

The Mineral Mite

Vol. 53 – No. 9 Washington D.C. – A Journal for Micromineralogists Nov 2020

2 Zoom Meetings November 4 & 25 Time: 7:30 p.m.

Nov 4 – The History and Evolution of the James Madison University Mineral Museum

by Drs. Lance and Cindy Kearns

Lance is Professor Emeritus at JMU and Mineral Museum Curator. Cindy is presently Assistant Professor at JMU and Collection Manager. Together, they will give us a look at the historic events that built a new Mineral Museum. They will share entertaining stories about the many ways of mineral acquisition. Details will be revealed of how the JMU folks brought home and displayed the amazing Peter L. Via collection. Of course, there will be many photos of world class specimens for you to enjoy photographed by Jeff Scovil. Turn to page 2 for more details.

Nov 4 MSDC is hosting on Zoom.

Nov 25 - Collecting at the Red Cloud Mines of Lincoln County, New Mexico

by Dr. Scott Braley, New Mexico

Scott will be discussing the Red Cloud mines of Lincoln County, NM – two small, distinct mines a few hundred feet apart in the Gallinas Mountains, within the Cibola National Forest. The Red Cloud Fluorite mine presents interesting micro fluorites and some rare earth minerals, while the Red Cloud Copper mine yields beautiful vanadinite, wulfenite, mimetite, cerussite, and more. Both have been only sparsely written about in the mineralogical literature, so are only lightly visited.

The Zoom host is Mark Kucera, Yonkers, NY. Turn to page 3 for more details.

President's Message:

by Dave MacLean

Despite the strictures to avoid the Covid-19 virus, we are enjoying meeting online with a wide variety of programs and speakers thanks to Zoom. This week we enjoyed Quintin and Willow Wight's 2007 trip to Russia for a gemology society conference, including trips to diamond and other gem mining localities in Russia. I was amazed to see 16th and 17th century minerals displayed the local museums. Continued page 4

MNCA 2021 Officer Nominations are noted on p 4.

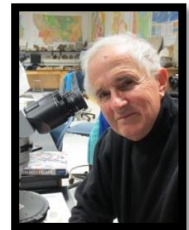


Photo of the Month:



Smithsonite, San Antonio El Grande Mine, Chihuahua, Mexico. From the old JMU museum. Specimen donated by Peter L. Via. approx. 3-4" wide Photo by Michael Pabst, taken Oct 9, 2018.

Nov 4 – The History and Evolution of the JMU Mineral Museum

by Drs. Lance & Cindy Kearns

The museum is set up, but not open. It has not been formally opened by the administration. The Mineral Museum is beautiful, with phenomenal specimens. So, you can at least get to drool over some of the top specimens. The September/October issue of The Mineralogical Record has a major write up of the museum and the specimens, pp703-726. Jeff Scovil took about 60 photos that are in the article.



THE PETER L. VIA COLLECTION AT JAMES MADISON UNIVERSITY

In 2019, James Madison University in Harrisonburg, Virginia received by bequest the extraordinary collection of display-quality mineral specimens assembled over a 20-year period by Peter L. Via.



Elbaite Tourmaline, California. New to the JMU collection. Photo by Jeff Scovil



Fluorite with calcite cast Austrias, Spain
New to the JMU collection, Photo by Jeff Scovil

Biographies

Lance earned a BS in Geology from Waynesburg University in southwestern Pennsylvania. His MS was in the study of Coastal Processes from the University of Delaware. He received his PhD in Mineralogy from the University of Delaware.

Cindy has a BS in Geology from Syracuse University. Her MS was in Metamorphic Petrology from the University of Akron. She received her PhD at George Mason University in Virginia, studying the Pegmatites of Maryland.



Cindy is enjoying field teaching/collecting.

We remember Lance from his original museum.

MNCA members cannot wait to tour!

Nov 25 - Collecting at the Red Cloud Mines of Lincoln County, New Mexico

by Dr. Scott Braley, New Mexico

Biography

Scott has been collecting minerals since childhood, with a focus on microminerals and photography for the last 15 years. He had previously been a member of the NVMC and the MNCA and is a past president of the GLMSMC. After retiring from the Air Force, he completed a PhD and is now a professor at a small college in northern New Mexico. With the recent limitations on travel, he spent much of the summer investigating some less well-known micromineral localities in his area of New Mexico.



Wulfenite, Red Cloud Copper Mine, Lincoln Co. New Mexico FOV 3mm



Vanadinite, Mottramite, Red Cloud Copper Mine, Lincoln Co., New Mexico FOV 2mm



Vanadinite, Mottramite, Red Cloud Copper Mine, Lincoln Co., New Mexico FOV 3mm



Scott striking it rich, Herkimer, NY 2015

President's Message continued

Earlier in October, I heard a slide talk on Zoom by a speaker from Seattle about his trip along the west side of Nevada to the Las Vegas area collecting micro minerals from within abandoned mines and waste rock dumps. This collector collected mostly blue minerals, lots of copper arsenates. He showed slides of unsafe shafts and underground places which he did not enter, including mines closed with concrete structures. The audience consisted of persons from Australia, Canada, UK, USA, and Herwig Pelckmans from Belgium. Zoom has opened opportunities for meeting programs from everywhere. Lets' look forward to a shared Zoom program with MSDC on Wednesday Nov 4, and our regularly scheduled meeting, another program on Zoom on Nov 25.

MNCA 2021 Officer Nominations: Vote in Dec

President – Dave MacLean

Vice President – David Fryauff

Secretary – Bob Cooke

Treasurer – Michael Pabst

Previous Meeting Minutes: 10/28/20

by Kathy Hrechka, Editor

Vice president, David Fryauff introduced our Canadian guest speakers, Quintin & Willow Wight who presented Драгоценные камни и минералы в России Gems and Minerals in Russia. The Zoom program was hosted by Mark Kucera in Yonkers, New York. No business meeting was held, as time was better spent on viewing Wights' Russian touring.

Previous Program Reviewed 10/28/20

Turn to pages 5-6 for details.

MNCA Editor's Note: I received an important notification from Mary Bateman, EFMLS Chair of the Bulletin Editors Advisory Committee. She was elated at how many articles won awards for our club in the BEAC competition last year.

Personally, I am "over the moon" adventuring for micro diamond crystals! Thank you, fellow club members for helping me to create The Mineral Mite. Considering our isolation, composing this newsletter gives me a sense of purpose, next to caring for my family. Again, thank you! Jeff Guerber rocks!

EFMLS Awards and Certificates

The Eastern Federation of Mineralogical and Lapidary Societies

Congratulations MNCA!



Original Educational Articles

Trophy: Jeff Guerber, Researching a Specimen with a Historical Label

*Fifth Place Award: Kathy Hrechka, Rochester Mineralogical Symposium

Original Educational Articles – Advanced

*Fourth Place Award: Michael Pabst, Umohoite and Calcurmolite

*Fifth Place Award: Michael Pabst, Inesite and Hubeite

Non-Technical Articles

*Second Place Award: Kathy Hrechka, Tyrannosaurus Rex Commemorative Forever Stamps First Day

Written Features – Adults

*Eighth Place Award: Kathy Hrechka, The Colorful Art of Micromounting

AFMS Awards and Certificates

American Federation of Mineralogical Societies



Congratulations MNCA!

Adult Articles – Advanced

Honorary Mention: Michael Pabst, Inesite and Hubeite

Written Features – Adults

Ninth Place Award: Kathy Hrechka, Tyrannosaurus Rex Commemorative Forever stamps First Day

Note: The AFMS excludes the category of Original Educational Articles, therefore, Jeff Guerber's "EFMLS Trophy" article did not get submitted to the American Federation BEAC for judging.

Previous Program Reviewed 10/28/20

by Dave MacLean & screen shots by Kathy Hrechka

Program: Драгоценные камни и минералы в России Gems and Minerals in Russia

by Col Quintin and Willow Wight from Canada

Photo: Quintin & Willow say that some specimens are more fun than others. This vug in siderite is mounted at the Urals State Mining University in Ekaterinburg.



All Photos by Wights

Willow Wight, now a retired editor of The Canadian Gemologist, attended the July 2007 International Gemmological Conference ICC in Moscow, Russian Federation. Her presentation featured the Canadian Gemmological Exploration and Discovery in Canada's North. Quintin Wight, author of the Complete Book of Micromounting, went as a guest. The conference included before and after conference field trips to other mines and museums of Russia.

Before the conference, the group went to Mirnyy in a diamond mining area 5,000 km east of Moscow in Siberia's permafrost zone and in summer an area of taiga spruce forest, swamps, and mosquitos. The mine in a kimberlite pipe consisted of a hole 520 meters deep and 1km across. The group visited the crusher shed, observed the hand sorting of diamonds, and saw artwork of microdiamonds on a table and visited the local Kimberlite Museum.



Artwork: The title says, "Congratulations!" designed with uncut diamonds, garnets & olivine crystals.



In 2007 Willow was the Canadian delegate to the International Gemmological Conference in Moscow, by invitation of the Russian Academy of Sciences. 113 delegates represented 27 countries. Pre and post conference tours included Siberian diamond mines, Ural Mountain emerald and demantoid mines.

In Moscow they toured the Fersman Mineralogical Museum founded in the 1700's, where they saw malachite collected in the 1700's and a 1745 kg iron meteorite which fell as part of a shower in 1947. In the Kremlin they saw the collection of Catherine the Great in 1762. In many of the museum visits, taking photographs were forbidden. Conference attendees received gifts of slabs of artificial quartz.

After the conference, the group went to Ekaterinburg in the Ural Mountains. The rocks are sedimentary west of the Urals and igneous/metamorphic east of the Urals, where they saw cast iron statuary.

North east of Ekaterinburg they toured the Malyshev mine where miners drilled, blasted and hand sorted emeralds from phlogopite schist. When the women sorters found an emerald, they dropped immediately into lock box to prevent theft. Phenakite crystals were also in the schist. The Ekaterinburg museum displayed crystalline quartz, crocoite, rhodonite, a coffee table made of malachite, gypsum carvings, 15cm emeralds and demantoid garnets. The group visited the demantoid garnet camp 30 km which is north east of Ekaterinburg. The small and expensive demantoid garnets were found in antigorite seams in dolomite. Immersing the ore in water and applying 240KV broke up the matrix and liberated the garnets.

continued next page

Previous Program Review continued

The group traveled north 1,211km to Arkhangelsk near the Arctic Circle. The Russians were mining diamonds in a strip of six kimberlite pipes. Many of the diamonds were micro and dark green. When the English sought to traverse the Northeast Passage to the orient, in 1553 they ended up here in Arkhangelsk.



Collecting anything on these visits was not permitted. Men in dark suits at each site, wearing red ties watched carefully, and clearly indicated that taking waste rock was forbidden. Quintin said the Russians were quite paranoid about anyone taking minerals out of Russia.



Mirny from the air – excavation & spoil heaps



Left photo: Col. Quintin, “This little emerald clunker weighs in at ten kilos”.



Right: Catherine the Great's Imperial Crown 1762



Fersman Mineralogical Museum in Moscow



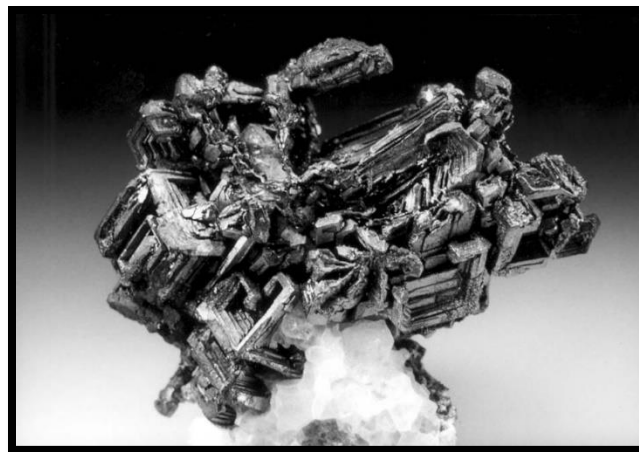
Matryoshka doll with synthetic quartz gift to Willow

MNCA Editor's Note: Thank you Quintin & Willow for sharing your amazing tour of Russia with our micromineral club members. Your dialogue together and memories were simply amazing. We wish you many more adventures to share with us in the future.

Aguilarite and Naumannite, and Cerveleite and Hessite

by Michael Pabst PhD, Treasurer

If Nature substitutes selenium for the sulfur in the silver mineral Acanthite Ag_2S , the result is Aguilarite Ag_4SeS or Naumannite Ag_2Se . (See Acanthite article in September 2020 Mineral Mite.) Selenium is above sulfur in the Periodic Table, so the switch is easy. Above selenium is tellurium, giving Cerveleite Ag_4TeS_2 , which is not much to look at, and Hessite Ag_2Te , which can be attractive. But Aguilarite is the most impressive, as the photo below shows.



Acanthite, Aguilarite, and Cerveleite are members of the Acanthite Group; Hessite is similar in structure. They are all monoclinic $2/m$ - prismatic, with $\beta = \sim 100^\circ$. Argentite, the high-temperature form of Acanthite is isometric, and Naumannite is orthorhombic $2\ 2\ 2$ - disphenoidal. All these silver minerals are gray and have a Mohs hardness of 2-2½. It is difficult to tell Aguilarite from Acanthite by sight because they have the same crystal structure (isostructural). You would have to analyze the ratio of sulfur to selenium to differentiate Acanthite and Aguilarite.

Aguilarite was named for Professor Ponciano Aguilar (1853-1935), who discovered the species at the San Carlos Mine, La Luz, Guanajuato, Mexico. I have seen a bust of him at the Mineral Museum in Guanajuato.

Naumannite was named for Georg Amadeus Karl Friedrich Naumann (1797-1873), a mineralogist and crystallographer.

Cerveleite was named for Professor Bernard Cervele (1940-), a mineralogist from the University Pierre and Marie Curie, Paris.

Hessite was named for Germain Henri Hess (1802-1850), who developed a Hess's Law in chemical thermodynamics, which is impressive, as anyone who has had to learn thermodynamics will tell you.

Below is a wonderful Mindat photo of Aguilarite from the San Carlos Mine in Guanajuato, Mexico.

[The web link is: www.mindat.org/photo-216869.html (minID MQX-34G).]

Aguilarite, San Carlos Mine, La Luz, Guanajuato, Mexico. Photo by Terry Wallace, who acquired the specimen from Victor Yount, who acquired it from the Sorbonne. Estimated FOV 50 mm. (Photo in Public Domain)

There is one good picture of Naumannite on Mindat: www.mindat.org/photo-215805.html. It comes from the De Lamar Mine in Owyhee County, Idaho. From that same mine, I have a specimen that might be Naumannite, but it could be Stephanite or dark Pyrargyrite. It is labeled Polybasite, but it does not look at all like Polybasite to me. There will be pictures of Polybasite and Stephanite in later articles.

Now let us look at a nice Hessite: www.mindat.org/photo-507121.html. This Hessite specimen from Romania reminds me of a famous sculpture of a horse by Raymond Duchamp-Villon (1876-1918). Click on the Mindat link, and compare it with this: www.guggenheim.org/artwork/1107 or www.tate.org.uk/art/artworks/duchamp-villon-large-horse-t02307.

My own collection of these silver selenides and tellurides is limited to two specimens, one Aguilarite from Guanajuato, and one Naumannite from Idaho. The Aguilarite is small and not impressive, but here it is:

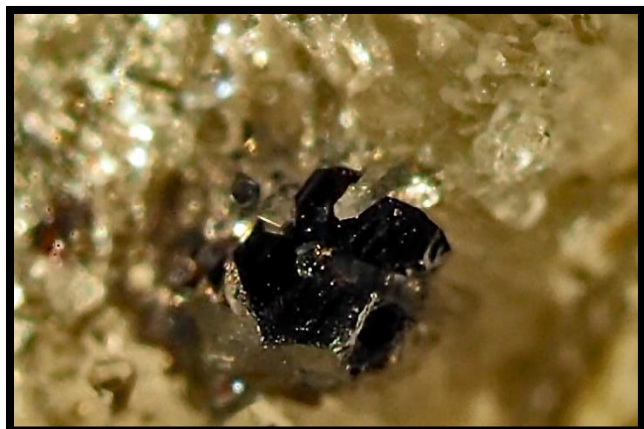
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Aguilarite continued



Aguilarite with Quartz and Silver, from Guanajuato, Mexico. FOV 5 mm. Photo by Michael Pabst, using Olympus camera with 60 mm macro lens + Raynox DCR-250 lens, stacking 23 photos. This is a complicated specimen with native Silver and Quartz, and possibly Acanthite. (I rely on the label that says Aguilarite because it cannot be distinguished from Acanthite by sight.)

Here is my Naumannite:



Naumannite from De Lamar Mine, Owyhee Co., ID. FOV 2 mm. Photo by Michael Pabst, using macro + Raynox lens, stacking 20 photos.

In the next article, we will get away from these gray and black silver minerals and try to find some red or orange silver minerals.

Fluorite on Michael Pabst's mindat

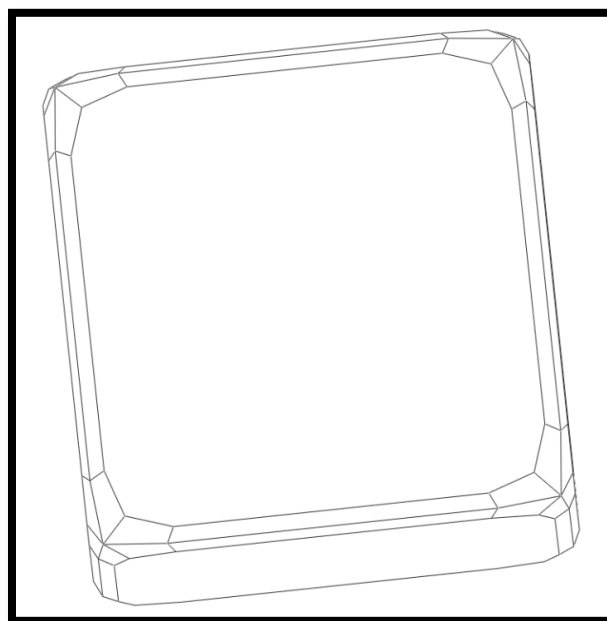


Fluorite, Morenci Mine, Copeland, Cumbria, England, UK

Herwig Pelckmans created the drawing of this fluorite. The fluorite crystal has three forms: the major form is the cube {100}. Every corner of every cube face is modified by two small faces of the hexoctahedron (I used {731} for this drawing).

Finally, every edge of the cube was cut off by two very small, elongated, rectangular faces that are parallel to each other.

These are faces of the "pyramid cube" or tetrahexahedron (I used {210} for the drawing).



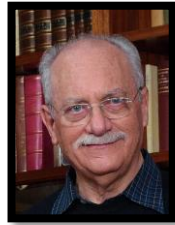
Fluorite drawing by Herwig Pelckmans, Belgium

**64th Annual Paul Desautels
Micromount Symposium -
Zoom Success Oct 10, 2020**

by Kathy Hrechka, assisted by Mike Seeds



**Micromounters Hall of Fame
Renato Pagano (1938 -)**



Raised in the Ligurian region of Italy, Renato Pagano was exposed to rocks and minerals at an early age and has continued to collect and study minerals ever since. Although he does not define himself as a micromounter, his systematic collection of over 13,000 specimens representing more than 3,000 species contains a large proportion of micromounts.

Renato's contributions in the field of micromountings are far larger than a simple collection. One of the founding members of the *Associazione Micromineralogica Italiana* (AMI), Renato has helped to steer that organization through the discovery and description of 37 new species by its members. Furthermore, he was also a founder of the *Gruppo Mineralogico Cremonese* (GMC) in Cremona and has been an ardent supporter of its annual micromount symposium during the 44 years of its existence.

Renato's support of micromounting has not been limited to Italy. He is known internationally for his mineralogical articles in scientific journals, and he has been welcomed as an invited speaker at micromount and other symposia across the United States from New York to California. In an analogy to baseball perhaps, while Renato may not consider himself to be a micromount player *per se*, he has been a powerful influence on the managerial side of micromounting for over 40 years. He has acted as a judge in micromount competitions many times, and his support has encouraged others to strive for success. His performance in the field of micromounting has earned him a well-deserved place in the Micromounters' Hall of Fame.

Renato Pagano from Milan, Italy presented "The Sulfur Mines and Minerals of Sicily."



Sulfur, aragonite, gypsum from the Cianciana mines, 45 km NW of Agrigento, Italy



Bituminous sulfur crystals 6 cm, Cozzo Disi mine, Casteltermini, Italy



Strontianite in acicular crystals with **sulfur** and 2 cm **celestine** crystals, Lucia Mine, Agrigento, Italy

Micromineralogists of the National Capital Area, Inc.

Micromounters Hall of Fame Dr. Michael A. Seeds (1942 -)



Michael A. (Mike) Seeds, a retired Professor of Astronomy, has been a dedicated micromounter for more than twenty years. During that period, he has demonstrated a willingness to help others and to advance micromounting and the study of mineralogy in exemplary fashion.

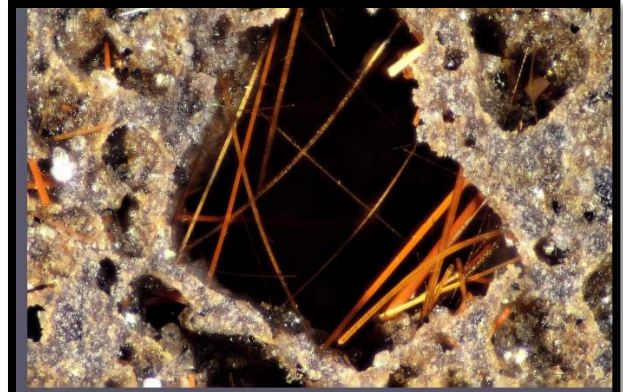
Much of his work has been in association with the Baltimore Mineral Society, presiding as president for four years, editing the society bulletin, *The Conglomerate*, for more than ten years, and Chairing the society's annual *Paul Desautels Memorial Micromount Symposium* for a similar length of time.

Early in his tenure as bulletin editor, Mike began writing and publishing small articles on micromounts and minerals under the title *Shoebox Adventures*. His articles are well researched and illustrated by photomicrographs he has taken. The quality of the articles is such that they have been taken up by other bulletin editors world-wide, and are now being published across the USA, and as far as Canada, England, and New Zealand. He has now written and published more than one hundred *Shoebox* articles that have gained him a far-flung readership. In addition to his writing skills, Mike is also an accomplished speaker, having performed at international mineral symposia in support of micromounting.

Mike's personal collection is a combination of self-collected and purchased rare materials that he trades and shares freely with others in aiding their collections and knowledge of minerals. His work and energy in support of other micromounters has made him a worthy member of the Micromounters' Hall of Fame.

Mike Seeds from Lancaster, Pennsylvania presented "The Universe in a Micro Box."

MNCA Editor's Note: I wish to thank Mike for a wonderful conference via Zoom. The auction was well received, as bids were driven up by attendees around the US. Congratulations to Renato Pagano and Dr. Michael A. Seeds for being inducted into the Micromounters Hall of Fame 2020.



Kaersutite
 $\text{NaCa}_2(\text{Mg}_3\text{AlTi}^{4+})(\text{Si}_6\text{Al}_2)\text{O}_{22}\text{O}_2$

Eifel
Germany

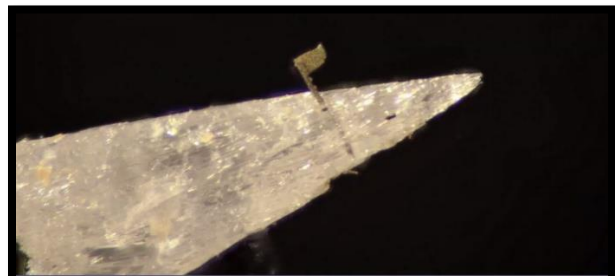
Kaersutite, Eifel, Germany



Strontianite
 SrCO_3

Meckley's Quarry, Mandata, Pennsylvania

Strontianite, Meckley's Quarry, Mandata, PA



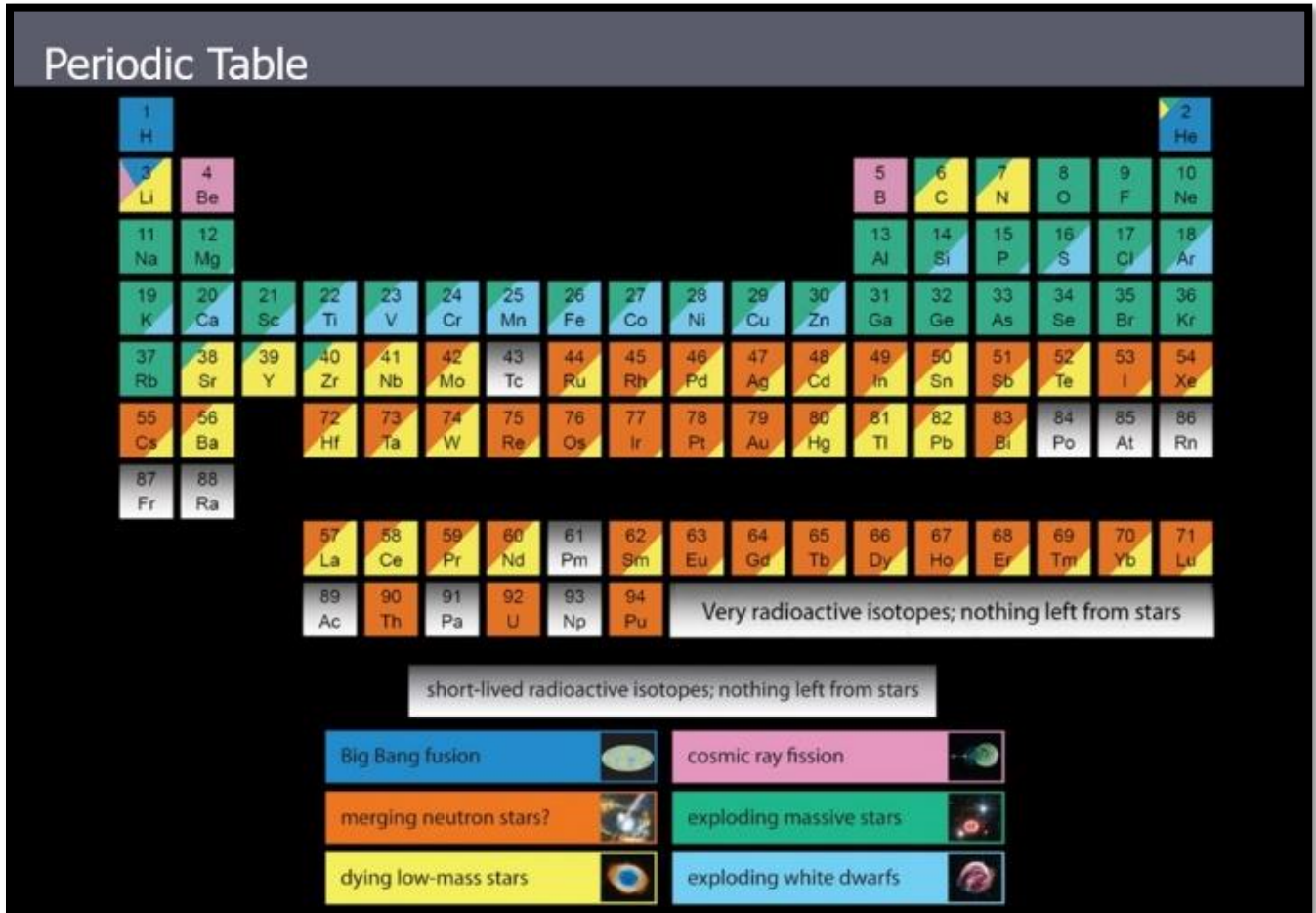
Pyrite on Calcite
 FeS_2

Rt 8 Roadcut, Watertown Connecticut
1963 Marcelle Weber

Pyrite on Calcite, Rt. 8 Roadcut, Watertown, CT

Astronomer Dr. Mike Seeds

Sees Atomic Nuclei



American Scientific Periodic Table

“The Universe in Microminerals”

Mineral Talks Live Wednesdays 1pm

<http://go.mineraltalkslive.com>



There is Gold in Virginia!!!!

by Dennis Hedrick

Earlier in the year, I was able to search for gold in Buckingham County, where there still is the ability to look for placer gold. The gold almost 140 years ago, was found/mined in lode deposits found along the Appalachian Mountain Gold belt, which extends from Maine to Georgia and is found in small, elongated bands.

The gold deposits found currently are either found in previously mined tailing piles or in streams along private land/claims. There are still some limited gold/quartz lode deposits and erosion that places small sized flakes of gold in the streams. The gold found in the picture was near a stream off one on the claims from the Central Virginia Gold Prospectors Club (CVGP).

I want to pursue gold mining equipment production of silicone-based sluice mats and other related silicone-based products. I encourage others to get out and explore either in sponsored events or via private landowners. It pays to get on the internet and do your own research, then seek legal ways to prospect for minerals or gems.

I am open to trying to assist in leading folks on legal/sanctioned prospecting trips in the Virginia and West Virginia areas. I can be reached via the following email addresses:

Dennis Hedrick

n7nxv@yahoo.com

advancedgoldsolutions@yahoo.com.



Gold from Buckingham County, Virginia
Photo by Dennis Hedrick



GeoWord of the Day and its definition:

chlorargyrite (chlor-ar'-gyr-ite) A white, pale yellow, greenish, or gray cubic waxlike mineral that darkens on exposure to light: AgCl . It occurs in the weathering zones of silver-sulfide deposits and it represents an important ore of silver. Syn: *cerargyrite*; *horn silver*.

geomagnetic longitude Longitude reckoned around the geomagnetic axis instead of around the Earth's rotational axis. Cf: *geomagnetic latitude*.

manganolangbeinite (man"-ga-no-lang'-bein-ite) A rose-red cubic mineral of the *langbeinite* group: $\text{K}_2\text{Mn}^{2+}_2(\text{SO}_4)_3$

sobolevite (so'-bo-lev-ite) A brown triclinic mineral: $\text{Na}_{11}(\text{Na},\text{Ca})_4(\text{Mg},\text{Mn}^{2+})\text{Ti}_4(\text{Si}_2\text{O}_7)_2(\text{PO}_4)_4\text{O}_3\text{F}_3$

All terms and definitions come from the [Glossary of Geology, 5th Edition Revised](#).
GeoWord of the Day is brought to you by: EnviroTech!
envirotechonline.com<wordoftheday@agiweb.org>

Scrambles: Unscramble the following.

Adapted from The Conglomerate, Baltimore Mineral Society newsletter Vol 15 #10 Oct 2020

Lilac scone _____

Geared lint _____

Sit Auntie _____

I curtsied _____

Violin tee _____

Finally, what do all of these have in common?
Answers on page 13

Micromineralogists of the National Capital Area, Inc.



American Federation of Mineralogical Societies

(AFMS)
www.amfed.org



Eastern Federation of Mineralogical and Lapidary Societies

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

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

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

2020 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.

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

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

**Local Geology Club Meetings: Zoom
 November 2020**

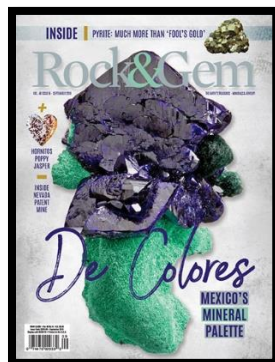
4: MSDC host - MNCA, NVMC, GLMSMC invited Mineralogical Society of Washington DC
 7:30 Zoom Drs. Lance & Cindy Kearns JMU
www.mineralogicalsocietyofdc.org

9: The Gem, Lapidary and Mineral Society of Montgomery County, Maryland - GLMS-MC
 7:30 pm - Zoom www.glmsmc.com

20: 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 **Canceled**

23: Northern VA Mineral Club – NVMC meeting
 7:30 Zoom www.novamineralclub.org

25: Micromineralogists of the National Capital Area, Inc. - MNCA (regular meeting date)
 7:30 Zoom Dr. Scott Braley, New Mexico
www.dcmicrominerals.org



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

Scrambles: Answers
 Lilac scone _____ Clinoclase _____
 Geared lint _____ Legrandite _____
 Sit Auntie _____ Austinite _____
 I curtsied _____ Scorodite _____
 Violin tree _____ Olivenite _____

What do all of these have in common? Arsenates

Micromineralogists of the National Capital Area, Inc.

Zoom Invite Webinar on Nov 4

1:00 PM Eastern Time (US and Canada)

Topic: **Mineral Talks LIVE** Hosted by Blue Cap Productions in Honolulu, Hawaii, sponsored by the Geological & Mineralogical Museum at Harvard

Register in advance for this webinar:

<http://go.mineraltalkslive.com/register>

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



Emanuele photo Fluorite, Denton Mine, Illinois

Emanuele Marini, since the early age of 10, initiated an interest and passion in mineralogy and in collecting minerals. During his youth, he developed a great aesthetic taste and knowledge in mineralogical specimens from Italy and worldwide. At the age of 18 he officially established his own company dealing with minerals and preparations on his own specimens, including trimming, cleaning, and repairing techniques achieving incredibly good results. He graduated in Geology at the University of Milan with a Master in Ore Geology and Industrial Minerals which enhanced his practical experience by the added scientific background. During the years, he continued developing a deep, diversified knowledge and experience on specific lab treatments and nowadays he owns one of the most important laboratory well known worldwide for the preparation of mineral specimens, [Nimeral Min-Lab](#) located in Milan, Italy.

If you miss a previous episode, they are posted 30 days after the event. Posted so far are; Dr. Eloïse Gaillou, Robert Lavinsky, Peter Megaw, Thomas Bellicam, Dr. Raquel Alonso-Perez, Diana and Ian Bruce, Patrick Dreher, Prof. John Rakovan, Dr. Vera Hammer, Ryan Roney, Bill Larson, Jolyon Ralph, Salim Eddé, George Rossman, The Collector's Edge, Daniel Trinchillo, Jack Halpern 100th birthday!

Micromineralogists of the National Capital Area

Meeting: The 4th Wed. of each month 7:30 -10 p.m.
Long Branch Nature Center (No meetings July & Aug)
625 S. Carlin Springs Road, Arlington VA 22204
Phone (703) 228-6535 (**Long Branch is still closed**)

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

President: Dave MacLean

Vice President: David Fryauff

Secretary: Bob Cooke

Treasurer: Michael Pabst

Editor/Historian: Kathy Hrechka

Website: Julia Hrechka

AMC Conference: Kathy Hrechka

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

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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

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AFMS Trophy 2019

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