

The Mineral Mite

Vol. 55 – No. 8 Washington D.C. – A Journal for Micromineralogists

Oct 2022

Oct 26 3-5:30pm Kings Park Library in Burke, VA

Program: G. Reimherr's Micros II

by Jeff Guerber, Vice President

At the Oct. 26 meeting, we will continue our distribution of George Reimherr's micro mineral collection. We got through about half of the collection at the September meeting, so there are still a lot of good specimens available! Remember, you must be physically present, or send a proxy, with a list of the specimens you would like in preference order, to someone who will be present. Bring anything else you wish to share.



We will be meeting at the Kings Park Library meeting room (that's the large room, with plenty of space to set up our scopes!)

Address: 9000 Burke Lake Road, VA 22015

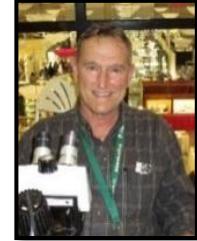
Mystery Micro Mineral of the Month



Clue: Lualaba, DR Congo FOV 3.3mm by Pete Chin

President's Message:

by David Fryauff



I am pleased to report that I represented the MNCA club most honorably at the recent one-day-a-year invitational for geologists/mineralogists/rockhounds that was convened at the famous Willis Mountain Kyanite Mine on September 24th, 2022. I suspect that most of you, as mineral collectors, and geology enthusiasts, have been to the Willis Mountain Kyanite Mine for one of these collecting sessions.

A Google search shows that this quarry has been doing its once-a-year "Rockhound Day" for many years. I wish we could get more of our local quarries in MD, PA, VA, & WV interested in community outreach and education with just this sort of thing: a once-a-year rockhounding day. Willis Mountain is a monadnock: an isolated hill (just 950 ft) that rises above the south-central Virginia piedmont plain because of its greater resistance to weathering and erosion. This is due to quartz, mainly, and to a large measure of kyanite that occurs within that quartz. Kyanite is found all over the world with important mines in China, India, and Ukraine, but nowhere in the world does industrial grade kyanite occur on a scale that is as massive and extensive as that of our Willis Mountain deposit.

continued page 2

"Aloha Pete Chin's" answer to the "Mystery Micro Mineral" is found on page 2.

President's Message: continued

An interesting article about the Willis Mountain Kyanite mine, and the man who made it came out in the Washington Post on Christmas day, 1978. The Willis Mountain Kyanite mine is really a fascinating American story and a unique part of our recent history. And chances are good that around this time next year, you will have a chance to see for yourself, and collect minerals from this famous Virginia kyanite mine. Until then, take a look at some of the items that I stumbled upon.



*Kyanite coated with iridescent goethite-hematite,
FOV 3.0 mm Dave Fryauff*



*Hematite? Goethite? in oxidized kyanite & quartz,
FOV 3.0 mm Dave Fryauff*

Additional Willis Mountain Kyanite Mine photos from Dave's trip are on page 5.

Mystery Micro Mineral of the Month

Answer: **Marthozite**, Musonoi Mine, Kolwezi, Kolwezi Mining District, Lualaba, DR Congo.
FOV = 3.3 mm by Aloha Pete Chin, Honolulu, HI

Minutes of Previous Meeting 9.28.2022

by Bob Cooke, secretary

The MNCA met from 3-5:30 PM at the Kings Park Library in Burke, Virginia. Members present were Dave Fryauff, Jeff Guerber, Dave MacLean, John Kress, Dave Hennessey, and Bob Cooke.

Treasurer Michael Pabst was on travel in Sweden but had provided a Treasurers Report which was read in his absence.

Members discussed an offer from the Northern Virginia Mineral Club for MNCA to have a demonstration table at the NVMC/GMU mineral show in November. Dave MacLean expressed a willingness to help but was subject to transportation restrictions. Other members deferred. The issue was referred to Dave Fryauff who will coordinate with Kathy Hrechka and respond to Tom Taaffe of the NVMC. Members exited the library as the doors were locked for a 6 PM closing.

Previous Program Reviewed 9.28.2022

by Bob Cooke, secretary

The distribution of micromounts from the George Reimherr collection was initiated. Only active members were eligible to participate but a proxy could be designated in their absence. Participants chose a sequence number then commenced rounds of selecting micromounts. Approximately 30 micromounts were selected by each participant before time expired. Distribution of remaining micromounts will continue at the October meeting.



George Reimherr's Microminerals

Roselite and Anorthoroselite

by Michael Pabst PhD, Treasurer

Roselite is a beautiful purple cobalt and calcium arsenate $\text{Ca}_2\text{Co}(\text{AsO}_4)_2 \cdot 2\text{H}_2\text{O}$. Roselite is monoclinic $2/m$ – prismatic, $\beta = 107.43^\circ$, space group $P2_1/b$.



Some of the cobalt might be replaced by magnesium, and if Mg^{2+} predominates, the mineral becomes Wendwilsonite $\text{Ca}_2\text{Mg}(\text{AsO}_4)_2 \cdot 2\text{H}_2\text{O}$, although it is still pink or purple. Mohs hardness 3-4. Roselite occurs as a secondary mineral in cobalt ore deposits containing primary sulfide and arsenide minerals like Cobaltite CoAsS or Skutterudite CoAs_3 .

There is a triclinic dimorph of Roselite called Anorthoroselite (“not right angle-roselite”, known as “beta-roselite” before 2022). Anorthoroselite is also usually dark rose red or pink, but some specimens on Mindat look orange. Anorthoroselite has the same chemical composition as Roselite but crystalizes in the triclinic system.

There is a series between Anorthoroselite and Talmessite $(\text{Ca}_2\text{Mg}(\text{AsO}_4)_2 \cdot 2\text{H}_2\text{O})$, which is analogous to the Roselite-Wendwilsonite series. Whether there is more or less than 50% Co^{2+} compared with Mg^{2+} will remain unknown for my humble specimens. Furthermore, I lack the ability to visually distinguish Roselite from Anorthoroselite. An experienced eye or X-ray diffraction would be needed to distinguish the two. Chemical analysis by Energy-dispersive X-ray spectroscopy (EDS) would be needed to distinguish Roselite from Wendwilsonite, and Anorthoroselite from Talmessite.

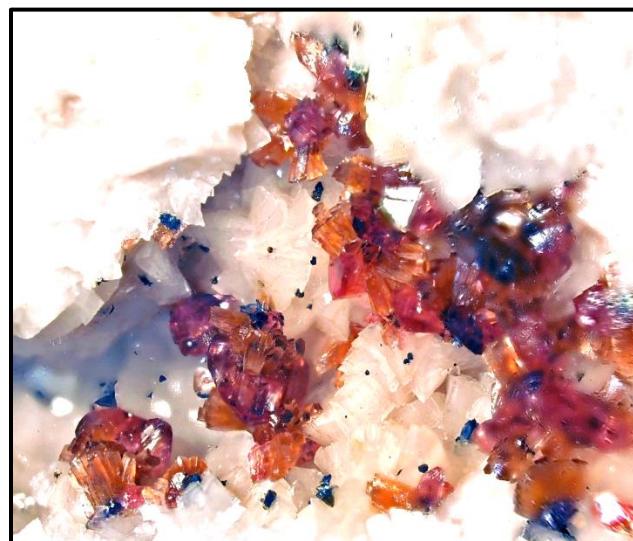
In future, Raman Spectroscopy might distinguish among Roselite, Wendwilsonite, Anorthoroselite, and Talmessite. In the meantime, I am going to call the orange crystals on my specimens Anorthoroselite, until someone corrects me.

To set the standard for photography, here is a Mindat link to a photo by Bonafazi Marco showing Talmessite, Roselite, and Cobaltaustinite from the Aghbar Mine in Morocco:

<https://www.mindat.org/photo-777406.html>. And

here is a Mindat link showing a photo by Serge Lavarde of Roselite, Anorthoroselite, Cobaltaustinite, and Cobaltlotharmeyerite from Aghbar: <https://www.mindat.org/photo-1002440.html>. We will describe Cobaltaustinite $\text{CaCo}(\text{AsO}_4)(\text{OH})$ and Cobaltlotharmeyerite $\text{CaCo}_2(\text{AsO}_4)_2 \cdot 2\text{H}_2\text{O}$ in a later article.

Let's begin by looking at a beautiful specimen of Roselite from Morocco that also features an orange mineral that might be Anorthoroselite or Talmessite, along with colorless and white Dolomite and Calcite crystals, and blackish stuff, maybe Allocasite (?), a black cobalt iron arsenic sulfide.



Roselite (purple) with **Anorthoroselite** (orange) with **Dolomite** and **Calcite** (colorless and white) and **Cobaltaustinite** or **Allocasite** (?) (black). Bou Azzer, Morocco. FOV 14 mm. Photo by Michael Pabst, using macro lens, stacking 100 images. (Pabst specimen #355.)

Roselite continued

Here is a closer view of a different area of the specimen above, also taken with a macro lens:



Roselite (purple) and **Anorthoroselite** (orange), Bou Azzer Morocco. FOV 9 mm. Photo by Michael Pabst, using macro lens, stacking 125 images. Specimen #355.

And here is a closeup of another location on the same specimen taken with a stereomicroscope:



Roselite (purple) and **Anorthoroselite** or **Talmessite** (orange) on **Dolomite** (white), Bou Azzer Morocco. FOV 6 mm. Photo by Michael Pabst, using stereomicroscope, stacking 26 images. Specimen #355.

Next is a photo of another Roselite specimen from Morocco (my specimen #300). The plastic box has an added price tag (\$15) with a note "w Rosel-β". The original label states "Roselite, Agbhar, Morocco". The big crystals have a blocky habit, which does not suggest to me Anorthoroselite (Rosel-β), but the paler cluster in the upper center might be Anorthoroselite. This specimen also shows small balls of orange-brown Cobaltlotharmeyerite, about which we will say more in a later article. Cobaltlotharmeyerite has the same chemical formula as Roselite: $\text{CaCo}_2(\text{AsO}_4)_2 \cdot 2\text{H}_2\text{O}$.



Roselite and **Anorthoroselite**, with tiny brown **Cobaltlotharmeyerite** crystal clusters scattered on the background matrix, Aghbar Mine, Bou Azzer, Morocco. FOV 8 mm. Photo by Michael Pabst, using stereomicroscope, stacking 22 images. Pabst specimen #300.

Roselite continued

Finally, here is Roselite with colorless Calcite crystals, again from Bou Azzer:



Roselite with Calcite, Bou Azzer, Morocco. FOV 9 mm. Photo by Michael Pabst, using macro + Raynox lenses, stacking 95 images. Pabst specimen #39.

There is another beautiful purple cobalt mineral, Spherocobaltite $\text{Co}(\text{CO}_3)$, that I will describe in the next article.

Rockhound Day at Willis Mountain Kyanite Mine, Dillwyn, Buckingham County, Virginia



Midnight blue kyanite crystals.... what we all hoped to find, Dave Fryauff



Sulphur, pyrite, & kyanite FOV 3.0 mm D Fryauff



North face of Willis Mountain carved away by mining since the 1920's; photos by Dave Fryauff

Close Encounters of the Erythrite Kind

By Erich Grundel, New York

The recent article on erythrite by our esteemed treasurer brought to mind some of my own encounters with the mineral. In the 1980s and 90s I made several visits to Cobalt, Ontario, Canada. Although named Cobalt, the most important element, from an economic point of view, found there was silver. I leave it to your leisure to look up the history of this extraordinary deposit. I especially recommend you check out the "Silver Sidewalk". I assume the site where it was found is still fenced off and noted with a historical marker.

There were hundreds of mines in the region. They left behind numerous dumps that have been scoured with metal detectors for several generations. I went on one trip with a group of collectors, one of whom hit the jackpot when he found several silver ingots! For micromounters there was lots to be found. Most obvious of all was the "cobalt bloom". This is erythrite that has formed from cobalt bearing minerals like cobaltite and skutterudite being oxidized upon their exposure to the air and water (or snow; this is Canada). Countless pinhead size sprays under the scope look like a parade of pink porcupines.

Jump forward a few decades. In 2020 the Covid-19 Pandemic had as one of its consequences closed schools. One day my sister came over with one of her grandsons then age 7. I happened to have my microscope set up. Being curious by disposition he asked me about the scope. I explained it to him and then I brought out a specimen from my collection, erythrite from Cobalt, for him to examine. He was very impressed. A few days later he came back. This time he brought his best friend, age 6, and made me show the friend the microscope and specimen. There was a lot of chatter between the two of them about the specimen.

As a consequence of the spontaneous enthusiasm that is a specialty of childhood I gave each of them a digital microscope. They are still using them. Now that they are (very) slightly less rambunctious I hope to get them to sit down (wishful thinking) in the not too distant future and show them how to make a micromount.

66th Annual Paul Desautels Memorial Micromount Symposium Oct 7-8, 2022

by Mike Seeds, conference chair

Location: The Friends School of Baltimore
5114 North Charles St; Baltimore, MD 21210

Friday, October 7

7:00 PM Registration, Coffee, and Treats
8:00 PM Fellowship with other micromounters and informal programs given by participants
Kathy Hrechka will present Murfreesboro Diamonds
Three other participants have short programs.

Saturday, October 8

9:00 AM Symposium Opens – Trading, Giveaway tables, Mineral sales, Silent Auction, and lots of free time!
10:00 AM Silent Auction
12 Noon Light Lunch (provided)
2:00 PM Voice Auction
3:00 PM Micromounters' Hall of Fame Induction conducted by Quintin Wight
Inductees: Robert Housley and Thomas Mortimer
Presentation by Robert Housley
5:00 PM Dinner (at local restaurants on your own)
7:30 PM Presentation by Thomas Mortimer:
"A New Hampshire Mineral Species Collection"
9:00 PM Symposium Closes

Registrations will be accepted by mail or will be taken at the door either Friday night or Saturday morning. \$30.00 in advance or \$35.00 at the door (includes dessert on Friday evening and light lunch on Saturday). Dinner will be on your own at local restaurants both Friday and Saturday evenings.

Micromount sales and mineral specimens of interest will be available. Small tools, boxes, loupes, and other items also will be available.

Contact Mike Seeds (<mseeds@fandm.edu>) for Sales and facilities ahead of time if you desire to sell any items at the Symposium.

Hall of Fame donations for Auction: contact Al Pribula (<apribula@towson.edu>)

Bring a table covering, auction donations. Masks are optional.

Micromineralogists of the National Capital Area, Inc.

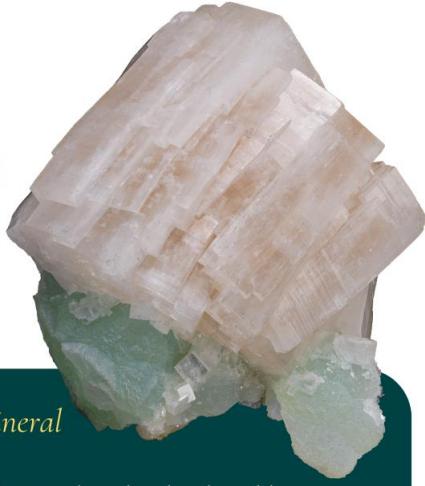
**Friends of Mineralogy
Virginia Chapter FMVA**
by Thomas Hale, President



[**NOVA Trap Rock Quarries Publication**](#)
[**Video**](#) by Thomas Hale on YouTube!



NEW BOOK ON VIRGINIA TRAP ROCK QUARRIES!



The first major publication on Virginia's mineral resources in thirty years.

This publication combines a detailed review of the region's mineralogical and geological heritage, including a deep dive into the aggregate industry and its importance in society. Through this industry and mineralogy approach, the publication will be immensely useful for teachers, tourists, collectors, and nature enthusiasts wanting to learn more about Virginia's mineralogical history. Biographies of some of the most important people involved in mineral collecting in the trap rock quarries and Virginia's mineral history are presented along with many of their collecting stories, which are published here for the first time.

\$35 PER COPY

-  6" x 9" Size
-  144 pages
-  87 Mineral Species
-  12 NOVA Quarries

Why buy this book?

FULLY COLORED IMAGES

The NOVA Trap Rock Quarries publication provides over 100 colored photographs to help illustrate the region's beautiful mineral diversity and rich geologic history!

COMMUNITY DRIVEN

Created by the community for the community, this publication is a true passion project for those wanting to preserve the state's mineral resources for future generations!

SPECIMEN IDENTIFICATION

Our team has worked hard to help differentiate between similar mineral species across various quarries. Now you will know the difference between prehnite from Bealeton and Goosecreek. We also include a mineral checklist for each locality.

EDUCATIONAL AND INDUSTRY RESOURCES

This publication is perfect for teachers looking to find modern information about rocks and minerals in Virginia. Our book provides a template for teachers to educate about the NOVA trap rocks and engage in much broader geology topics!

**TO PURCHASE A COPY, PLEASE EMAIL
FMVAPUBLICATIONS@GMAIL.COM**

WATCH NOW

Micromineralogists of the National Capital Area, Inc.

Friends of Mineralogy – Pennsylvania Chapter Symposium on Pennsylvania Mineralogy & Geology Nov 12-13 '22

IN PERSON and ONLINE

Location: Bright Side Opportunities Center
15 Hershey Avenue, Lancaster, PA 17603

All interested mineral collectors are invited to register and attend. As usual, a few invited mineral dealers will be present, and there will be a silent auction, give-away table, refreshments, and plenty of opportunities for visiting with fellow enthusiasts. Lunch is available at restaurants within short driving distance, and there is adequate parking.

On Sunday, a field trip for those registered for the symposium will be able to mineral collect at National Limestone Quarry's Mount Pleasant Mills, PA, location. The field trip is open only for the symposium registrants. Safety equipment will be required.

<https://www.rasloto.com/FM/>

Saturday, November 12 speakers:

***William Kochanov, PG**, Pennsylvania Geological Survey, retired: "Reconnaissance of mineral collecting sites in Southeastern Pennsylvania"

***Stephen R. Lindberg**, University of Pittsburgh at Johnstown: "Geology of the New Paris Limestone Quarry, Napier Township, Bedford County, PA"

***Ronald A. Sloto, PG**, West Chester University: "Classic Mineral Localities of Bucks County, PA"

***Bill Stephens, PG**, Stephens Environmental: "Report on Re-opening the Mount Pleasant Mills, Snyder Co., Pennsylvania, Wavellite Occurrence"

Sunday, November 13 collecting trip to National Limestone Quarry at Mount Pleasant Mills, PA

Registration: \$25/person for non-members (or join for 2023 and get the member rate), \$15/person for current FM-Pa members; free for college students; free for younger students. Parents must provide supervision of minors.

Register in advance, online or by mail; a form is available on the web site. Professional Geologists: Five Professional Development hour credits for full lecture attendance.

Contact: e-mail: <bstephens@stephensenv.com>



SYMPPOSIUM & FIELD TRIP

Friends of Mineralogy - PA Chapter November 12-13, 2022 Lancaster, PA

Attend ONLINE -OR- IN PERSON at Bright Side Opportunities Center, 515 Hershey Ave., Lancaster PA 17603

Symposium for mineral enthusiasts on Saturday Nov. 12 Doors open 8:30 a.m.; Symposium 9:00 - 4:15
Sales by Select Dealers – Silent Auction – Give-away Table – Meet Fellow Collectors

Talks by knowledgeable speakers on Pennsylvania Mineralogy and Geology, and more:

William Kochanov, PG Pa. Geol. Survey, Retired Reconnaissance of mineral collecting sites in Southeastern Pennsylvania	Stephen R. Lindberg U. Pittsburgh at Johnstown Geology of the New Paris Limestone Quarry, Napier Township, Bedford County, Pennsylvania	Ronald A. Sloto, PG West Chester Univ. Classic Mineral Localities of Bucks County, Pennsylvania	Bill Stephens, PG Stephens Environmental Report on Re-opening the Mount Pleasant Mills, Snyder County, Pennsylvania, Wavellite Occurrence	and... One more great talk to be announced
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Registration form on website. Register online or by mail (or on-site, cash/check only).
Current members \$ 15.00/person Non-members \$ 25.00 College Students free
Professional Geologists: Five Professional Development Hour credits available for full lecture attendance

Field Trip on Sunday Nov. 13 Mount Pleasant Mills, PA. Open only to symposium registrants. Register now!
Visit our web site for details, registration form, changes and updates: www.rasloto.com/FM

Micromineralogists of the National Capital Area, Inc.

Micromineral News from Australia

by Kathy Hrechka

**Sign up for the next Micromount Club Meeting
October 20, 2022 @ 4pm ET**

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. Join the October 20 meeting.

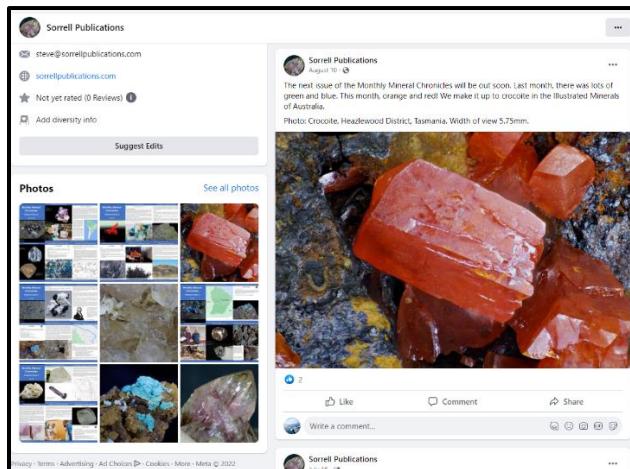
Register for these and other future Zoom sessions here: <https://crocoite.com/index.php/2021/07/the-micromount-club-zoom-sessions/>

steve@sorrellpublications.com

MNCA Editor's note: thanks to Steve, we have been connecting with new mineral friends around the world for the past two 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=PLwdOHcjmducFKcDw8d2qgAoEEB0M7vht>



Screenshot of Steve's website newsletters K Hrechka

Northern Virginia Mineral Club Show November 19-20, 2022 at GMU

by Tom Taaffe, Show Chair

After missing a couple of years due to the coronavirus pandemic, the NVMC is bringing back our annual gem, mineral, and fossil show at George Mason University.

The show will be on November 19-20, 2022, in Dewberry Hall, Johnson Center Building, George Mason University (GMU), Fairfax, Virginia.

Set-up is on November 18.

Show hours:

Nov 19 Saturday: 10 a.m. to 6 p.m.

Nov 20 Sunday: 10 a.m. to 4 p.m.

Volunteers are needed for set up, ticket table, kids "Mini Mines, auction, door prize announcer, etc.

Show chair: Contact Tom Taaffe
rockclctr@gmail.com

Adapted from The Mineral News, Northern Virginia Mineral Club's newsletter, September 2022

Micromounters' Demonstration

If any MNCA members are available to volunteer at our demonstration table, please contact Dave Fryauff. fryauffdj@gmail.com



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.

2022 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! Matt Charsky Arlington, Virginia was voted as 1st Vice President of the American Federation, representing the EFMLS.

University of Arizona Alfie Norville Gem and Mineral Museum at the Historic Pima County Courthouse, Is Now Open!

by S. Kaminski, Mineralogical Society of Arizona

A new gem, and mineral museum has opened in Tucson, Arizona. The University of Arizona Alfie Norville Gem & Mineral Museum (UAANGMM) is located within the historic Pima County Courthouse, an iconic and historic building of magnificent Spanish Revival architecture in the heart of Tucson

*Full article published in the AFMS News Sept 2021



Celebrating 50 years!

The Rock & Gem magazine is recognized as the
official magazine of the AFMS.

Free archived downloads

[Rock & Gem Magazine Archive : Free
Download, Borrow, and Streaming : Internet
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:

October 2022

5: Mineralogical Society of the District of Columbia
MSDC 7:30 [Zoom](#)
www.mineralogicalsocietyofdc.org

7-8: 66th Annual Paul Desautels Memorial Micro-mount Symposium (details page 6)
www.baltimoremineralsociety.org

10: The Gem, Lapidary and Mineral Society of Montgomery County, Maryland - GLMSMC
7:30 pm www.glmcmc.com

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

19: Baltimore Mineral Society [Zoom](#)
www.baltimoremineralsociety.org

24: Northern VA Mineral Club – NVMC meeting
7:00pm
www.novamineralclub.org

25: Micromineralogists of the National Capital Area, Inc. - MNCA 3-5:30pm - Kings Park Library, 9000 Burke Lake Road, Burke, VA 22015-1683
www.dcmicrominerals.org

October 2022

14-16: The American Federation of Mineralogical Societies & SCFMS - New Orleans, Louisiana

Micromineralogists of the National Capital Area, Inc.



GeoWord of the Day and its definition:

aheylite (a-hey'-lite) A pale blue-green triclinic mineral: $(\text{Fe}^{2+}, \text{Zn})\text{Al}_6(\text{PO}_4)_4(\text{OH})_8 \cdot 4\text{H}_2\text{O}$. It is the ferrous analogue of *turquoise*.

francevillite (france'-vil-lite) A yellow, green, or orange orthorhombic secondary mineral: $(\text{Ba}, \text{Pb})(\text{UO}_2)_2(\text{V}_2\text{O}_8) \cdot 5\text{H}_2\text{O}$. It is the barium analogue of curienite.

likasite (li-kas'-ite) A sky-blue orthorhombic mineral: $\text{Cu}_3(\text{NO}_3)(\text{OH})_5 \cdot 2\text{H}_2\text{O}$.

novgorodovaite A vitreous colorless monoclinic oxalate mineral: $\text{Ca}_2 \text{C}_2\text{O}_4\text{Cl}_2 \cdot 2\text{H}_2\text{O}$.

All terms and definitions come from the [Glossary of Geology, 5th Edition Revised](#).

GeoWord of the Day is brought to you by: EnviroTech! envirotechonline.comwordoftheday@agiweb.org

AGI was founded in 1948, under a directive of the National Academy of Sciences. It is a not-for-profit 501(c)(3) organization dedicated to serving the geoscience community and addressing the needs of society. AGI headquarters are in Alexandria, Virginia.

MNCA Demonstration at local clubs:



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 our 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 2022

\$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

*Mike Seeds

*Thomas Hale

*Erich Grundel

