



MNCA Website [dcmicrominerals.org](http://dcmicrominerals.org)  
**The Mineral Mite**



Vol. 52 – No. 6

Washington D.C. – A Journal for Micromineralogists

June 2019

**June 26 Time: 7:30 p.m. – 10 p.m.**

**Long Branch Nature Center, 625 S. Carlin Springs Rd. Arlington, VA 22204**

**Program: Alain Martaud  
“French Fluorite Mines &  
Mining” a DVD from the  
Dallas Symposium 2018**

by Dave Fryauff, Vice-president



France is a longtime mining country. The exploitation of fluorite began in the late 1800s. A century later, in 1975, France ranked as the third largest fluorite ore-producing country in the world. Alain will take you on a tour to some of the best 900 known fluorite veins of France. Workshop: bring micros to share.

**Photo of the Month**



**Jouravskite**, N'Chwaning III mine, Kalahari, South Africa. FOV 3 mm. Photos by Michael Pabst through stereo microscope, stacking 12 images. Article p. 5-8

**President's Message:**

by Dave MacLean



Summer collecting season is well underway. I look forward to seeing all the summer collected minerals from exotic and non-exotic places. One non-exotic place is our own stash of collected rocks with vugs containing thumbnails and micros just waiting to be trimmed out for showing off this fall.

I am intrigued by the micros arising from past and present human activity. When I read *Rocks and Minerals* magazine in 1967, there was an article about a person who found copper oxy chloride mineral crystals in brass mill slag dumped on the shore of Long Island Sound near New Haven, CT.

We have heard presentations about the micros found in the 2000+ year old Greek and Roman lead silver mining slags dumped on the Aegean shore at Laurium Greece, and the unusual minerals such as elemental selenium, selenium dioxide, and ammonium hexafluoro silicate, sulfur, galena found at the exit openings of underground burning coal seams and also waste rock piles in Pennsylvania, Pecs, Hungary and elsewhere and gypsum crystals arising from the weathering of limestone containing pyrite.

I wonder what micros might arise from the stuff we put in landfills or the weathering of ash from incinerators or power plants burning coal.

Any way let's all have a productive and enjoyable summer.

## Micromineralogists of the National Capital Area, Inc.

### Previous Meeting Minutes: 5/22/19

by Bob Cooke, Secretary

President Dave MacLean called the meeting to order at 7:45 PM.

No past presidents were present.

Eleven members were in attendance:

Barry Remer, Bob Cooke, Dave Fryauff, Erich Grundel, Jeff Guerber, Dennis Hedrick, Dave Hennessey, Kathy Hrechka, Dave MacLean, Karen & Michael Pabst.



**Old business:** Minutes of the April 2019 meeting were approved as published in the Mineral Mite.

Kathy stated that the final accounting of expenses from the 2019 Atlantic Micromounters' Conference showed a profit. Turning to the 2020 AMC, Kathy announced that Scott Duresky will speak on Saturday evening about his research at the Amelia Mine. Members suggested several candidates to be the featured guest speaker.

**New business:** Dave Fryauff announced three field trips in June.

**1 June; Vulcan Quarry** – Manassas, VA

start time 7:30am

**8 June; Vulcan Quarry** – Stafford, VA

start time 7:30am

**29 June; Mt Pleasant Mills & Middleburg Quarries** Snyder County, PA

start time 9:00am at Middleburg Quarry #1

Kathy thanked club members for contributing articles, etc. to The Mineral Mite, as it was recently awarded 1<sup>st</sup> Place by the American Federation of Mineralogical Societies.

The business meeting was adjourned at 8:23pm.



Meeting: L-R Erich, Dave, David, Jeff

### Previous Program Reviewed: 5/22/19

by Bob Cooke, Secretary

#### Program: Natural History Museum Los Angeles Co. Gem & Mineral Hall

Kathy Hrechka shared her recent discoveries from the Mineral Gallery at the Los Angeles Natural History Museum. While focusing on the systematic mineral collection, she overlooked the obvious, the California gold exhibit. What an amazing historical exhibit, Kathy declared.



The Golden Bear – Official CA state mineral, gold



Alluvial California Gold Nuggets



## Researching a Specimen with a Historical Label

by Jeff Guerber

My ticket was drawn for one of the door prizes at the May 2019 meeting of the Northern Virginia Mineral Club, and after considering several of the available specimens, I selected the one shown in Kathy's photos, identified as uvarovite from Quebec. The whole specimen is about 4 cm x 3.5 cm x 3 cm, largely covered with tiny (mainly < 1 mm), bright green, equant crystals. Certainly, it looks like uvarovite!



The accompanying label is old – handwritten on the back of a flier for the Eastern Federation show in Newark 1 (pre zip code!) NJ, June 25th – 28th, 1964! (“Direct Transportation to WORLD’S FAIR”). The first line, in pen, reads, Uvarovite – green – also Quebec but not Montanbaut. The second line, in pencil, reads, it’s from Bramton.

The number 405 is also written on the label a couple times – I assume that’s probably the original owner’s catalog number. The second line looks a little different, and the writing’s larger, but closely comparing the letters, I think they are in the same hand. Hmm. I wonder where Bramton, Quebec is? Or Montanbaut?

A locality search in Mindat (mindat.org) doesn’t produce any hits, and the closest matches Google Maps and Wikipedia come up with is a Brampton Ontario, near Toronto. But the only Bramptons in Mindat are in the UK, Michigan, and South Africa. Searching for uvarovite from Quebec turned up three localities including the Jeffrey Mine in Asbestos, but none seemed to plausibly be “Bramton”.

Somewhere, though – I haven’t been able to recreate how – I came across a mention of Lac Brompton, Quebec, which is a few miles east of Sherbrooke. And searching Mindat for Brompton turns up the Orford Nickel Mine in the town of St-Denis-de-Brompton, which is on Lac Brompton. According to Mindat, the Orford Mine is “Famous for excellent specimens of diopside, green grossular (chrome-bearing), orange grossular and millerite.” Green, chromian grossular! One reference pointed out that

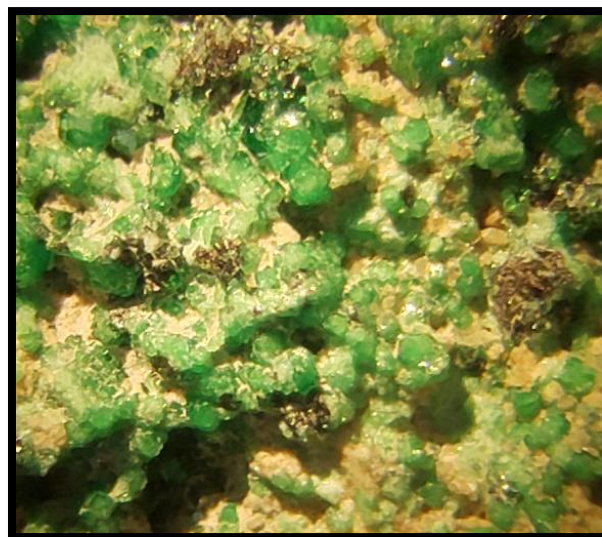
older specimens of green grossular were commonly mislabeled as uvarovite. My specimen does also contain some bladed, straw-colored crystals, which are likely to be diopside. The Orford Mine only operated from 1877 to 1882, but minerals are found on the dumps.

So, I think it’s highly likely that I have green grossular with diopside, from the Orford Nickel Mine in St-Denis-de-Brompton, Quebec, with an interesting old (if incorrect) label. I’ll have to make a new one, with a note about what I’ve found. It turned into a fun research project! I never did find Montanbaut, but one forum discussion I came across complained that Quebec has many place names that are no longer in official use.

Here are some references:

<https://www.mindat.org/loc-605.html>

<https://www.mindat.org/gallery.php?loc=210909&min=1755>



Green grossular with diopside, from the Orford Nickel Mine in St-Denis-de-Brompton, Quebec



Original backside of label - Uvarovite from Quebec

**Congratulations! Job well done!**

We received great news from Mary Bateman, the Eastern Federation's Bulletin Editor Advisory Committee Chair. The following club members received awards for articles written in The Mineral Mite 2018. Certificates were presented on June 3 at the editor's breakfast, Orange County Mineral Society/EFMLS show in Orange County, New York.



**EFMLS BEAC Awardees:**

**Small Bulletins**

Kathy Hrechka, Editor 2<sup>nd</sup> Place  
The Mineral Mite MNCA

**Original Non-technical**

Kathy Hrechka, Honorable Mention  
Mysteries of the Hope Diamond Solved

**Written Features**

Dave Hennessey, Honorable Mention  
NVMC-MNCA Joint Holiday Party

**Written Features**

Kathy Hrechka, Honorable Mention  
Celebration of Life Dr. Pete J. Dunn  
1942-2017 - Ogdensburg, New Jersey

**Original Educational**

Dave MacLean, 7<sup>th</sup> Place  
45<sup>th</sup> Annual Atlantic Micromounters' Conference

**Original Educational**

Kathy Hrechka, 10<sup>th</sup> place  
American Museum of Natural History, NY

**Original Educational Advanced**

Michael Pabst, 5<sup>th</sup> Place  
Rhodochrosite – Buck Hill and Hotazel

**Original Educational Advanced**

Michael Pabst, 6<sup>th</sup> Place  
Benitoite and Pabstite



**American Federation of Mineralogical Societies AFMS**

AFMS/MWF Convention,  
March 22–25 in Cedar  
Rapids, Iowa



**AFMS BEAC Awardee:**

**Small Bulletins**

Kathy Hrechka, Trophy – 1st Place  
The Mineral Mite MNCA



**Cupcake Geo Art by Krista's Kakes**

The best minerals are ones that are pleasing to the eye and sometimes very delicious! These decorated sweets were available at the EFMLS/OCMS show. Check out: [kristashiields.com](http://kristashiields.com)





## Jouravskite and Despujolsite

by Michael Pabst PhD, Treasurer

Jouravskite and Despujolsite are two minerals featuring manganese in the 4+ oxidation state, which gives them a yellow or greenish-yellow color, as opposed to manganese 2+ that gives a pink color to minerals like Rhodonite or Rhodochrosite. Both minerals occur in the Kalahari Manganese Fields of South Africa.



**Jouravskite** is a calcium manganese sulfate-carbonate  $\text{Ca}_3\text{Mn}^{4+}(\text{SO}_4)(\text{CO}_3)(\text{OH})_6 \cdot \text{H}_2\text{O}$ . Jouravskite forms in the Hexagonal crystal system, class 6, space group  $P6_3$ . It has hardness  $2\frac{1}{2}$  and is a member of the Ettringite Group. Named for Georges Jouravsky of the Geological Survey of Morocco. Often associated with white Xonotlite  $\text{Ca}_6(\text{Si}_6\text{O}_{17})(\text{OH})_2$  and pink Bultfonteinite  $\text{Ca}_2(\text{HSiO}_4)\text{F} \cdot \text{H}_2\text{O}$ .

Here is my favorite specimen of Jouravskite at the 2019 Tucson Show. (Price \$1400.) (below enlarged) **Jouravskite**, N'Chwaning III mine, Kalahari Manganese Fields, Kuruman, South Africa. Estimate ~7 cm wide. Photo by Michael Pabst (handheld photo taken at the main Tucson Show).

I ended up buying the specimen of Jouravskite shown below for \$250 from Spirifer Minerals, because it appeared to have good potential for micro crystals to photograph.

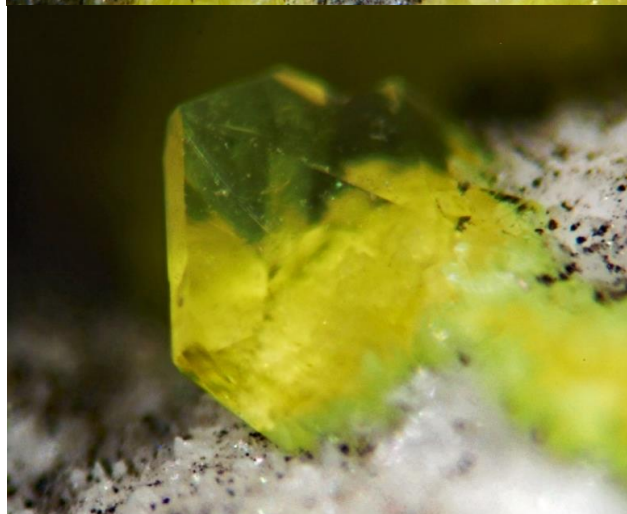


**Jouravskite**, N'Chwaning III Mine, Kalahari, South Africa. 5 cm wide. Handheld photo by Michael Pabst.



## Micromineralogists of the National Capital Area, Inc.

Here are three photomicrographs from my specimen of Jouravskite:



**Jouravskite**, N'Chwaning III mine, Kalahari, South Africa. FOV 3 mm. Photos by Michael Pabst through stereo microscope, stacking 12 images.

My Jouravskite specimen also features a small cluster of crystals whose identity is unknown to me. You are welcome to guess.



Unknown crystals associated with Jouravskite. FOV 2 mm. Photo by Michael Pabst through microscope, 4 images stacked.

**Despujolsite** is a calcium manganese sulfate  $\text{Ca}_3\text{Mn}^{4+}(\text{SO}_4)_2(\text{OH})_6 \cdot 3\text{H}_2\text{O}$ . It also forms in the hexagonal crystal system, but in class  $6^-m2$  ditrigonal dipyramidal, space group  $P6^-2c$ . Hardness  $2\frac{1}{2}$ . Pale yellow to deep yellow green. Member of Fleischerite Group. Named for Pierre Despujols (1888-1981), founder of the Moroccan Geologic Survey. Here is a Mindat link to a photo by Vincent Bourgoïn of a pretty specimen of Despujolsite:

[www.mindat.org/photo-391111.html](http://www.mindat.org/photo-391111.html). There are many pictures on Mindat of bigger and more green specimens. As the crystals become bigger, they become greener and less yellow.

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## Micromineralogists of the National Capital Area, Inc.

Here are three photos from my specimen of Despujolsite, which I purchased for \$48 from South African Minerals of Johannesburg.



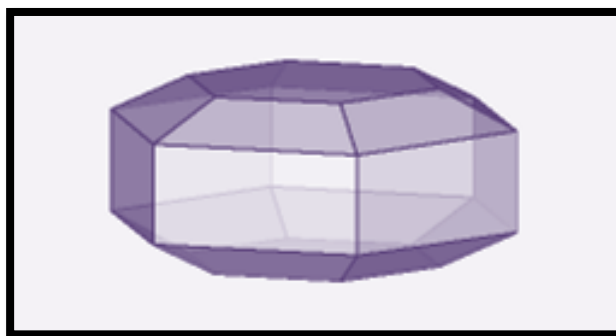
**Despujolsite**, entire specimen, FOV 37 mm. Photo by Michael Pabst, with macro lens, stacking 14 images.

And now two closeup photos of individual Despujolsite crystals from my specimen above.



**Despujolsite**, N'Chwaning III Mine, Kalahari, South Africa. FOV 2 mm. Photos by Michael Pabst through stereo microscope, stacking 6 images.

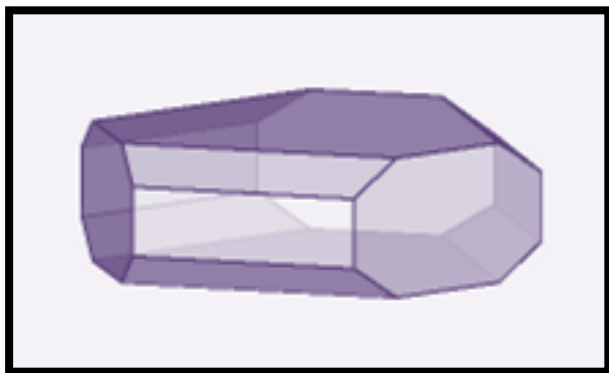
Comparing the chemical formulas of Jouravskite and Despujolsite, we see that Jouravskite is a partly “carbonated” version of Despujolsite. Both minerals contain manganese 4+, making them greenish-yellow rather than pink. Comparing the crystal structures of the two minerals, they are both hexagonal, but Despujolsite has lower symmetry, as shown in the diagrams below:



**Jouravskite**  $\text{Ca}_3\text{Mn}^{4+}(\text{SO}_4, \text{CO}_3)_2(\text{OH})_6 \cdot 12\text{H}_2\text{O}$   
Hexagonal, class 6. Illustration from Kristall  
Nr. J057ab in Mineral Atlas.

[www.mineralatlas.eu/lexikon/index.php/MineralData?mineral=Jouravskit](http://www.mineralatlas.eu/lexikon/index.php/MineralData?mineral=Jouravskit).

continued next page



**Despujolsite**  $\text{Ca}_3\text{Mn}^{4+}(\text{SO}_4)_2(\text{OH})_6 \cdot 3\text{H}_2\text{O}$   
Hexagonal, class  $6\bar{m}2$  - ditrigonal dipyramidal.  
Illustration from Kristall Nr. D049aa by Ulrich Baumgärtl on Mineral Atlas:  
[www.mineralatlas.eu/lexikon/index.php/MineralData?mineral=Despujolsit](http://www.mineralatlas.eu/lexikon/index.php/MineralData?mineral=Despujolsit). Despujolsite is less symmetrical than Jouravskite. This diagram of Despujolsite shows some faces that are not present on all six sides of the hexagonal crystal.

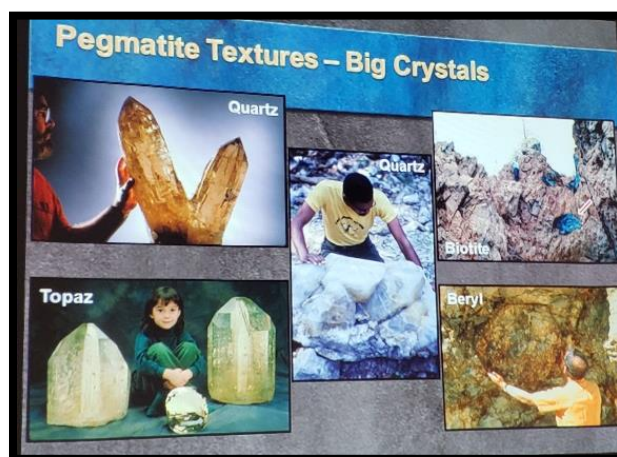
Jouravskite and Despujolsite are similar in color (Despujolsite appears more greenish), chemical composition ( $\pm$  a  $\text{CO}_3$  group), and crystal shape (hexagonal). They both occur at the N'Chwaning III Mine. But, surprisingly, Jouravskite is *not* listed as related to Despujolsite on Mindat! Nor is Despujolsite listed as related to Jouravskite. (Nor are they related on the Mineral Atlas website, so it's not just a Mindat peculiarity).

Another non-scientific similarity is that they are both expensive. I suspect that there might be a warehouse filled with these minerals, and that they are dribbled out to keep the price high. Nevertheless, I spare no expense for my faithful readers!

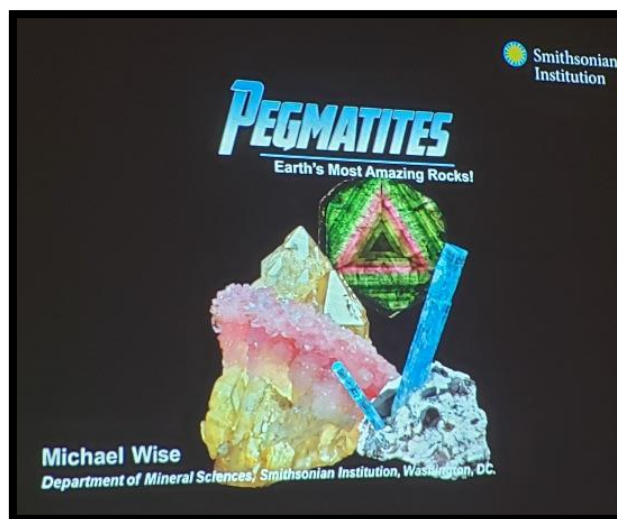
## Dr. Michael A. Wise, Mineral Sciences Department at the Smithsonian

by Kathy Hrechka

Dr. Wise recently presented his research of pegmatites to the Gem, Lapidary, and Mineral Society of Montgomery County club in Maryland. He focused on worldwide pegmatites and their features. He also promoted the 9<sup>th</sup> International Symposium on Granitic Pegmatites which is being held on June 11-18 in Pala, California. Details [PEG2019.com](http://PEG2019.com)



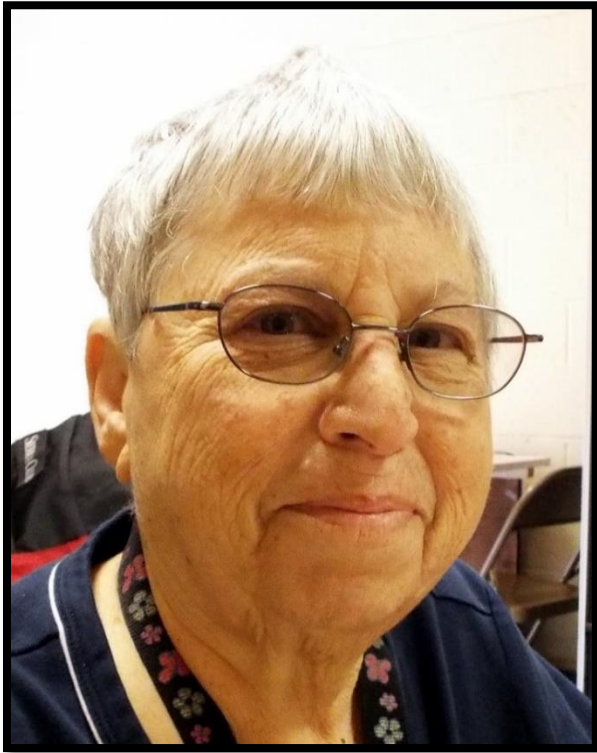
Dr. Wise is featured in center photo with quartz. Note: The faceted topaz was donated by the American Federation Mineralogical Societies through donations by rockhound hobbyists of America.







**In Remembrance of  
Carolyn Weinberger**



Remembering Carolyn at the Chesapeake Gem and Mineral Society show, May 2016  
Photo by John White



Atlantic Micromounters' Conference 2014: Carolyn inspired me to become an editor, as well as mentor my daughter who designed our club website. Photo & caption by Kathy Hrechka Editor, MNCA - Reprinted from the Special Edition of the EFMLS News Volume 66 Number 7 April/May 2019

Carolyn will always be in our hearts.....  
Shirley Leeson, friend and partner in all good things we did. AFMS Past President, AFMS Past Historian



## Mineral Collecting Field Trips:

by Davis Fryauff, Vice-president

**June 8:** Saturday, June 8th meet at the office parking lot of the Vulcan Stafford Quarry at 100 Vulcan Quarry Rd., Stafford, VA. Adults only & collecting only on piles arranged on the floor of the quarry...no berm collecting. RSVP to me by COB on Monday, June 3rd so I can give them our head count. Standard safety gear = shatter-proof eye protection, helmet, steel toes, long pants. Safety vest, gloves, water, sunscreen are all advised. Please acquaint yourself with the attached rules & statement of personal responsibility. Bring this signed, dated "hold no blame" waiver with you when you show up and be prepared to give it to our Vulcan Stafford host. We are out at 11:45. Make sure you label your tools and take home everything you come with. Bring standard safety gear.



**June 29:** Saturday, June 29<sup>th</sup>, we are booked for the National Limestone #1 (Middleburg) & #2 (Mount Pleasant Mills) quarries in Snyder Co. PA on Saturday, June 29th at 9 am in the Middleburg quarry office. These are popular and welcoming quarries and EFMLS clubs throughout the east coast have booked virtually all the other Saturdays in April, May, and June. Meet at the office parking lot of National Limestone Quarry #1, at 3499 Quarry Road, Middleburg, PA 17842. We will sign in and get a safety brief from our host, Mr. Eric Stihl and will work this quarry for 2 hours, then go over to National Limestone Quarry #2 at 217 Quarry Rd, Mount Pleasant Mills, PA 17853. Children age 10 with full standard safety gear and parent are permitted. RSVP to me by COB on

I need I mention that these quarries are great places to collect both minerals and fossils. The Wavellite pit at Mount Pleasant Mills is one of the best sites in PA for the collection of phosphate minerals, but they are generally of a size loved only by micromounters.

This is not all, I hope.... I am working hard to generate field trip opportunities for us in several other new places....VA & PA....maybe WV too.

I am working to restart our winter (Jan or Feb) field trip to the James Madison University Geology Dept., Harrisonburg, VA.

Dr. Lance Kearns, our wonderful host for many years has retired from the department but continues to serve as the curator of the mineral museum. There will be a new location for the museum & department when January 2020 rolls in. I will provide additional updates as I learn more details. It will be great to have this JMU outreach program to the DMV clubs resume!!!

Be safe, be smart, & good hunting!!!

Contact David [fryauffdj@gmail.com](mailto:fryauffdj@gmail.com)



## GeoWord of the Day and its definition:

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

**betpakdalite** (bet-pak'-dal-ite) A lemon-yellow or greenish yellow monoclinic mineral:  $\text{Ca}_2\text{MgFe}^{3+}_3\text{As}^{5+}_2\text{Mo}^{6+}_8\text{O}_{36}(\text{OH}) \cdot 23\text{H}_2\text{O}$

**bonchevite** (bon-chev'-ite) A metallic gray orthorhombic mineral:  $(\text{Pb,Cu})_3\text{Bi}_{11}\text{S}_{18}$ . Probably a mixture of galenobismutite and pekoite.

**orcelite** (or-cel'-ite) A metallic hexagonal mineral:  $\text{Ni}_{5-x}\text{As}_2(x=0.23)$ .

**pyrolusite** (py-ro-lu'-site) A soft iron-black or dark steel-gray tetragonal mineral of the *rutile* group:  $\text{Mn}^{4+}\text{O}_2$ . It is the most important ore of manganese and is dimorphous with ramsdellite. Pyrolusite is generally massive or reniform, sometimes with a fibrous or radiate structure. Syn: *polianite*; *gray manganese ore*.

**tincalconite** (tin-cal'-co-nite) A colorless to dull-white rhombohedral mineral:  $\text{Na}_2\text{B}_4\text{O}_5(\text{OH})_4 \cdot 3\text{H}_2\text{O}$ . Syn: *mohavite*; *octahedral borax*.

GeoWord of the Day is brought to you by: EnviroTech! [envirotechonline.com](http://envirotechonline.com)



## Micromineralogists of the National Capital Area, Inc.



**American Federation of  
Mineralogical Societies**

(AFMS)  
[www.amfed.org](http://www.amfed.org)

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

### **AFMS Purpose: 2018**

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 other related subjects, and to sponsor and provide means of coordinating the work and efforts of all persons and groups interested therein; to sponsor and encourage the formation and international development of Societies and Regional Federations and by and through such means to strive toward greater international good will and fellowship.

The A.F.M.S. Newsletter is published monthly except January, July and August by the American Federation of Mineralogical Societies. Address corrections and changes Subscription Information, Distribution Questions: Each Regional Federation Club is entitled to receive three (3) copies of the AFMS Newsletter. These are usually sent to the President, Editor and Federation Director or Secretary.

Subscriptions are \$4.50 per year Remit payment to the AFMS Central Office Checks should be made payable to "AFMS"

Address maintenance and mailing labeling are the responsibility of the AFMS Central Office. All Central Office Steve Weinberger PO Box 302 Glyndon, MD 21071-0302

<central\_office@amfed.org> 410-833-7926  
Content – Letters Editorial Comments – Submissions  
Any communication concerning the content or format of the newsletter should be sent to the Editor  
<editor@amfed.org>

Deadline is the 1st of each month preceding publication (i.e. April 1 for the May issue)  
Material in this Newsletter may be duplicated for non-commercial purposes provided credit is given this publication and the author.



**Eastern Federation of  
Mineralogical and  
Lapidary Societies**

(EFMLS)  
[www.amfed.org/efmls](http://www.amfed.org/efmls)

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

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

### **Geology Events:**

**June 2019**

**5: Mineralogical Society of DC – MSDC meeting**  
Smithsonian NMNH, Constitution Avenue lobby  
7:30 pm to head up to the Cathy Kerby Room.  
[www.mineralogicalsocietyofdc.org](http://www.mineralogicalsocietyofdc.org)

**10: The Gem, Lapidary and Mineral Society of  
Montgomery County, Maryland - GLMS-MC**  
7:30 pm - Rockville Senior Center, 1150 Carnation  
Drive, Rockville, MD  
[www.glmsmc.com](http://www.glmsmc.com)

**21: The Gem, Lapidary and Mineral Society of  
Washington, DC - GLMS-DC meeting**  
7:00-10pm - Chevy Chase Community Center,  
5601 Connecticut Ave., NW, Chevy Chase, MD  
[www.glmsdc.org](http://www.glmsdc.org)

**24: Northern VA Mineral Club - NVMC meeting**  
7:30–10pm Long Branch Nature Center  
625 South Carlin Springs Road in Arlington, VA  
[www.novamineralclub.org](http://www.novamineralclub.org)

**26: Micromineralogists of the National Capital  
Area - MNCA meeting**  
7:30–10pm Long Branch Nature Center  
625 South Carlin Springs Road in Arlington, VA  
[www.dcmicrominerals.org](http://www.dcmicrominerals.org)

**Micromineralogists of the  
National Capital Area, Inc.**

Geology club  
Meetings 4th Wed monthly; no July/Aug  
7:30 pm - 10pm  
Long Branch Nature Center  
625 S. Carlin Springs Road  
Arlington, VA 22206  
\* Spring Symposium

[www.dcmicrominerals.org](http://www.dcmicrominerals.org)



## Mineralogical Society of America Centennial (1919-2019) Symposium

### The Next 100 Years of Mineral Sciences June 20-21, 2019 in Washington DC

MSA will hold a celebratory Centennial Symposium on June 20-21, 2019 at the [Carnegie Institution for Science Building](#), located at 1530 P St NW, Washington, DC 20005.

Fourteen theme colloquia will offer a vision for exciting new directions in mineralogy, geochemistry, and petrology as MSA begins its second century. Each theme colloquium will include two 20-minute presentations by invited speakers followed by five minutes of moderated audience discussion.

Lunches will be included with your registration fee, and attendees are invited for a private evening reception in the Janet Annenberg Hooker Hall of Geology, Gems, and Minerals in the US National Museum of Natural History, Smithsonian Institution.

We thank the Gemological Institute of America for sponsoring this evening reception. Please join us for this once-in-a-century event!

[http://www.minsocam.org/MSA/Centennial/MSA\\_Centennial\\_index.html](http://www.minsocam.org/MSA/Centennial/MSA_Centennial_index.html) Submitted by Herwig Pelckmans



**Micromineralogists of the National Capital Area**  
Meeting: The 4th Wed. of each month 7:30 -10 p.m.  
Long Branch Nature Center (No meetings June & July)  
625 S. Carlin Springs Road, Arlington VA 22204

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

Pres: Dave MacLean, dbmaclean@maclean-fogg.com  
Vice Pres: David Fryauff, fryauffdj@gmail.com  
Secretary: Bob Cooke, rdotcooke@gmail.com  
Treasurer: Michael Pabst, Michaeljpabst@yahoo.com  
Editor/Historian: Kathy Hrechka, kshrechka@msn.com  
Website: Julia Hrechka, dcmicrominerals@gmail.com  
Conference: Kathy Hrechka, kshrechka@msn.com

#### The society is a member of:

\* Eastern Federation of Mineralogical and Lapidary Societies  
(EFMLS) [www.amfed.org/efmls](http://www.amfed.org/efmls)

\* American Federation of Mineralogical Societies  
(AFMS) [www.amfed.org](http://www.amfed.org) Affiliation

**Dues:** MNCA Membership Dues for 2019  
\$15 (single) or \$20 (family)

**Payable to 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 on 5th.  
No newsletter July/August

**EFMLS Editor's Award**  
**First Place 2016 - Small Bulletins**  
**Inducted into Editor's Hall of Fame – 2018**  
**AFMS Trophy 2019**

#### Member inputs:

- \* Dave MacLean
- \* Michael Pabst
- \* Kathy Hrechka
- \* Bob Cooke
- \* H. Pelckmans
- \* David Fryauff

