

Feb 22 3-5:30pm Kings Park Library, Burke

BR Micromineral Study

by Jeff Guerber, Vice President

Now that Bob has inventoried Barry's collection, we'll begin reviewing the collection and discuss options for disbursing it. We'll also discuss potential options for holding an Atlantic Micromounters' Conference or alternate event this year, and our demo table at the GLMS-MC show at the Montgomery County Fairgrounds in March.



President's Message:

by David Fryauff

I missed a great meeting in January when we had a great bunch of people gather at our meeting site at the King's Park Public Library in Burke, VA.

But, you see, I had grandchildren to pick up from school and there was no one else in our household who could do the job.... Everyone else was away at work.



Mystery Micro Mineral of the Month



Since I have your attention, please take a look at this little miniature that I purchased from a dealer at the October 2022 Desautels Symposium in Baltimore. This appears to be a nice specimen of aurichalcite from Tokat, in Central Anatolia, Turkey. Not according to Mindat. Mindat tells us that excellent specimens of aurichalcite come from only one location in turkey: The Uludag Mine, a skarn-hosted tungsten deposit located on Mount Uludag, near Bursa, Bursa Province, Turkey. That is pretty good. I hope you fellow MNCA micromounters found it worth your while to donate to Mindat at the not-for-profit Hudson Institute of Mineralogy. I hope to see you all in February. Stay safe & healthy & generous. Aurichalcite is on next page.

Mystery Micro Mineral Clue

by Aloha Pete Chin, Honolulu, Hawaii

Locality: Uncle Tom Mountain, Greenwood, Oxford County, Maine FOV = 4 mm

President's Message continued

by David Fryauff



AURICHALCITE
Tokat,
Central Anatolia,
Turkey

Aurichalcite, the Uludag Mine, Turkey David Fryauff micromineral

Mystery Micro Mineral of the Month

by Aloha Pete Chin, Honolulu, Hawaii

Meta-natroautunite, Pit 1, Area E8, Emmons pegmatite, Uncle Tom Mountain, Greenwood, Oxford Co., Maine, FOV = 4 mm

Minutes Previous Meeting 1.25.2023

by Bob Cooke, secretary

The Micromineralogists of the National Capital Area (MNCA) met on January 25, 2023, at the Kings Park Library in Burke, Virginia. Vice President Jeff Guerber called the meeting to order at 4 PM. Jeff recognized former club presidents in attendance.

Other members in attendance were Bob Cooke, Dave Hennessey, Kathy Hrechka, Dave MacLean, Michael Pabst, and Tom Tucker.

Jeff distributed certificates for Kathy Hrechka, Michael Pabst, and David Hennessey from AFMS and EFMLS in recognition of newsletter articles they had written. Details of the awards have been previously published in the Mineral Mite.

Minutes of the December meeting were approved as published in the Mineral Mite. Michael Pabst reported on the funds available in the club's regular and AMC checking accounts. He stated that he has paid the EFMLS annual fee for insurance but that he cannot access the EFMLS website to update MNCA information or to use the EFMLS Zoom. His emails to EFMLS were not returned. Kathy Hrechka announced she acquired Jack Nelson's microscope, light and some minerals for MNCA for \$450.

Money from the sale of this material should be credited back to the AMC checking account. We had an update on Barry Remer and all signed a card for him.

After extensive discussion about sponsoring an Atlantic Micromounters Conference this year, there was no progress in identifying a program, venue, or Chairperson. Jeff Guerber agreed to ask David Fryauff and John Kress if they were willing to chair the AMC. If neither volunteer, the AMC will be deferred beyond its usual April date. Michael Pabst and Tom Tucker will continue discussions with Liz Johnson at James Madison University about mineral presentations and museum tours later in the year at JMU as a possible alternative to the AMC.

MNCA members agreed not to sponsor a demonstration booth at the 17 to 19 March Regional Meeting of the Geological Society of America in Reston, VA. Members will support their regular demonstration table at the 18-19 March Mineral Show of the GLMS-MC at the Montgomery County Fairgrounds. Meeting adjourned at 5:30 PM.

Prior Program Reviewed 1.25.2023

We continued to review the micro and thumbnail collection of Barry Remer. In addition, Kathy brought the rest of Jack Nelson's minerals and newsletters for distribution.

MNCA Gold panner, Jack Nelson's club donation

Barry Remer update. Please visit him.

by Kathy Hrechka

We learned that Barry is now bedridden, and happy to converse with us. We so love Barry and remain his family within our geology community. Please visit him or send a card to brighten his day. Sincerely, Kathy

Potomac Place
3236 Locker Street
Falls Church, VA
22042

Potomac Place phone
571-378-0295



**Cobalt Arsenides and Sulfides:
Cobaltite Skutterudite Safflorite
Carrollite Siegenite**

by Michael Pabst PhD, Treasurer

Cobalt arsenides and sulfides are important ores of cobalt, and they are the source of cobalt in the colorful secondary minerals like Erythrite that we looked at in previous articles. However, these specimens are difficult to photograph, because they are shiny metallic and look either silvery or black, depending on how they catch the light. Some of my specimens are tiny crystals, which also doesn't help with photography. They are also a bit monotonous because many are isometric, and they look like one another. They also look like the corresponding nickel minerals such as Nickelskutterudite and Gersdorffite (Please see the May 2022 *Mineral Mite* for comparison). Without quantitative elemental analysis for cobalt and nickel, it would be difficult to distinguish Skutterudite from Nickelskutterudite, or to distinguish secondary minerals like pink Ahlfeldite ($\text{NiSeO}_3 \cdot 2\text{H}_2\text{O}$) from Cobaltomenite ($\text{CoSeO}_3 \cdot 2\text{H}_2\text{O}$), as we saw in the last article.

Cobaltite. Cobaltite CoAsS is the cobalt analog of Gersdorffite NiAsS . Cobaltite crystallizes orthorhombic $mm2$ – pyramidal. Cobaltite occurs in high-temperature hydrothermal veins. Hardness $5\frac{1}{2}$. This specimen is from the Kibblehouse Quarry in Pennsylvania. The micromount has three tiny crystals: the photo shows one crystal. This micromount was part of the George Reimherr collection.



Cobaltite, Kibblehouse Quarry, Perkiomenville, Marlborough Township, Montgomery County, PA. FOV 2 mm, crystal 1 mm across. Photo by Michael Pabst, using stereomicroscope, stacking 13 images.

There is a good stereo pair photo of Cobaltite from the Kibblehouse Quarry on Mindat taken by Modris Baum, showing pseudo-octahedral habit of a <1 mm crystal: <https://www.mindat.org/photo-277527.html>.

Skutterudite. Skutterudite is cobalt arsenide CoAs_{3-x} (isometric $m3$ – diploidal). Hardness $5\frac{1}{2}$ - 6. Often contains nickel and iron. The name comes from the type locality: Skuterud Mines, Modum, Viken, Norway.



Skutterudite (shiny silver-gray octahedral blocks) and Safflorite (fuzzy black mounds). FOV 13 mm. Photo by Michael Pabst, using macro lens, stacking 50 images. continued next page

Cobalt Arsenide continued

In the next photo I show a newly acquired shiny Skutterudite from Bou Azzer, Morocco. It's more of a small miniature than a micromount, but the well-formed shiny crystals were irresistible.



Skutterudite, Bou Azzer Mine, Morocco. Photo by eShop Minerals. Specimen is 3.5 x 3.5 x 2 cm. Top crystal is about 1 cm across.

Safflorite. The rough black crystal aggregates in the first Skutterudite photo are Safflorite (Co,Ni,Fe)As₂. Safflorite is orthorhombic *mmm* – dipyramidal. Hardness 4½ - 5. Mindat tells us: “Named in 1835 by Johann Friedrich August Breithaupt from German "Safflor" or "Zaffer" because it was used in the manufacture of zaffer, an impure oxide of cobalt used as a pigment.” Safflorite must contain some nickel and iron for stability.

Carrollite. Carrollite is a shiny silvery copper and cobalt sulfide CuCo₂S₄. Hardness 4½ - 5½. Isometric *m3m* - hexoctahedral. Ni can replace 50% of the Co forming a series to Fletcherite CuNi₂S₄. Named for Carroll County, Maryland. Cu is mostly Cu¹⁺, so the more specific formula is Cu^{1.2+}(Co^{2.4+})₂(S^{1.5-})₄. There are some beautifully shiny crystal groups on Mindat: <https://www.mindat.org/photo-589348.html>.

Here is my Carrollite specimen from Kambove, Shaba, DR Congo.



Carrollite, Kambove, Shaba, DR Congo. FOV 9 mm, crystal 5 mm across. Photo by Michael Pabst, using stereomicroscope, stacking 26 images.

Siegenite. Siegenite is a member of the Carrollite Subgroup. Siegenite contains both cobalt and nickel CoNi₂S₄. The pure Co- and Ni-endmembers are Linnaeite Co²⁺Co³⁺₂S₄ and Polydymite Ni²⁺Ni³⁺₂S₄. Like Carrollite CuCo₂S₄, Siegenite is isometric *m3m* – hexoctahedral with hardness 4½ - 5½.



Siegenite (silvery) and Chalcopyrite (gold). Sweet-Water Mine, Reynolds County, MO. FOV 5 mm. Photo by Michael Pabst, using stereomicroscope, stacking 13 images.

continued next page

Cobalt Arsenide continued

Just for aesthetics, after all these gray arsenides and sulfides, I will conclude this series of articles on cobalt with some attractive specimens of Cobaltoan Dolomite and Cobaltoan Calcite.



Cobaltoan Dolomite with minor green Conichalcite, Tsumeb, Namibia. FOV 8 mm. Photo by Michael Pabst, using stereomicroscope, stacking 19 images.

The last specimen I will show is one that I bought long ago from Gilbert Gauthier as the cobalt mineral Kolwezite $(\text{Cu,Co})_2(\text{CO}_3)(\text{OH})_2$ on Cobaltoan Calcite. After analysis of the elements by Energy Dispersive Spectroscopy (EDS) performed by Tony Nikischer at Excalibur Mineral Corporation, I found that I had cobalt-enriched Malachite $\text{Cu}_2(\text{CO}_3)(\text{OH})_2$, not Kolwezite, on Cobaltoan Calcite CaCO_3 that was almost Cobaltoan Dolomite $(\text{Ca,Mg})(\text{CO}_3)$. I wrote a letter about this specimen in *Mineral News*, and you can read more details of the Kolwezite-Malachite discussion there: Pabst, M (December 2021) Kolwezite Anxiety. *Mineral News*: 37, No.12: pp.1-4.



Cobalt-enriched Malachite on Cobaltoan Calcite/Dolomite, from Mashamba West Mine, Kolwezi, Lualaba, DR Congo. FOV 8 mm. Photo by Michael Pabst, using a macro lens and stacking 25 images.

Here is a Mindat photo by Eugene and Sharon Cisneros of what looks like real Kolwezite: <https://www.mindat.org/photo-1229277.html>. Another photo I like is by Brian Kosnar: <https://www.mindat.org/photo-837313.html>.

This is the End for Cobalt. Gold next time.

Pacific Micro Mineral Conference 1-27



Smithsonite, Mohawk mine, Mohawk Hill SW of Clark Mts. San Bernadino Co, CA. A Gift from Al Wilkins, CA. Photomicrography by Kathy Hrechka Olympus Tough G micro setting 8 stacks.

Mineralogical Society of Southern California 56th Annual Pacific Micro Mineral Conference

by Kathy Hrechka, editor/webmaster

The Mineralogical Society of Southern California hosted their 56th annual Pacific Micro Conference on January 27-28 at the Fallbrook Mineral Museum, California. Chairman, Al Wilkins from Coto de Caza, CA welcomed over thirty micromineral collectors attending from various states and countries. Al surprised me with some smithsonites from California to add to my collection. (See page 5)

I enjoyed the west coast camaraderie, as well as the \$1 club micros and an endless feast of giveaway of micros from California localities and beyond. The event began at 3pm on Friday with attendees socializing and searching for new micros. Newly inducted BMS Hall of Famer, Robert Housley of Pasadena, CA presented “The 16 New Te Minerals species of Otto Mountain”. Kathy Hrechka was welcomed to present “Smithsonite and the Legacy of James Smithson” at the end of the evening.

On Saturday we continued to search for new micros. Erich Grundel located Postites and gave them to me. He knew I would mount them and share them with friends, including Dr. Jeffrey Post. In the morning, Paul Adams of Redondo Beach, CA presented “Three High Temperature Calc-silicate Skarns in Southern California”. After lunch the verbal auction was led by Dr. Tim Rose of Livermore, CA. I found it hard to bid against John Ebner. There was also a silent auction consisting of minerals, publications, and books.

In the late afternoon, Dan Evanich from San Jose, CA presented “Recent Collecting in Majuba Hill Mine”. He had great video footage of inside the mine, which gave me a sense of claustrophobia, when he described the lack of air quality deep in the abandoned mine. The minerals discovered were stunning. The rest of the evening was dedicated for microscope time. After dinner, Michael Cox volunteered to share his technical study of mercury minerals.

On Sunday morning a field trip was coordinated for attendees to collect on Otto Mountain.



Joe Marty submitting his Ophirite, from Ophir Hill, Consolidated Mine, Tooele Co., UT (self-collected on June 1, 1996) Michael Cox invited conference attendees to review their minerals on his Japanese Keyence digital microscope.



*Kathy viewing her new **Postite** at the Pacific Micro Conference on the professional Keyence digital microscope operated by Michael Cox.*



***Postite** Packrat mine, Gateway, Mesa Co., Colorado*

Micromineralogists of the National Capital Area, Inc.



Postite on goethite Packrat mine, Gateway, Mesa Co., Colorado, Magnification: X200.0 Photomicrography by Michael Cox, CA Kathy Hrechka micromineral



Attendees immersing in new micros & friendships.



John Ebner, New Jersey and Erich Grundel, New York



Bob Housley, Kathy Hrechka, and Marcus



Brent Thorne, Alex Earl, and Chuck Adam from Salt Lake City, Utah



Herwig & Christine, Belgium

Micromineralogists of the National Capital Area, Inc.

Fallbrook Gem & Mineral Society Museum, CA
Featured in Rocks & Minerals Jan/Feb 2011
Club website [Home \(wildapricot.org\)](http://Home(wildapricot.org))



SPODUMENE
var. Kunzite
Anita Mine
Pala District, San Diego Co., CA
Donor: Dr. Robert Lavinsky
Fallbrook Gem & Mineral Society



Tourmaline on Quartz
Pala Chief Mine
Pala, San Diego Co., CA

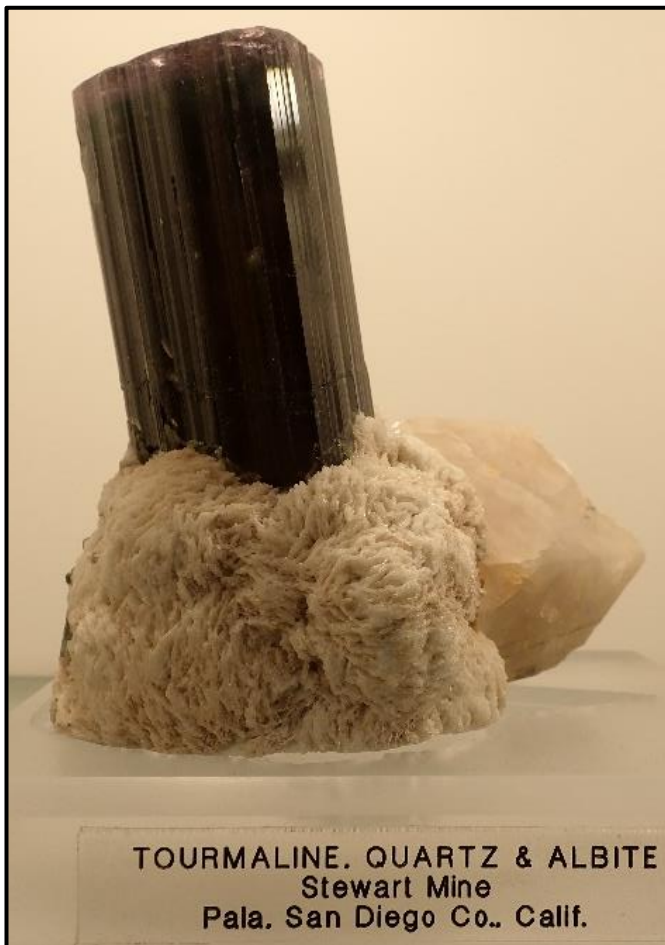


Spodumene
Oceanview Mine, Big Kahuna Zone
Pala District, San Diego Co., CA

SPODUMENE var.
KUNZITE
Ocean View Mine, Pala
San Diego County, California, USA
Fallbrook Gem & Mineral Society



Micromineralogists of the National Capital Area, Inc.



Micromineral News from Australia

Feb 15, 2023 06:00 AM Canberra, Melbourne, Sydney - USA ET calculate

Speaker: Frank Loman "The Khibiny Alkaline Complex and its minerals presented"

Steve Sorrell resides in Melbourne, Australia and hosts various geology persons of interest at their micromount meeting each month on Zoom. You can sign up for Steve's programs, while enjoying friendly faces within our geology community around the globe.



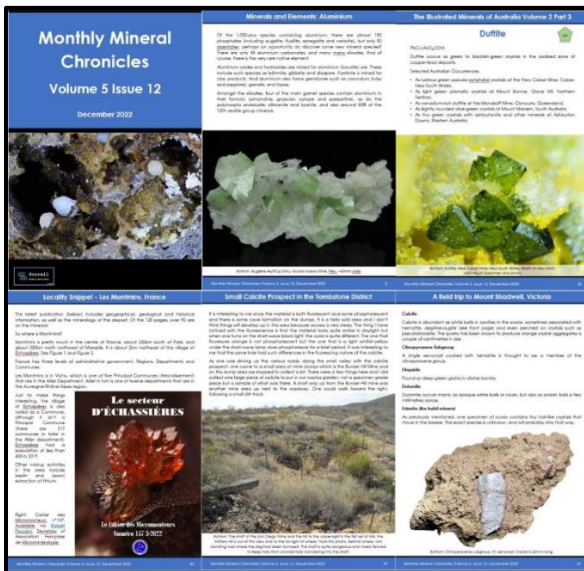
Register for this and other future Zoom sessions here: https://crocoite.com/index.php/2021/07/the-micromount-club-zoom-sessions/

steve@sorrellpublications.com

MNCA Editor's note: thanks to Steve, we have been connecting with new mineral friends around the world for the past three years. I have learned that he is a master photomicrographer, as well author of mineral books and a talented artist.

The Micromount Club Facebook group presentations are available through the following link:

https://www.youtube.com/playlist?list=PLwdOHcjmducFKcDw8d2qgAoEEEB0M7vht



Screenshot of Steve's website newsletters, K. Hrechka

Mineral Talks Live – Feb 3 @ 1pm ET

Speaker: David Paul Wilber

"Dave is a prominent mineral collector and dealer, was born November 15, 1937, in Cleveland, Ohio, the son of Dorothy and Joseph Wilber, a cost accountant. His first encounter with minerals took place in 1943 when, at the age of six, he moved with his family from Cleveland to southern California. At the age of 14 he was specializing in secondary uranium minerals, but soon broadened to worldwide specimens of all kinds.

He joined the North Hollywood Gem and Mineral Society, and began visiting local collections, public and private, getting to know the many California collectors and curators. He got to know curators George Switzer and Paul Desautels at the Smithsonian Institution and learned much from them about top-level mineral collecting.

As the years passed, Dave's connoisseurship, and his status as a world-class collector, continued to grow. In 1974 he won the coveted McDole Trophy at the Tucson Gem and Mineral Show, the nation's highest award for mineral collecting. That same year he purchased the better part of the Peter Bancroft collection, 52 specimens for \$400,000, the highest price ever paid for a modern-era American mineral collection. In 1978 he built a special collection of specimens from the Tourmaline Queen mine in California., then expanded it into a general San Diego County pegmatite collection of nearly 200 specimens (he sold it to Texas oilman Perkins Sams in 1981 for \$600,000; it is today part of the Houston Museum of Natural Science collection). When asked what is his favorite specimen that he has ever owned, he replies without hesitation: the one known as "the Great Phosphophyllite" from Potosí, Bolivia, a huge doubly terminated twin on matrix. Dave sold off his mineral collection in 1981. He also married and raised a family, two daughters and a son".

Register in advance for this webinar:

http://go.mineraltalkslive.com/register

After registering, you will receive a confirmation email containing the link joining the webinar.

Bryan Swoboda, Blue Cap Productions, Honolulu, HI info@mineraltalkslive.com

Micromineralogists of the National Capital Area, Inc.

47th Annual Micromount Symposium hosted by Leidy Micromount Society Richboro, PA - March 10-11, 2023

Friday March 10, 2023, noon to 6pm
Saturday, March 11th, 2023, 9am to 6pm
Location: Advent Lutheran Church,
45 Worthington Mill Rd, Richboro, PA 18954

Friday speaker - Brittany A. Cymes, Ph.D. TOPIC: Microscopy of Solar Wind Particles Trapped in Lunar Surface Minerals.

Biography: Dr. Brittany Cymes is a postdoctoral researcher at the U.S. Naval Research Laboratory where her principal focus is analyzing newly released Apollo 17 samples with electron microscopy and microanalytical approaches. These special lunar samples, first placed into frozen curation in 1972, are revealing new information to scientists thanks to advances in technology over the past fifty years. Dr. Cymes received her doctorate in geology from Miami University and her research interests revolve around mineral alteration processes and surface chemistry in different environments. She specializes in using electron microscopy to study planetary materials to better understand processes taking place across the Solar System and beyond

Saturday speaker - Robert A. Carlton, Ph.D. Topic: Mineral Analysis for the Micro-Mineral Collector

Biography: Dr. Robert Carlton worked for nearly 40 years in the research and development of fiberglass insulation, orthopedics, and pharmaceuticals. His specialty is solidstate analysis with a particular interest in microscopy. Robert retired from fulltime employment in early 2016. He is now teaching microscopy and consulting on solid-state analysis. He is also applying his analytical experience to minerals as an avocation. Robert is President of the Philadelphia Society for Microscopy and a member of the Leidy Microscopy Society. Robert's education is in chemistry with a Ph.D. from Lehigh University. He has taken numerous courses at McCrone Research Institute on microscopy from Skip Palenik and Walter McCrone. Robert worked for pharmaceutical companies Rhone-Poulenc Rorer (Aventis, Sanofi), Elan (NanoCrystal), and GlaxoSmithKline in microscopy and solid-state analysis for 24 years. He published a book on Pharmaceutical Microscopy in 2011 with Springer
Table space (for two days): \$25.00 & \$40.00 (full table, 6ft) Visitor's Fee (no table): \$5. Fri & \$10. Sat Registrations (includes lunch) Make checks payable: Don McAlarnen, 916 Senator Rd, East Norriton, PA 19403 (610) 584-1364

Questions: Email: donmcalarnen@outlook.com

**47th Annual
Leidy Microscopical Society
Micromount Symposium**

TWO GREAT SPEAKERS

FRIDAY
"Microscopy of Solar Wind
Particles Trapped in Lunar
Surface Minerals"
By Brittany A. Cymes, Ph.D.

SATURDAY
"Mineral Analysis for the
Micro-Mineral Collector"
By Robert A. Carlton, Ph.D.

*Silent Auctions*Give-Away Tables*



**March 10 – 11 Fri. Noon to 6:00 PM
2023 Sat. 9:00 AM to 6:00 PM**

Lunch to be Provided on Saturday with Paid Admission
Table Space for Two Days: \$25.00 for 1/2 of 6 Foot Table, \$40.00 for Full 6 Foot Table
Visitor's Fee: \$5.00 for Friday, \$10.00 for Saturday (Includes Lunch)

Micromineralogists of the National Capital Area, Inc.



American Federation of
Mineralogical Societies

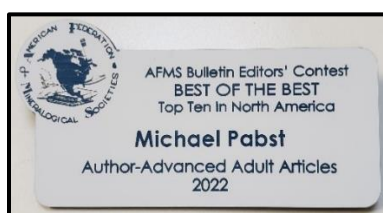
(AFMS)
www.amfed.org

Please read the AFMS bulletin attached in original monthly email to MNCA members.

2023 Purpose of the AFMS: To promote popular interest and education in the various Earth Sciences, and in particular the subjects of Geology, Mineralogy, Paleontology, Lapidary, and related subjects, and to sponsor and provide ways to coordinate the work and efforts of all interested persons and groups; to sponsor and encourage the formation and international development of Societies and Regional Federations and thereby to strive toward greater international good will and fellowship.

Congratulations Michael Pabst!

The American Federation of Mineralogical Societies Bulletin Editors Advisory Committee Awarded Michael Pabst 9th Place for his article "Cumengeite and Pseudoboleite" which was published in The Mineral Mite 2021. Michael was honored on October 17, 2022, in New Orleans, Louisiana, the location for the AFMS/SCFMS Convention. Michael received a certificate as well as a new name tag.



Celebrating 50 years!
The Rock & Gem magazine is recognized as the
official magazine of the AFMS.
Free archived downloads

[Rock & Gem Magazine Archive : Free
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Archive](#)



Eastern Federation of
Mineralogical and Lapidary
Societies

(EFMLS)
<https://efmls.org>

**Communication and Involvement
Are the Keys to Our Success!**

Please read the EFMLS bulletin attached in original monthly email to MNCA members.

Local Geology Club Meetings:

February 2023

1: Mineralogical Society of the District of Columbia
MSDC 7:30pm **Zoom**
www.mineralogicalsocietyofdc.org

6: Northern VA Mineral Club NVMC 7:30 Zoom
www.novamineralclub.org

**13: The Gem, Lapidary and Mineral Society of
Montgomery County, Maryland - GLMSMC**
Meeting 7:30 pm www.glmsmc.com

**??: The Gem, Lapidary and Mineral Society of
Washington, DC - GLMS-DC meeting**
www.glmsdc.org

15: Baltimore Mineral Society BMS meeting
www.baltimoremineralsociety.org

22: Micromineralogists of the NCA, Inc. MNCA
3-5:30pm Kings Park Library, Burke
www.dcmicrominerals.org



The Mineral Mite February 2023

Micromineralogists of the National Capital Area, Inc.

Local Geology Shows / Symposiums

March 4-5, 2023 - Wilmington, DE - Earth Science Gem and Mineral Show sponsored by the Delaware Mineralogical Society, Doubletree by Hilton, 4727 Concord Pike, Wilmington, DE 19803. Saturday 11:00 AM to 5:00 PM, Sunday 11:00 AM to 5:00 PM. For more information visit the club's website: <http://www.dmsrocks.org>

March 10-11, 2023 - Richboro, PA - 47th Annual Micromount Symposium hosted by the Leidy Micromount Society. Two Day event: Friday March 10, 2023, noon to 6pm & Saturday, March 11th, 2023, 9am to 6pm. Same NEW location: Advent Lutheran Church, 45 Worthington Mill Rd, Richboro, Pa. 18954. Two Speakers: Friday- Brittany A. Cymes, Ph.D TOPIC: Microscopy of Solar Wind Particles Trapped in Lunar Surface Minerals. Saturday - Robert A. Carlton, Ph.D Topic: Mineral Analysis for the Micro-Mineral Collector. Table space (for two days): \$25.00 & \$40.00 (full table, 6ft). Visitor's Fee (no table): \$5.00 Friday & \$10.00 Saturday (includes lunch) Reservations/ Admission: Make checks payable to; Don McAlarnen, 916 Senator Rd, East Norriton, PA 19403 (610) 584-1364 Questions: Email: donmcaldarnen@outlook.com

March 18-19, 2023 - Gaithersburg, MD - Gem, Mineral & Fossil Show sponsored by Gem, Lapidary, and Mineral Society of Montgomery County MD., Inc., Montgomery County Fairgrounds, 16 Chestnut, Gaithersburg, MD 20877. Saturday 10:00 AM to 6:00 PM, Sunday 11:00 AM to 5:00 PM. For more information visit <http://www.glmsmc.com/>

MNCA Demo table, please participate.

Micromineralogists of the National Capital Area
www.dcmicrominerals.org

We are temporarily meeting at Kings Park Library in Burke, 3-5:30pm (forth Wednesdays) until we locate a permanent meeting place.

MNCA Purpose: To promote, educate and encourage interest in geology, mineralogy, and related sciences.

President: David Fryauff
Vice President: Jeff Guerber
Secretary: Bob Cooke
Treasurer: Michael Pabst
Editor/Historian: Kathy Hrechka
Website: Kathy Hrechka
AMC Conference: open

The society is a member of:

- * Eastern Federation of Mineralogical and Lapidary Societies (EFMLS) www.efmls.org
- * American Federation of Mineralogical Societies (AFMS) www.amfed.org affiliation

Dues: MNCA Membership Dues 2023
\$15 (single) or \$20 (family) donations
MNCA - Michael Pabst, Treasurer
270 Rachel Drive
Penn Laird, VA 22846

Editor's Note: By Kathy Hrechka
Send your articles and photos to your editor.
Club Article Deadline is 1st of each month.
The Mineral Mite will be emailed by 5th.
No newsletter July/August

Inducted into Editor's Hall of Fame – 2018
EFMLS Trophy 2021 Small bulletins



Newsletter inputs:

- * David Fryauff
- * Jeff Guerber
- * Michael Pabst
- * Bob Cooke
- * Kathy Hrechka
- * Pete Chin
- * McAlarnen

