dark red). Splitting open these nodules provided a nice two-color LW specimen. A few of the nodule specimens also included some blue-white fluorescence (SW) adding a third color. I know that there was more that I missed since I had to focus much of my time on running the show.

UV LAMPS

I can honestly say that over the last few years Ultraviolet has become among the best, if not the best show (in my biased opinion) to see, handle, use in-the-dark, and buy many of the newest and most popular handheld UV lamps for our

hobby. This is largely due to the effort and dedication to the hobby of Patrick Bigos (Midnight Minerals), who sells Way Too Cool UV lamps, and Rhett Peterson and Nick Brown of Engenious Designs. Their respective trips to attend Ultraviolet are not short efforts. Patrick has an 8- to 10-hour drive each way coming from York, Maine, and Rhett and Nick fly in from the Midwest. I would be remiss if I did not also mention the more local mineral dealer Gary Moldovany (Just Keep A Rockin'), who in addition to selling Franklin/Sterling and other fluorescent minerals specimens also has UV lamps, and Geiger counters for sale, for those who enjoy "hot" fluorescent minerals.

This year in the way of UV lamps Patrick Bigos offered the popular Convoy S2+ flashlights, the new larger Convoy C8 LW UV LED Flashlight, and other "Way Too Cool" lamps ranging from field-collecting lamps to full-sized display lamps. Rhett and Nick had their newer compact "Fyrfly" LW UV LED flashlight, and the "GLW Stick" and "DRK Light" SW lamps. Now, if someone would just make a powerful SW LED flashlight. With 2020 starting a new decade, I dream that we might see a SW LED flashlight before the end of this decade.

2019 FLUORESCENT DISPLAYS

Once again this year, Dick Bostwick and Tema Hecht put together a spectacular display of Franklin, N.J., fluorescent minerals. The theme of this year's case was esperite (and friends). There was so much esperite in the case that close



Howie Green's longwave UV display – lit entirely by LW LEDs. *Photo by Howie Green.*

viewing made my lips pucker (too much lemon yellow) as I was simultaneously drooling over the quality, quantity, and variety of the esperite specimens. Truly a "WOW" case. The photograph does not do the display justice as esperite is notoriously difficult to photograph accurately.

The second great display was Howie Green's longwave UV case, which included substantial specimen upgrades from his beautiful LW case at last year's show. It featured so many bright and beautiful LW specimens, and some with multiple colors. It's not so easy to put together a colorful LW-only fluorescent case that is not just full of fluorites and sodalites.

In summary, UV lamps were purchased, many rocks changed hands, and the fluorescent displays were beautiful. Thanks again to the show sponsors, volunteers, exhibitors, and all the dealers for making Ultraviolet one of the best days of the year to be a fluorescent mineral collector!

Happy New Year and save the date for Ultraviolet 2020 on Saturday, October 31! Yes, it's Halloween this year! ✂



Bergur E. Sigurðarson displays his mineral specimens from Iceland, and from Colombia, South America. *Photo by John Smith.*

The 63rd Annual Franklin-Sterling Gem & Mineral Show

SEPTEMBER 28 AND 29, 2019

STEVEN M. KUITEMS, DMD

14 FOX HOLLOW TRAIL

BERNARDSVILLE, NJ 07924

smkuiteims@gmail.com

On this fine fall weekend, folks from all over the Northeast gathered in Franklin, N.J., to enjoy the 63rd annual Franklin-Sterling Gem & Mineral show.

Inside the Littell Center were three spectacular daylight exhibits, eight showy fluorescent exhibits, and thirty-one indoor dealers (the most ever for this venue). Outside there were many “swappers.”

While there were only three daylight exhibits, there certainly was plenty to fascinate the advanced collector and the novice.

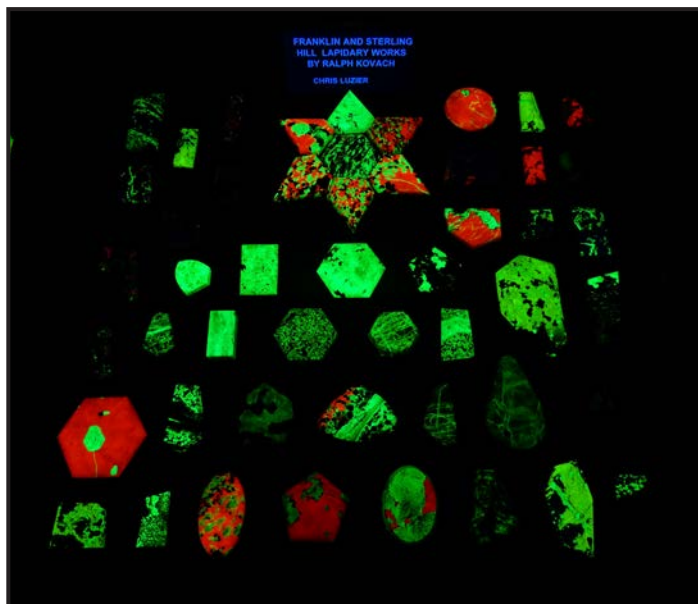
The Franklin Mineral Museum’s display was titled “Pretty in Pink,” and presented about two dozen Franklin and Sterling Hill mineral species that are some shade of pink. Front and center were two spectacular items; a hot-pink bladed mass of lustrous rhodonite crystals from the Sterling Mine, and from Franklin, a vug of pale pink clinohedrite crystals with two large charlesite crystals perched on top. Other Franklin rarities abounded, including deep-pink sarkinite in a calcite vein, and the largest pink calcite crystal known from the Franklin Mine. As for Sterling Hill rarities, rare pink piemontite was shown, and pink radial crystals of miguelromeroite from a one-time find.

Dick and Elna Hauck presented “New Jersey Zinc History,” an impressive array of local mining memorabilia, most of it from the New Jersey Zinc (NJZ) Company. This included an ashtray, a paperweight, a matchbox holder and letter openers. There were also assorted miners’ tags, a complete set of tie clips and pins recognizing years of service with NJZ, shift boss watch fobs, penknives, anniversary souvenirs, and even an NJZ paper matchbox. The rarest item I spotted was a Franklin Fire Company #2 badge.

The third display was by your reporter and was titled “Franklin Classics.” This exhibit consisted of medium-to-large cabinet specimens from the district, including three Franklin rhodonites, one of which (dated 1914) has what appears to be a large twinned crystal. There was also a pink Sterling Mine rhodonite associated with gemmy yellow willemite. Another classic specimen, collected from a Franklin Marble exposure near Cork Hill Road in Franklin, displayed three large crystals of dravite. Then there was a large group of dodecahedral franklinite crystals from the Franklin Mine. The kicker, a true antique, was a doubly terminated willemite crystal from the



Dave Woods and Beth Graycar at the FOMS outdoor swap, selling some of the classic mineral specimens they've acquired over the years. (Good stuff, too.) *Photo by Tema J. Hecht.*



A panel from Chris Luzier’s display of Ralph Kovach’s fluorescent cabochons from Franklin and Sterling Hill, seen under shortwave ultraviolet light. Ralph is one of our local treasures and Chris thoroughly appreciates his work. *Photo by Tema J. Hecht.*

Franklin Mine that had been collected by William Jefferis in the 1870s. Early geologists and mineral collectors were fascinated by the relative abundance of large euhedral mineral crystals at both zinc mines.

The fluorescent exhibits were coordinated by Richard Bostwick. The Franklin Mineral Museum's case was titled "Veins and Bands," but boudins were also represented. Veins are sheet-like bodies of minerals, often crystallized, that are deposited in cracks. Bands are specimens with layers of minerals that display color differences. Both are different from boudins, which are sausage-shaped. Among these specimens was a large norbergite-with-diopside boudin in Franklin Marble, responding yellow and blue under shortwave (SW) UV, and a spectacular "butterfly pair" with matched halves of a sawn esperite band from Franklin. My favorite was a cascading multiple-vein, green-fluorescing willemite specimen from the Sterling Mine, with bright-red-fluorescing calcite and black grains of franklinite.

Your reporter presented a case of "Franklin Delights" with many classic fluorescent minerals from the Franklin and Sterling Mines. There was a most unusual clinohedrite vein in altered hardystonite, collected in the early 1980s from Franklin Mill Site #2. There were also wispy esperites, esperite rings, willemite crystals, and an unusual "dead zone" willemite in Sterling Hill ore. Two specimens from the Sterling Mine exhibited unique striated patterns of green willemite, caused by shears in the orebody; these can be invisible in daylight but are readily seen under a SW UV lamp.

Denis DeAngelis's case was called "Shortwave Sunshine" and as always was visually stunning. Two spectacular white-to-blue-fluorescing margarosanite specimens flanked a rich, fist-sized, orange-fluorescing cuspidine. There was also a large

example of "Peaches and Cream," a mixture of willemite and calcite given that nickname for its presumed resemblance to that dessert.

Alex and Gary Kerstanski displayed a case titled "Franklin and Sterling Hill Classics." Front and center was a huge white-fluorescing barite in red-fluorescing calcite, a specimen that dominated the case. A pair of clinohedrite specimens also riveted the viewers' eyes by fluorescing bright orange under SW UV; they were split from a single rock, hence called a butterfly pair. Less bright but also remarkable was an unusual blue- and red-fluorescing calcite from a surface find at the Sterling Mine. There was also a large five-color specimen of esperite, calcite, clinohedrite, willemite, and hardystonite, which made me smile. As collectors of fluorescent minerals know, specimens with multiple colors under any wavelength are particularly prized.

Chris Luzier exhibited two cases, "Franklin and Sterling Hill Lapidary Works by Ralph Kovach" and "Hardystonite Crystals." The exhibit of Ralph's work was welcome as it has been a long time since the last significant display of lapidary material from the local mines. Four large panels of cabochons and several larger specimens and carved forms made a spectacular display. Noteworthy were several intarsias, one with petedunnite in the center and another with barite surrounded by red-fluorescing calcite. There were rare minerals such as esperite and hardystonite, and an intriguing six-rayed star made from willemite and calcite. This contrasted with Chris's second case, with its twenty specimens of violet-fluorescing hardystonite crystal specimens in fluorescent calcite and willemite, some with clinohedrite and esperite. Hardystonite crystals, found only in the Franklin Mine, are prized by collectors.

Andrew K. Mackey presented a case titled "In Memory of Andrew R. Mackey," a selection of willemite-in-calcite specimens, mainly from the Sterling Mine in Ogdensburg, N.J. Noteworthy was the piece of ore with a label that stated, "One of the last pieces of ore brought out of the Sterling Hill Mine. This piece of ore was collected off the conveyor from the mine by Peter Mackey."

Mark Leger and Denis DeAngelis placed a case, titled "More Shortwave Sunshine," that featured ten large fluorescent specimens. These included third-find wollastonite in calcite, barite in calcite, and a fine example of orange-fluorescing clinohedrite on violet-fluorescing hardystonite. It was also good to see, front and center in the display, a rare orange-and-pink-fluorescing cabinet specimen of pectolite and prehnite from the Franklin Mine.

These displays were a true feast for the eyes of all those interested in the minerals of Franklin and Sterling Hill. Thanks to all who displayed their specimens, and to the staff who made this display event possible. ✂



Ken Reynolds displaying his famous ear-to-ear grin after winning some choice auction items. In the background, Stephanie Koles appreciating her new possessions, and wondering where a lady can get a drink. Photo by Tema J. Hecht.



The Dynamic Duo: Franklin Town Councilmen John Postas (left) and Phil Crabb. John is a third-generation Franklinite and a board member of the Franklin Mineral Museum. His barbershop on Rutherford Avenue is a gathering place for local mineral nuts, and he reputedly can be seen, after business hours, collecting on the Franklin dumps. Phil owns the wedge of land between High Street and Main Street in Franklin, and hosts field trips on his property, at and near an original outcrop of the Franklin orebody. Both are enthusiastic conservators and promoters of the local mineral scene. Talk to them! *Photo by Tema J. Hecht.*



Mike Pierce and Elna Hauck, whooping it up at the FOMS banquet. *Photo by Tema J. Hecht.*



"Carbide Man" Alex Kerstanski (center) acquiring wisdom from his elders, Pat Bigos (left) and Chris Luzier. *Photo by Tema J. Hecht.*



California mineral collector and photographer Jim Horste with Zack Bonard, who has just acquired Jim's book, *Fluorescent Minerals of New Jersey*, at auction. Both appear quite cheerful over the outcome. *Photo by Tema J. Hecht.*



Bob Batic in shock after his winning bid for a rare underground sign from the Sterling Mine. *Photo by Tema J. Hecht.*



George Hanna (left) and Artie Grimes, savoring the ambience of the FOMS banquet while recovering from a food overdose. *Photo by Tema J. Hecht.*

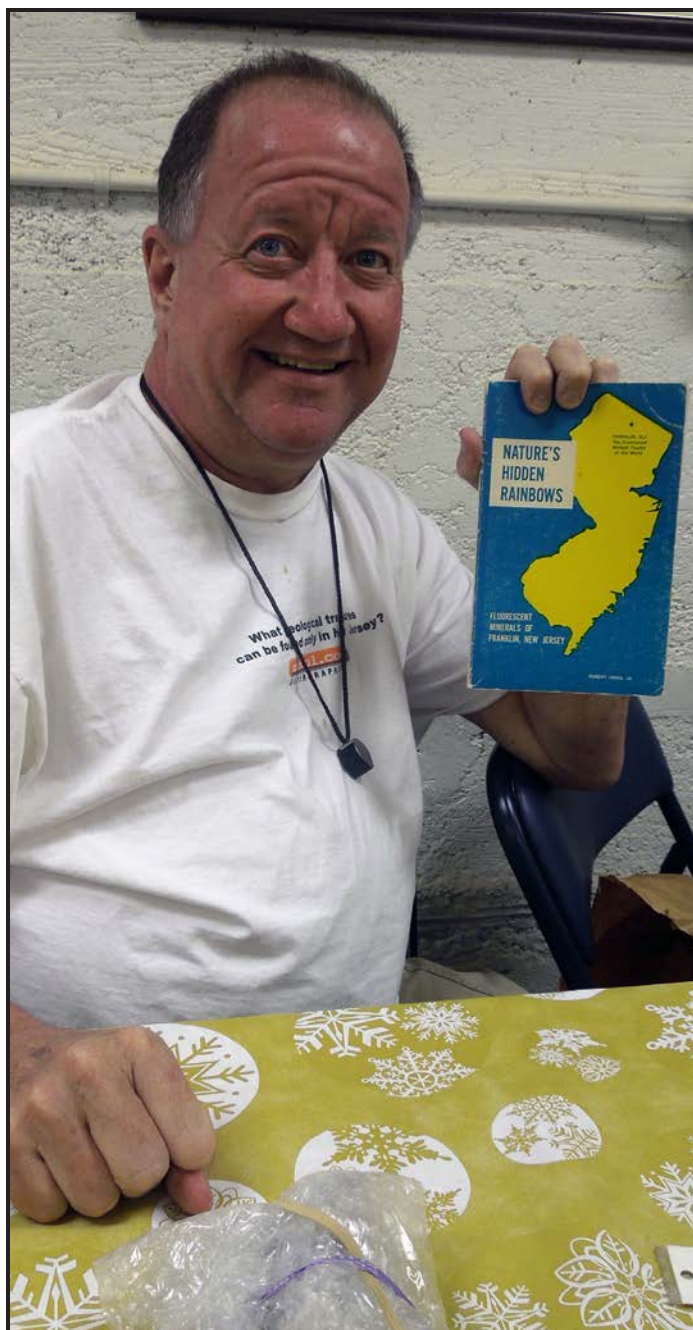


Photo by Tema J. Hecht.



Thank You, Rich!

JAMES VAN FLEET
222 MARKET STREET
MIFFLINBURG, PA 17844
javanfleet8@gmail.com

Hobbies that interact with real people in the real world, and not the digital one, seem old-fashioned. The ranks of volunteers are aging and sometimes seem a bit thin! The folks who put in the effort and see the value and importance of the work that needs to be done, and take it on without any tangible reward, are, to borrow a meme, “priceless.”

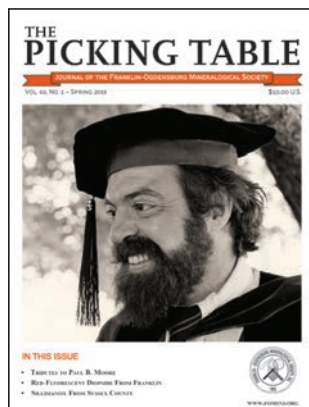
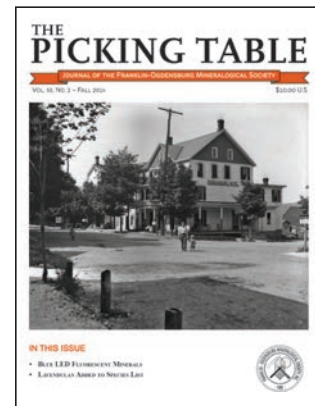
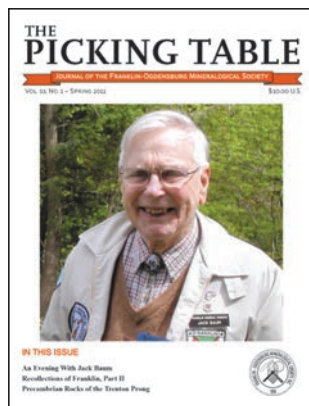
Rich Keller fits that description! He took on the editorial duties for *The Picking Table* at a time when it was in a bit of crisis, and very quickly whipped it into shape. Under Rich’s leadership, the official journal of the Franklin-Ogdensburg Mineralogical Society published 18 issues over 9 years. They comprised 72 regularly appearing columns and 134 feature articles, filling 596 pages cover to cover, and including a whopping 785 photographs and illustrations.

Equal parts club business, entertainment, and education, *The Picking Table* (PT) maintained its character through Rich’s leadership and the efforts of his editorial team. I’m just beginning to get a look behind the curtain, and its scary how much work, communication, and coordination go on behind the scenes to make *The Picking Table* happen. Getting folks to write for the journal is just the tip of the iceberg.

Rich is responsible for bringing *The Picking Table* into the 21st Century, by scanning the entire run of the first 50 years, and putting it on a CD. How many of those did you burn, Rich? This also allowed our webmaster Bill Pazik to load the PT onto the FOMSNJ.org website, making it searchable, and making back issues free to read or download.

Rich’s efforts have not gone unnoticed. The issues published in 2016 were submitted to the Eastern Federation of Mineralogical and Lapidary Societies annual awards contest, and won recognition in the category of “large bulletins.” A letter from the American Federation of Mineralogical Societies judged *The Picking Table* to be “one of the TOP TEN in North America!” [their emphasis]. In addition, in 2019 *The Picking Table* was inducted into the Fluorescent Mineral Society Hall of Fame. In the mineral collecting community, that is some elite and very select company!

Thanks, Rich, for carrying on a tradition stretching almost 60 years. You left some big shoes to fill! ✂



Thomas Alan Hauck

ELNA HAUCK

43 WOODLAND ROAD
FRANKLIN, NJ 07416

Tom Hauck was born December 3, 1955, in Bloomfield, New Jersey. He was the youngest of five brothers with Fred being 23 years older, Richard 20 years, Robert 9 years and Jim 7½ years older. Tom graduated from Bloomfield High School and established his own automobile repair business, Hauck's Auto Repair. He married and had three children.

Living most of his life in Bloomfield, Tom moved to Sussex County in 2012. He worked with his brothers Richard and Robert at the Sterling Hill Mining Museum in Ogdensburg doing many needed jobs. His big passion was collecting barn and railroad lanterns.

Tom leaves behind his four brothers; his ex-wife Christina and their three children, Jason, Carly, and Adam; two daughters-in-law, one son-in-law, two grandchildren, many nieces and nephews, and many friends including two special ones, Virginia Arango and Fred Lubbers.

Tom touched many lives in a positive way. He is missed. ✂



Photo by Tema J. Hecht.

A Remembrance of Tom Hauck

MARK BOYER

25 CORK HILL ROAD
OGDENSBURG, NJ 07439

I've always liked Tom Hauck, even though I can't say that Tom and I were ever close friends. Actually he was just someone that I frequently crossed paths with, but now that he's gone, I realize how much of a real character he was and how much I miss him. No doubt he charmed countless people in the Franklin-Sterling mineral community with his winsome personality and emblematic visage of an old-time miner.

My first encounter with Tom was in 2006, via eBay of all things. I was heavy into collecting railroad lanterns at the time, and as I perused eBay one evening, I came across a listing for a rare lantern with a twisted wire frame and a teal blue globe. I knew I had seen that very lantern before, years ago when it was part of an exhibit in Zobel Hall at the Sterling Hill Mining Museum. That was my favorite lantern among the others on display, and I was saddened when for some reason it was removed from the exhibit — but now here it was on eBay. I really wanted that lantern so I put in a bid guaranteed to win. The seller had a curious eBay handle, “wife can't find out.”

When I contacted him, he told me I could pick up the lantern at the SHMM without incurring postage. The eBay seller with the funny name turned out to be Tom Hauck. That transaction was the first of many lantern deals between us over the years.

Over the years, Tom and I would buy, sell, and swap other lanterns and globes with each other. One rare lantern he acquired from me is an all-brass Dietz marine lamp with a super-rare chocolate brown globe. (I sure wish I had taken a picture of it before I let it go out of my collection!) Tom loved that one especially. I also procured for him some lantern globes of various colors, which was a mutual collecting specialty.

Tom was the handyman-in-residence at Sterling Hill, and his “apartment” in the mine office was a virtual museum of railroad and mining artifacts, lanterns, enamel signs, machine parts, and other decorative guy-stuff. He had the ultimate man-cave. No phony steam-punk junk — this was the real deal. He was not a mineral collector, but he did collect rocks with drill holes whenever he found them on the property of Sterling Hill.

Tom drove an old beat-up pickup with the SHMM logo on the cab doors. The bed and cab were often strewn with greasy tools and machine parts. He would drive past my house every day on his way to and from Sterling Hill, usually tooting his horn and waving when he saw me, but often stopping for a chat. Like me, he had some awesome specialized tools that you just don't find at those abominable big-box stores. Occasionally we borrowed each other's hard-to-come-by tools, like his timber jack or my railroad-tie tongs. Now that's *trust*. It's not like you can go to Harbor Freight and replace stuff like that. (And yes, sometimes a timber jack is the right tool for the job.)

Tom often solicited various handyman work, and I liked the way he did business — barter and cash on the barrelhead. Over the years he did various repairs on my dilapidated Chevy pickup truck, which no doubt extended its life. The last job he did for me was a tune-up and new drive belt for my old 1960s rototiller. I traded him four electric motors and a vintage stamped-metal bus stop sign for his services, and we both were happy.

He had an amusing way of expressing himself with a sort of easygoing philosophical ruminations, always with that characteristic Hauckian wry sense of humor and a distinctive laugh. A few years ago I hired Tom to help me put a new corrugated metal roof on my springhouse. He used a cordless impact driver to bolt on the roof sheets, and when he stripped a nut driver bit, I held out my hand to throw the ruined bit away for him. Instead Tom chucked it into my beautiful swamp. I was startled. "Tom," I said, "what did you do that for? I was going to throw it in the trash." He just gave a disarming smile and replied, "It's OK. A little metal is good for the ecosystem." The way he said it, it sounded like "ego-system." It made me chuckle, as I could just imagine my beloved maternal grandpa saying something like that.

In a way, Tom struck me as a big kid at heart, and I kind of envied him for that. How I wish I could have built a replica vintage mine camp like his "Tom-a-Hawk Mine" in the Saddle area of Sterling's back lot. The miner's shanty had a functioning woodstove and outside was a replica mine adit complete with tram rail and an ore car. I thought that was super cool. It's as if he saw the place as his playground.



Tom Hauck in the role of ghost miner "Bicycle Pete." Photo by Tema J. Hecht.

I'll always remember him dressing the part of Bicycle Pete, Sterling's famous ghost miner. Tom certainly looked like an old-time miner with his bushy gray mustache, suspenders, and vintage miner's cap and lamp. I regret not capturing his performance at the Haunted Mine event with my cell phone, but at least hundreds of people have that memory of him. If you ever met Tom Hauck, I'm sure you have special memories of him as well. Rest in peace, Tom. ✕

DYING TO GET YOUR NEW FOMS T-SHIRT? STOP HUNTING!!



Available in red, lime green, and blue as shown, and in sizes S, M, L, XL, 2XL, and 3XL.
Price is \$15 each regardless of size; for mail orders add \$5 postage.

STILL AVAILABLE!

(While Supplies Last)

The first 50 Years of
THE PICKING TABLE,
the “Official Journal of the Franklin-
Ogdensburg Mineralogical Society,”
on DVD in Adobe Acrobat PDF format.



Ninety-three issues, 2,256 scans, and hundreds upon hundreds of both B&W and color photos of minerals, events, collectors, as well as articles, event schedules, past officers and editors, mineral descriptions, etc.

All pages have been scanned from ORIGINAL issues of the *PT*. In some cases “imperfections” will be evident, such as yellowing of 50-year-old paper and the occasional marginal note, but all literary inclusions are clearly legible and the photos are true to the originals.



The knowledge you will acquire as you read through these issues will be evident.

Price for the 2-DVD set is \$35.00, plus \$5.00 shipping. Personal checks should be made payable to “FOMS” and mailed to Denise Kroth at:
Sterling Hill Mining Museum,
30 Plant St., Ogdensburg, NJ 07439.
Technical support is provided by Richard Keller
(e-mail: PTMemberFeedback@gmail.com).

Genthelvite from Franklin, New Jersey

RALPH AND ZACK BONARD

44A MAIN ST

OGDENSBURG, NJ 07439

Over time my son Zack and I have had the opportunity to obtain a vast quantity of mineral specimens, from a number of local collections. One Franklin collection that we've been periodically buying from has generously yielded some great Franklin treasures. Over time we have been able to obtain two very nice minehillites, vesuvianite crystals, radiating willemite with esperite, radiating margarosanite, radiating wollastonite, prehnite with roebelingite, and the list goes on. Some of these pieces are now in the collection of the Franklin Mineral Museum. One of the oddities we obtained late last summer was an approximately two-inch piece of what appeared to be massive pale-green willemite.

In daylight it's an almost perfect match in look and texture, it was nearly impossible to tell the difference. But under shortwave (SW) UV (254 nm) light the fluorescence was dull green. We knew right away there was something different about this piece. Others we showed the piece to also thought it was just another green willemite. But under longwave UV (364 nm) the fluorescence was an odd shade of bright green.

At the fall 2019 Franklin Mineral Show I decided to show the specimen to Jim Van Fleet and we discussed the anomalies of the piece. Jim offered to run an X-ray diffraction (XRD) analysis. I didn't see Jim again until the November board meeting at the Franklin Mineral Museum. At the end of the

meeting Jim came over and handed me a bag with the piece and the paperwork and asked me if I knew what I had there. When he told me the test results matched Franklin genthelvite, a few others and I were quite surprised and excited. Immediately Mark Boyer and I went looking to see if the museum had any specimen even close to this quality from Franklin and there was nothing in the museum collection. Many Franklin genthelvite specimens, such as those found in the petedunnite assemblage, are very small crystals in matrix, hardly visible without magnification, making this an astonishing and very significant discovery. Right away we agreed this was a specimen that must be in the museum's collection. In the following days I met with Dr. Earl Verbeek, curator for the Franklin Mineral Museum. As soon as Earl saw the specimen he was very excited and surprised at the size and quality of it. We worked out an agreement over the next few weeks and the museum got what is certainly the largest known specimen of Franklin genthelvite. As the months have passed, I have had many conversations with people regarding this piece. We have discussed its striking similarity in appearance, density, and texture to common pale green willemite. As Earl pointed out, genthelvite has a fairly high specific gravity (3.44-3.70), not much lower than that of willemite (3.89-4.10), so could easily be mistaken for willemite by a casual observer.



Green willemite (left) and genthelvite (right) in daylight. The genthelvite specimen measures $4.4 \times 3.4 \times 2.3$ cm ($1\frac{1}{4} \times 1\frac{1}{4} \times \frac{7}{8}$ inches). *Photo by Earl Verbeek.*

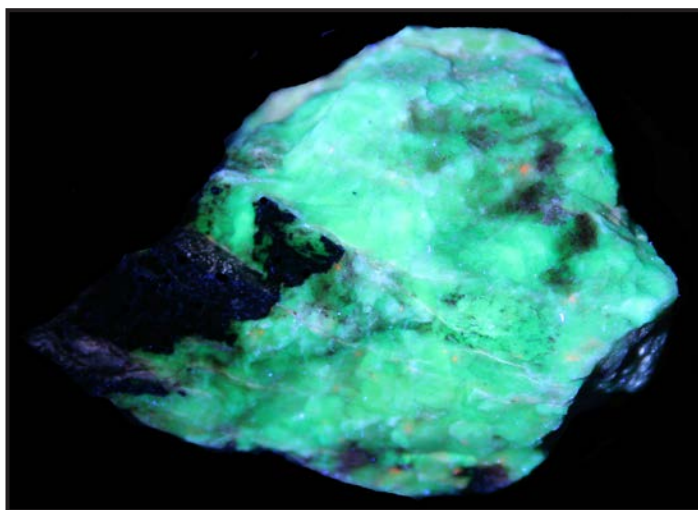
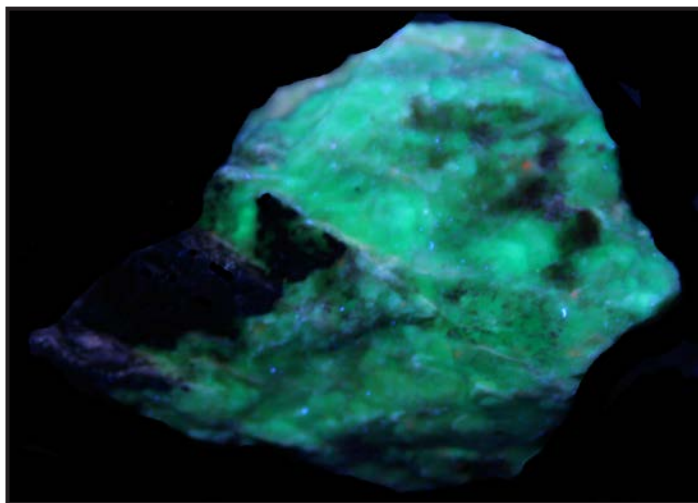


It's also easy to believe that more of this material has probably gone through the hands of miners and collectors over time and been passed off as a nice daylight green willemite, with poor fluorescence. With that being said, there is a great lesson to be learned here. Discoveries like this are the reason we scrutinize every single piece we come across by eye, under all wavelengths of UV light, and through magnification. The Franklin and Sterling ore bodies produce things that have never before been seen. When you think you've seen it all or know it all, something comes along that defies all conventional knowledge. In the world of FROG, you just never know.

THE LAB ANALYSIS

A sample was chipped from Ralph's specimen, crushed, and carefully sorted under a microscope, with the help of UV light. The sample was powdered and placed on a nonreflective ceramic stage. This was analyzed through a two-hour X-ray diffraction (XRD) test. The instrument used was a Philips (now PANalytical) X'Pert Pro MPD powder diffractometer with a Cu-K α radiation source. X-ray settings were 45 kV and 40 mA. The analysis software used was X'Pert Highscore, which matches the resulting diffraction peaks to an internal library of identified minerals.

This initial XRD test yielded a maximum peak of over 17,000 counts, and a sharp set of peaks, conforming very closely to a known pattern for genthelvite. The observed peaks matching the known strong reflections (d-spacings) for this mineral are at 3.31 Å (100% relative intensity), 2.17 Å (16.9% relative intensity), and 1.91 Å (29.4% relative intensity). The specimen best matches an iron-rich variety of genthelvite, with a formula of $(\text{Zn},\text{Fe})_4\text{Be}_4(\text{SiO}_4)_3\text{S}$; the pattern reference code is 00-013-0114. ✂



Genthelvite specimen in daylight, under shortwave UV light, and under longwave UV. Photos by James Van Fleet.

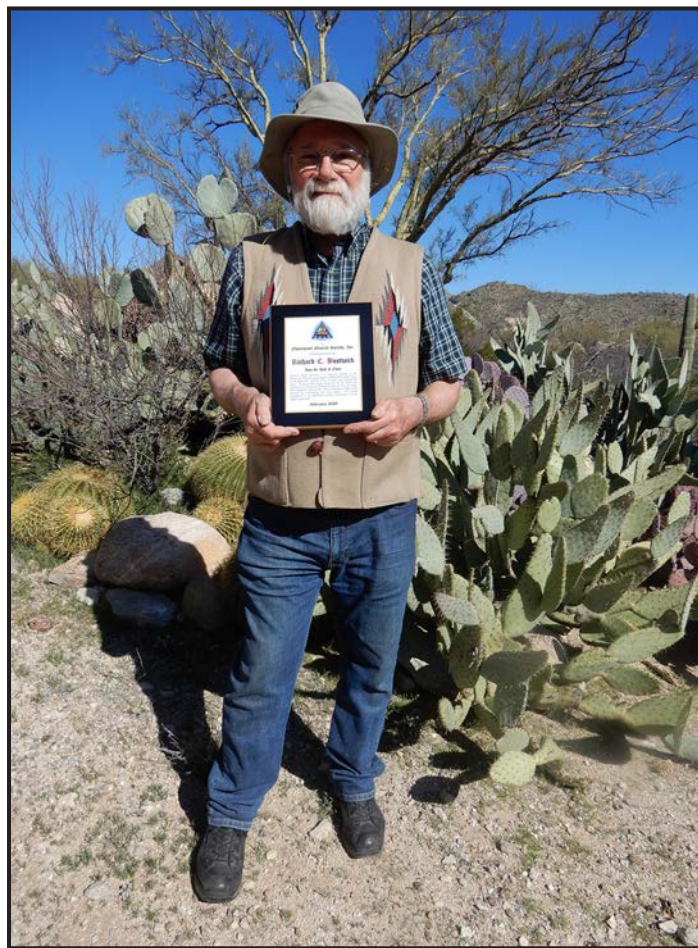
A Collector's Saga

AS TOLD TO ANNA MANUENSIS

Richard C. Bostwick, nicknamed Dick, grew up in Blairstown, N.J., 25 miles from Franklin. His lifelong interests have been reading, writing, and collecting. Dick collected stamps until 1960, when he was introduced to fluorescent minerals by Mrs. E. Packard “Sunny” Cook, a co-founder of the Franklin-Ogdensburg Mineralogical Society, Inc. (FOMS). Sunny had worked for Tom Warren of Ultra-Violet Products, Inc. and she conspired with Dick’s parents to get him a shortwave Mineralight for Christmas, then loaned him a battery pack so he could hunt minerals on the Franklin dumps, day and night. She also introduced him to the Franklin and Sterling Hill collecting community with its collectors, geologists, miners, and annual mineral show. At Yale, Dick aced his freshman geology class and was his lab instructor’s field assistant in the summer of 1962, but that fall he couldn’t hack calculus and physics, and switched his major from geology to English literature. In 1964 he was offered a summer internship by New Jersey Zinc’s geologist, John L. Baum, and worked underground at the Sterling Mine for five weeks, until the miners went on strike. After graduating from Yale in 1965, Dick had varied experiences, including highway construction, grad school, and the military. He also worked in the Foreign Collection Breakdown Dept. at H.E. Harris (“World’s Largest Stamp Firm”).

In 1974, through his connection with Sunny Cook, Dick and his wife, Susan Sanford, migrated to San Gabriel, Cal., to work for Tom Warren at Ultra-Violet Products, Inc. There, under Tom’s tutelage, Dick learned how to label and price fluorescent minerals, sell Mineralights, attend mineral shows, give (choke) talks to rock people, and write articles “for the trade.” He remains eternally grateful to Tom for many things, including making him join Toastmasters. In the years since, Dick has not stopped talking.

At this time the budding Fluorescent Mineral Society (FMS) had its meetings at Ultra-Violet Products, Inc. Dick joined the FMS as member #174 and got to know its founder, Don Newsome. However, Susan became unhappy with Los Angeles, and after a year she and Dick returned to New Jersey. He applied for a job at the Sterling Mine, and for some months commuted to work with John Kolic and Susan’s brother, Steve. Dick was sent to the North Orebody (NOB), the deepest part of the mine, where in a year and a half he progressed from helper to drill runner, working in square-set pillars – a mining method that dates back to the Comstock Lode, circa 1860. Though the NOB had almost no fluorescent minerals other than sphalerite (then a drug on the market), Dick persisted in lugging out NOB specimens in his oversized lunchpail. Then Dick was sent to the lower section of the main orebody and dislocated his ankle



A man, a plaque, a cactus. Photo by Tema J. Hecht.

by falling off a ladder. After months of convalescence, Dick returned to the mine but could no longer handle a Gardner-Denver 53 jackleg drill with dexterity, so in late 1978 he joined a friend in Maine and became a shipfitter at Bath Iron Works.

Two years later he was invited back to New Jersey by his friend and fellow collector, Dr. Warren Miller, to work as a salesman, writer, and editor for SPEX Industries, Inc. in Metuchen. Much of Dick’s time at SPEX was spent going to trade shows and working in SPEX’s demo lab to grind and press customer samples into discs for X-ray fluorescence (XRF) analysis. He also taught XRF sample prep at an XRF workshop run by the International Centre for Diffraction Data, and edited and wrote much of the *SPEX Handbook of Sample Preparation and Handling* (now in its 14th edition). Dick is also grateful to SPEX for sending him to trade shows all over the country, while keeping him employed during his divorce in 1992. He kept that job for 35 years.

From 1980 on, Dick became more and more committed to the Franklin *mineralculture* (a term coined by Dr. Pete J. Dunn). He collected, he displayed, he wrote. When his marriage fell apart in 1989, Susan got the house, her home business, and primary custody of their children, Ruth and Richard. Dick kept his collection.

In 1993 Dick married Tema Hecht, a music librarian who had minored in geology at college, and they have been partners in the local mineral community ever since. Both are on the editorial board of *The Picking Table*, have written for the *PT*, and were its managing editors from 1994 through 1999. Tema has also taken many photos for the *PT*. She and Dick are currently trustees of the Franklin Mineral Museum, as well as life members of the Franklin Mineral Museum and the Sterling Hill Mining Museum. Tema is now FOMS secretary, while Dick is a FOMS past-president and now a trustee, and both have long been involved with the northeastern chapter of the Fluorescent Mineral Society. They have also exhibited specimens from their collection at the Sterling Hill Mining Museum, the Franklin Mineral Museum, the spring and fall mineral shows in Franklin, the NJ Mineral, Fossil, Gem & Jewelry Show in Edison, Ultraviolation, the Denver Gem & Mineral Show, and the Tucson Gem & Mineral Show.

In the 1970s Dick began helping Jack Baum compile the checklist of the fluorescent minerals found at Franklin and Sterling Hill, a list that appeared each fall in the program of what is now the Franklin-Sterling Gem & Mineral Show. In 1958 there were 26 minerals on that checklist. By 1981, when Dick took over the list from Jack, there were 55. In 2018 the total had grown to 99 and is still increasing. As the checklist grew, it became more important to authenticate the species on that list. In this effort Dick was extremely lucky to have assistance from Dr. Pete J. Dunn of the National Museum of Natural History (part of the Smithsonian Institution), who was then writing his monograph, *Franklin and Sterling Hill, New Jersey: The World's Most Magnificent Mineral Deposits*, published in 1995. Pete allowed Dick to examine, under UV, many verified specimens of Franklin and Sterling minerals in the national collection, and gave Dick much helpful advice as well as incisive and constructive criticism.

Dick and Tema have also had a longstanding friendship with Dr. Earl R. Verbeek, who had a career with the United States Geological Survey and Bureau of Land Management before retiring to New Jersey. He is now curator of the Franklin Mineral Museum, but in the 1990s was on the staff of the Sterling Hill Mining Museum. In 1996, Earl, Tema, and Dick all participated in the FMS's 25th Anniversary meeting and display in Tucson. Earl was the central figure in creating the Thomas S. Warren Museum of Fluorescence, housed in the GeoTech Center of the Sterling Hill Mining Museum. The Warren Museum is the largest such museum in the world, with

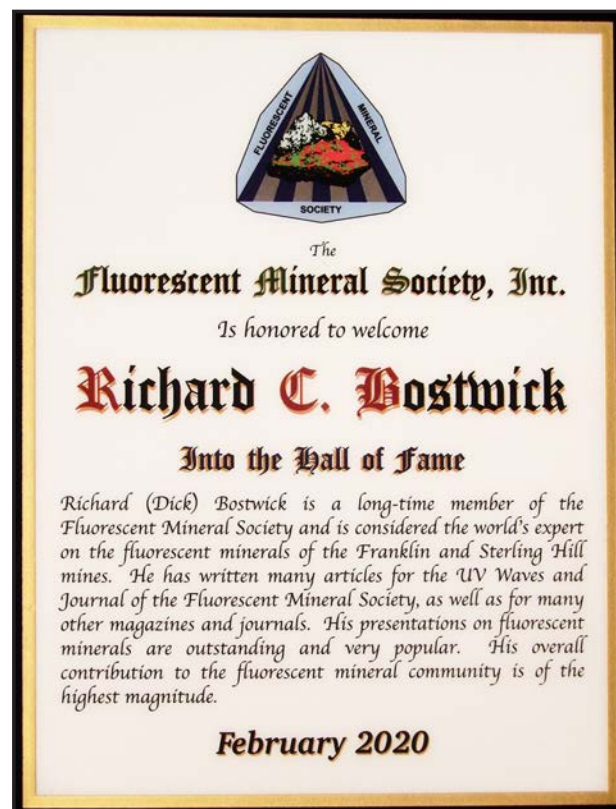


Photo by Tema J. Hecht.

at least half of its specimens on loan from Dr. Verbeek. Tema and Dick assisted Earl in this project and supplied about a tenth of the specimens on display. Dick and Earl each wrote one of the four chapters in *Ultraviolet Light and Fluorescent Minerals*, published by Tom Warren in 1995.

Dick also acknowledges the help and friendship he has received over the years from Richard Hauck (also nicknamed Dick), co-founder of the Sterling Hill Mining Museum with his brother Bob. When someone has been so important in one's life for so long, it's impossible to quantify one's debt.

Dick Bostwick has written articles for *The Picking Table*, the *Sterling Hill Newsletter*, *The Mineralogical Record*, *Rocks & Minerals*, *Rock & Gem*, *UV Waves*, and the *Journal of the Fluorescent Mineral Society*, as well as the Franklin and Sterling Hill chapter in *American Mineral Treasures* (Lithographie, 2008); and "In the Sterling Mine," pp. 40-52 in *The Collector's Book of Fluorescent Minerals* by Manuel Robbins, Van Nostrand Reinhold Company, Inc., 1983. He is an honorary member of the New York Mineralogical Club, an honorary life member of the National Mining Hall of Fame and Museum, a Fellow of the International Centre for Diffraction Data, and now an inductee into the Fluorescent Mineral Society's Hall of Fame. The mineral bostwickite, from Franklin, N.J., was named for him in 1983 by Pete Dunn and Peter Leavens. ✕

JOHN PAZIK

1391 TRANSIT AVE
JACKSON, NJ 08527



Franklin-Ogdensburg Mineralogical Society, Inc.

Search

[» Home](#) [» About Us](#) [» Rocks/Minerals](#) [» News/Events](#) [» Literature](#) [» Contact Us](#)

Are you an experienced rockhound, interested in seeing what minerals contain potassium? Or are you just getting started in the hobby and want to see what calcite looks like? Regardless of how much you know about minerals, the website of the Franklin-Ogdensburg Mineralogical Society (FOMS) is a very useful resource, containing this information and much more. These features are embedded in the tabs located on the top of the main page of the FOMSNJ.org website, the menu bar, labeled About Us, Rocks/Minerals, News/Events, and Literature. On the About Us page one can find an up-to-date list of club officers and staff, as printed on the inside of the cover of *The Picking Table*. This is also where the site features flyers for promoting the website, and links to the websites of the main FOMS affiliates: The Eastern Federation of Mineralogical & Lapidary Societies, and the American Federation of Mineralogical Societies. On the Membership Form page, you can fill out your membership form online with Google Autofill and print it, allowing you to type your membership form as opposed to writing it. Finished membership forms can be mailed to the address provided. On the FOMS Memorial page are a number of eulogies dedicated to past FOMS members, a privilege extended to the families of FOMS members, as long as a eulogy or biography is provided. The FAQs page is an informative resource for those who do not know a lot about minerals, answering common questions such as, "Why do minerals fluoresce?" or "What types of fluorescent minerals are common?"

» About Us

[» About Us](#)
[» Membership Form](#)
[» Where We Meet](#)
[» FOMS Memorial](#)
[» FAQs](#)

Under the adjacent Rocks/Minerals tab, there is an up-to-date list of the minerals found in the Franklin-Ogdensburg area, and located underneath, the Franklin Mineral Search, where you can search for minerals by many criteria. You can search by mineral name, even if only part of the name is known, as the website searches to see if the mineral contains the text instead of seeing if it matches exactly. You can also search by fluorescent color under shortwave, midwave, or longwave UV light. You can search by the chemical elements that a mineral contains, and finally whether or not the mineral is from Franklin or Sterling Hill. Searching one of these criteria, you can click on a mineral name to see a description of the mineral and its chemical formula, its IMA status, its fluorescent properties, Mindat.org reference, references to it published in *The Picking Table*, or photographic images of mineral specimens. The Franklin-Ogdensburg Periodic Table page contains a color-coded interactive periodic table that allows you to click on an element from the periodic table and see what minerals include it in their chemical formulas, and whether those minerals are from Sterling Hill, Franklin, or both.

» Rocks/Minerals

[» Franklin Mineral List](#)
[» Franklin Mineral Search](#)
[» Franklin Periodic Table](#)
[» Our Fluorescent Favorites](#)

Under the News/Events tab, find details on upcoming and past events and field trips. Under Upcoming Events is a list of scheduled events posted as soon as they are confirmed. As the list is on the Internet, it will be updated to reflect changes and cancellations as soon as they are known. Underneath is the Junior Rockhounds webpage, which provides information about

FOMS's Future Rockhounds of America chapter, the Franklin Minors, open to young people aged 9 to 16. The next page, the Past Field Trips page, contains reports from past field trips, along with some pictures of the digs and discoveries. Anyone can help contribute to this page by emailing webmaster@fomsnj.org, with a write-up of FOMS's most recent field trip, along with some pictures of the event. The last two webpages of this section are the Events Archive page, which contains a list of past FOMS events, and the Club Links page, which has links to the websites of local rock and mineral clubs.

Under the Literature tab, you can find *The Picking Table* page, where you can find a list of all *Picking Table* issues since its inception in 1960. By clicking on one of these issues, such as "Volume 50, No. 1 – Spring 2009," you can view its cover, table of contents, and, if available, a PDF file copy of the entire issue. On the bottom left-hand corner of the webpage, there is also a search feature for the table of contents of each issue of *The Picking Table* by text, as well as the ability to search for

» News/Events

- » Upcoming Events
- » Junior Rockhounds
- » Past Field Trips
- » Events Archive
- » Club Links

» Literature

- » Picking Table
- » FMA Digest
- » Show Booklets
- » Charles Palache
- » Pete J Dunn
- » Franklin Glossary

Picking Table references to specific minerals. The Literature tab also offers free mineralogical literature, including the two issues of the *Franklin Mineral Digest*, published in 1958 and 1959 by the Franklin Mineralogical Association; Charles Palache's 1935 monograph *The Minerals of Franklin and Sterling Hill, Sussex County, New Jersey*; and a Pete Dunn bibliography from 2002. Other literature is also available, including complete scans of almost all of the show booklets from the past Franklin-Sterling Hill Gem and Mineral Shows, which contain historical mineral lists as well as advertisements. Another resource exclusive to the FOMS website is an ever-expanding Franklin Glossary of terms and definitions related to the Franklin Mining District, defining Franklin mineral, geological, and locational terms and some local jargon. In conclusion, the FOMS website is a fantastic resource for all club members, and anyone interested in our local minerals and activities, regardless of whether you are just getting started or have been collecting for 50 years. ✕

The Picking Table Issues

Picking Table Issue	Availability	Price
Volume 60, No. 2 - Fall 2019	Printed copy	\$10
Volume 60, No. 1 - Spring 2019	Printed copy	\$10
Volume 59, No. 2 - Fall 2018	Printed copy	\$10
Volume 59, No. 1 - Spring 2018	Printed copy	\$10
Volume 58, No. 2 - Fall 2017	Printed copy	\$10
Volume 58, No. 1 - Spring 2017	Printed copy	\$10
Volume 57, No. 2 - Fall 2016	Printed copy	\$10
Volume 57, No. 1 - Spring 2016	Printed copy	\$10
Volume 56, No. 2 - Fall 2015	Printed copy	\$10
Volume 56, No. 1 - Spring 2015	Printed copy	\$10
Volume 55, No. 2 - Fall 2014	**/Printed copy	\$10
Volume 55, No. 1 - Spring 2014	Printed copy	\$10
Volume 54, No. 2 - Fall 2013	Printed copy	\$10
Volume 54, No. 1 - Spring 2013	Printed copy	\$10
Volume 53, No. 2 - Fall 2012	Printed copy	\$10

****Available on website, select the issue and click on the link just below the Picking Table cover to view.**

The Picking Table, Table of Contents Archive

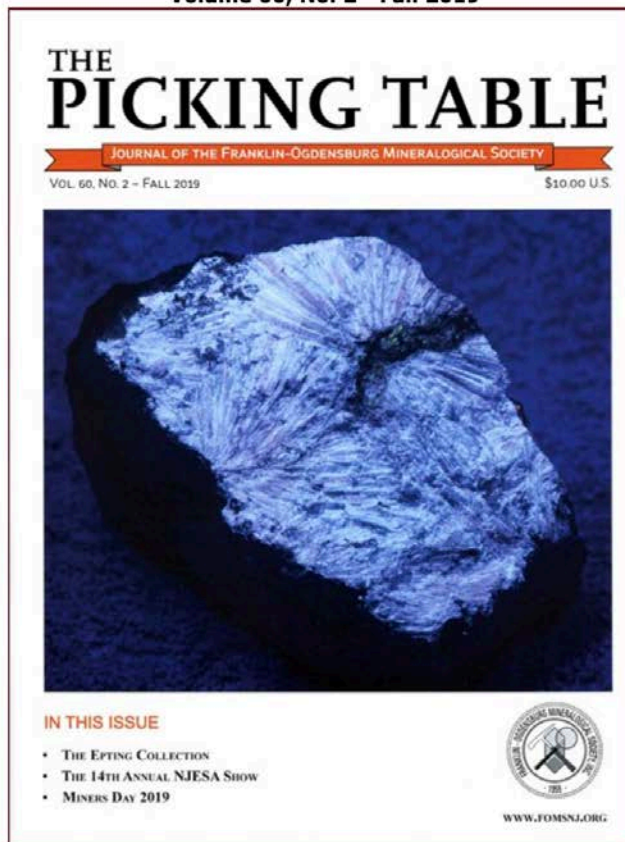
Search for partial word, word or phrase (3 character min.)

The Picking Table, Mineral References

Select Mineral

or [View All](#)

Volume 60, No. 2 - Fall 2019





Willemite Poem

TEMA J. HECHT

600 WEST 111TH STREET, APT. 11B
NEW YORK, NY 10025
thecht@att.net

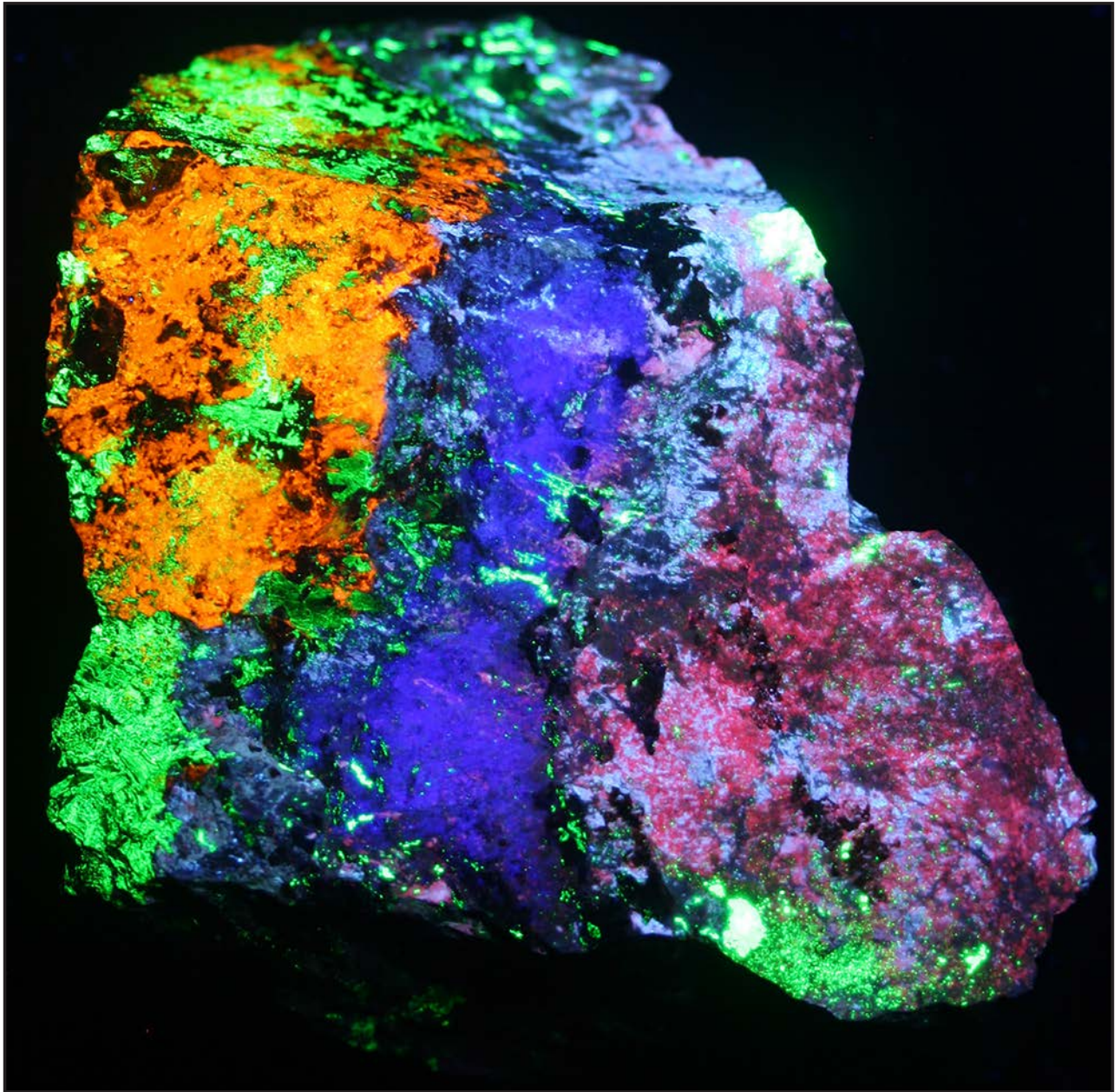
Ye mighty men of Franklin,
My story will not bite;
Be brave, read on, and smile,
Be bright as willemite!

✂ ✂ ✂ ✂ ✂ ✂ ✂

The breeze is mild and whispers,
The grass is green with light;
I think about my true love,
As bright as willemite.

The sky is green with envy,
My happiness does shine;
What purple light glows hither,
Deep in this heart of mine?

Now I am steeped in slumber,
At peace with all my might;
And I think about my true love,
As bright as willemite.



Margarosanite, xonotlite, willemite, clinohedrite, and andradite on feldspar matrix. Xonotlite confirmed by X-ray diffraction analysis. Measures 4 × 3 × 2 inches (10 × 7.5 × 5 cm). *Photo by Vandall King.*

This rock features margarosanite fluorescing pale blue and shades of red, and a striking band of violet-blue-fluorescing xonotlite. The willemite fluoresces green, the clinohedrite orange, and the feldspar matrix a weak red.

