

Zoom Meeting January 27 Time: 7:30 p.m.

Some Pennsylvania Microminerals

by Steve Stuart of Bethlehem, Pennsylvania

Steve will introduce his photography setup and technique, followed by a gallery of 50-60 images of Pennsylvania micros that he has accumulated since moving to the state in April of 2017.

Biography: Steve Stuart, Bethlehem, PA: Steve is a retired fire protection and risk management consultant, since January 2016. He and his wife moved to Bethlehem, Pennsylvania in April of 2017, from Detroit, Michigan. His childhood interest in chemistry, nature and minerals was rekindled in 1995 when he started to collect fluorescent mineral. In the late 1990s, he bought a stereo microscope, which opened a whole new world for him. Steve posted his first photo to Mindat in 2004, and now has over 2,500 images on Mindat. He has attended the Atlantic Micromount Conference since 2017. Steve is a member of the Canadian Micromineral Association, and has edited their newsletter, the MicroNews, since 2016. Zoom host is Mark Kucera in New York

Photo of the Month:



President's Message:

by Dave MacLean

Our zoom meeting programs for 2020 have been informative and interesting. I remember the micro mineral tour of old mines from MW Nevada to Las Vegas, the mineral exploration account in Central Alberta, what's new at the Smithsonian, Minerals of the State of Victoria, Australia, Scott Braley's micro mineral collecting trips to two small, long abandoned mines in New Mexico, a mineral and museum tour in the Russian Federation and colorful history and minerals in another abandoned mine in New Mexico. The persons attending these zoom talks included MNCA members and a large audience of persons from the USA, western Europe, Canada, and Australia. Zoom programs can keep us together and participate if each of us signs into the programs. Enjoy them

I believe that covid-19 will keep all of us wearing our masks, complying with social distancing six feet apart and avoiding crowds inside including family members living outside our homes until Fall 2021. Hopefully enough of us will be vaccinated to allow in person meetings by Fall 2021. In the meantime, be safe; wear a mask, comply with social distancing, and avoid crowds even those of family outside our households.

Notice: Our Atlantic Micromounters' Conference will be held via Zoom, Saturday April 10, 2021.
By Kathy Hrechka, Conference Chair

Strontianite from National Limestone Quarry #2, Snyder County, PA. 2mm FOV.
Photomicrography by Steve Stuart



Previous Meeting Minutes: 12/23/20

By Bob Cooke, secretary

There was no business meeting, therefore nothing to report.



Treasurer's Report:

by Michael Pabst

Michael recommended that no dues be collected for 2021, since our meeting place at the nature center has been closed since March of last year.

Announcing officers of MNCA 2021

President – Dave MacLean

Vice President – David Fryauff

Secretary – Bob Cooke

Treasurer – Michael Pabst

Editor's Note: Awards from the American Federation

Congratulations Jeff Guerber & Michael Pabst!

Previous Program Review: 12/23/20

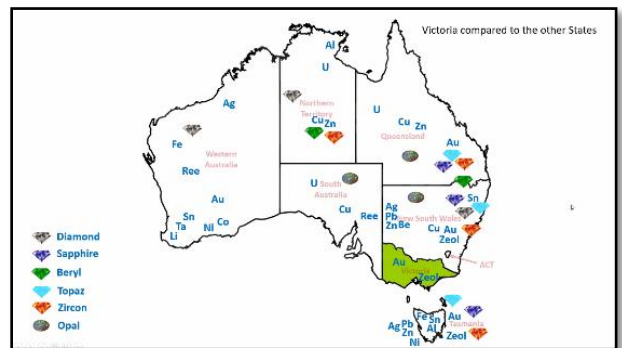
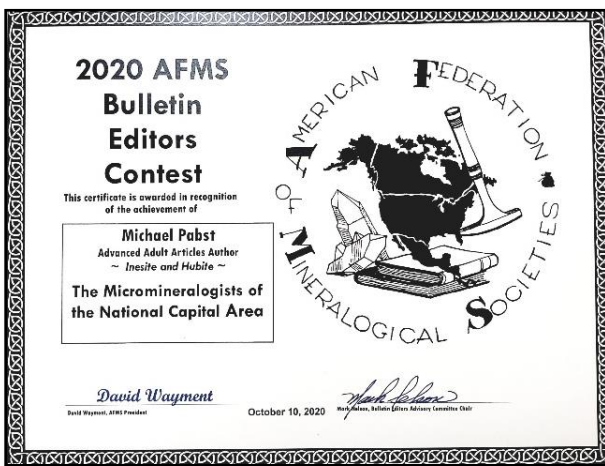
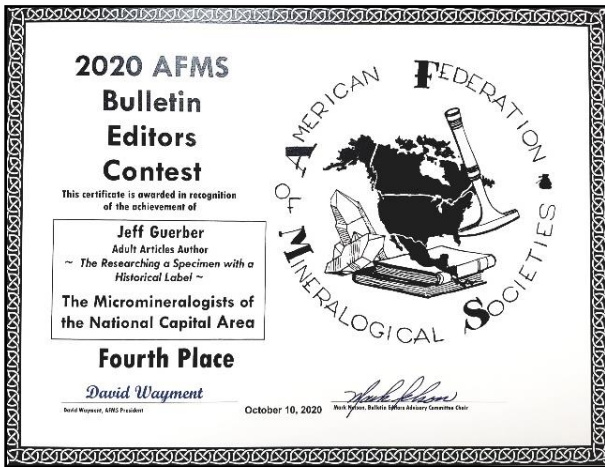
“An Introduction to the Minerals of Victoria, Australia”

Steve Sorrell from Melbourne Australia “wowed” our MNCA audience of forty-six viewers via Zoom for our December club program. We noted that much of his photomicrography of minerals were amazing, stacked as many as 180 frames. His presentation was not only historical, but it also contained unusual microminerals from locations “down under.”

Steve has had a keen interest in minerals for over 30 years and held the position of Vice President of the Mineralogical Society of Tasmania for many years. He is an enthusiastic collector, and enjoys photographing minerals (particularly micro minerals), and drawing or painting mineral specimens. He is the editor of the “Monthly Mineral Chronicles”, now into its third year, and has compiled the “What’s New” section in recent editions of the Australian Journal of Mineralogy.

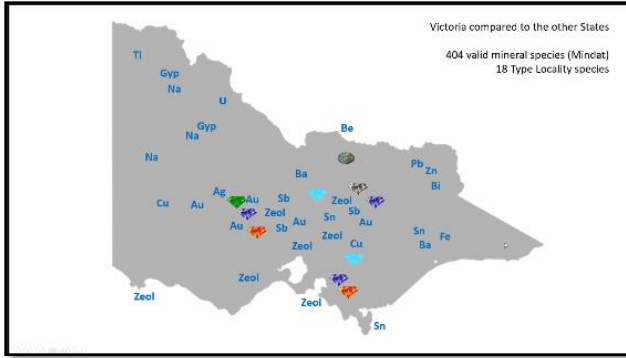
Steve is very active on Social Media, and in particular, the Mineral Hub established on MeWe (mewe.com/i/stevesorrell2). All mineral collectors are welcome. Recently retired, his current venture is the production of photo-rich mineral locality guides. Flinders (Victoria) and Spring Creek (South Australia) have already been published, and Lake Boga (Victoria) is currently in progress. Details can be found here - <https://sorrellpublications.com>.

Screen shots by Kathy Hrechka



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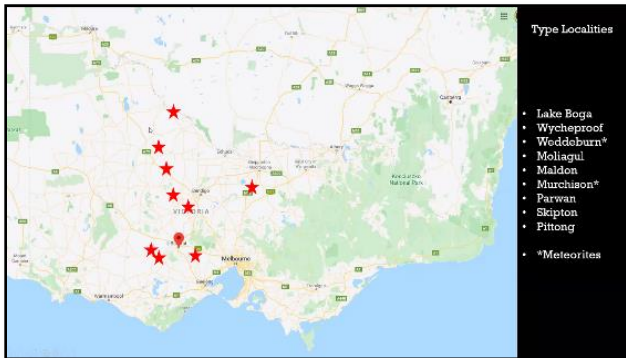
Micromineralogists of the National Capital Area, Inc.



Zeolites and other minerals from basalts...

Flinders
Connellite
Natrolite
 $Cu_3(SO_4)(OH)_2Cl_2 \cdot 3H_2O$
 $Na_2Al_2Si_2O_8 \cdot 2H_2O$

Wow: 1.5 mm
Stack of 18



Zeolites and other minerals from basalts...

Bundooora
Calcite
 $CaCO_3$

Wow: 3 mm
Stack of 64

Type Localities...

Lake Boga
Ulrichite
 $CaCu(UO_2)_2(PO_4)_2 \cdot 4H_2O$

Wow: 7.5 mm
Stack of 200

Other TL species:
Beauregardite and Lakebogite

Wow: 3.75 mm
Stack of 100

Wow: 7.5 mm
Stack of 150

Zeolites and other minerals from basalts...

Bundooora
Chabasite
Analcime
Calcite
 $(Ca,K_2Na_2)(Al_2Si_4O_{14}) \cdot 12H_2O$
 $Na(AlSi_3O_8) \cdot H_2O$
 $CaCO_3$

Wow: 3 mm
Stack of 66

Zeolites and other minerals from basalts...

Jindivick
Lévyne
 $(Ca,Na,K)(Al_2Si_2O_{10}) \cdot 6H_2O$

Wow: 3 mm
Stack of 80

Zeolites and other minerals from basalts...

Spring Hill, near Trentham
Ilmenite
 $Fe^{2+}TiO_3$

Watercolour

continued next page

Micromineralogists of the National Capital Area, Inc.

The Granites

Lake Boga
 Mcurigitic Na
 Cynrilovite
 Pseudomalachite
 $\text{NaFe}^{2+}_2(\text{PO}_4)_2(\text{OH}) \cdot 6.5\text{H}_2\text{O}$
 $\text{NaFe}^{2+}_2(\text{PO}_4)_2(\text{OH}) \cdot 2\text{H}_2\text{O}$
 $\text{Cu}_2(\text{PO}_4)_2(\text{OH})_2$

WoV: 2.33 mm
 Stack of 50




Miscellaneous Minerals...

Dookie
 Axinite (Fe)
 Actinolite
 Andradite
 Tremolite
 $\text{Ca}_2\text{Fe}^{2+}\text{Al}_2\text{BSi}_4\text{O}_{13}\text{OH}$
 $\square[\text{Ca}_2(\text{Mg}_{2-2x}\text{Fe}_{x-2.5}\text{Si}_6\text{O}_{22}\text{OH}_2)]$
 $\text{Ca}_2\text{Fe}^{2+}_2(\text{SiO}_4)_2$
 $\square[\text{Ca}_2(\text{Mg}_2)(\text{Si}_6\text{O}_{22})](\text{OH})_2$

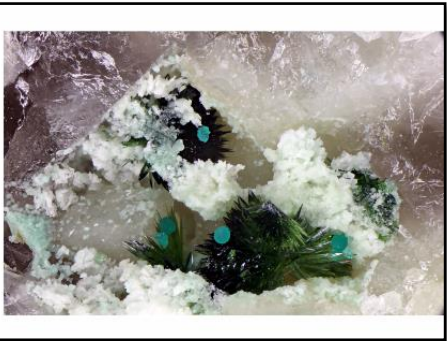
WoV: 9 mm
 Stack of 180




The Granites

Lake Boga
 Libethenite
 Pseudomalachite
 $\text{Cu}_2(\text{PO}_4)_2(\text{OH})_2$
 $\text{Cu}_2(\text{PO}_4)_2(\text{OH})_2$

WoV: 3.5 mm
 Stack of 60




Miscellaneous Minerals...

Yarra Glen
 Subnite
 Sb_2S_3

WoV: 3.5 mm
 Stack of 90




The Granites

Lake Boga
 Sampletite
 $\text{NaCaCu}_2(\text{PO}_4)_2\text{Cl} \cdot 5\text{H}_2\text{O}$

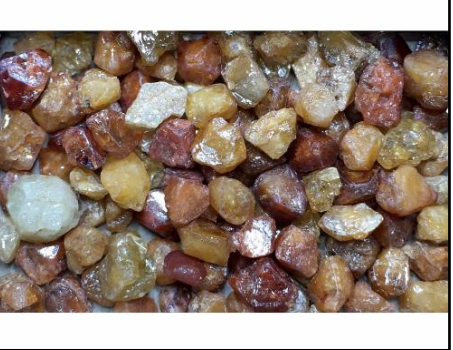

WoV: 9 mm
 Stack of 100




Alluvials...

Lake Bullenmerri, Camperdown
 Zircon
 $\text{Zr}(\text{SiO}_4)_2$

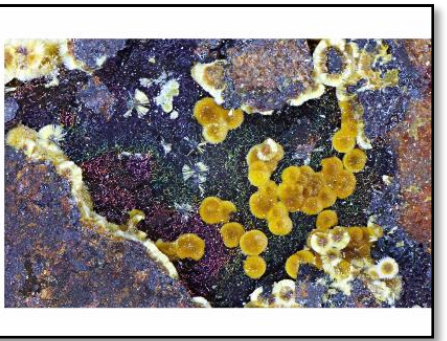

WoV: ~9 mm

Other Phosphates...

Gravel Hill Quarry, Ascot Hills
 Coconenite
 $\text{Fe}^{2+}_2\text{AlO}_3(\text{PO}_4)_2(\text{OH})_2 \cdot 7.5\text{H}_2\text{O}$

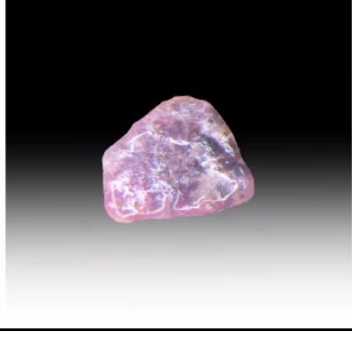

WoV: 3.5 mm
 Stack of 35

Alluvials...

Bell's Beach
 Zircon
 $\text{Zr}(\text{SiO}_4)_2$

Width: 2 mm
 Stack of 21

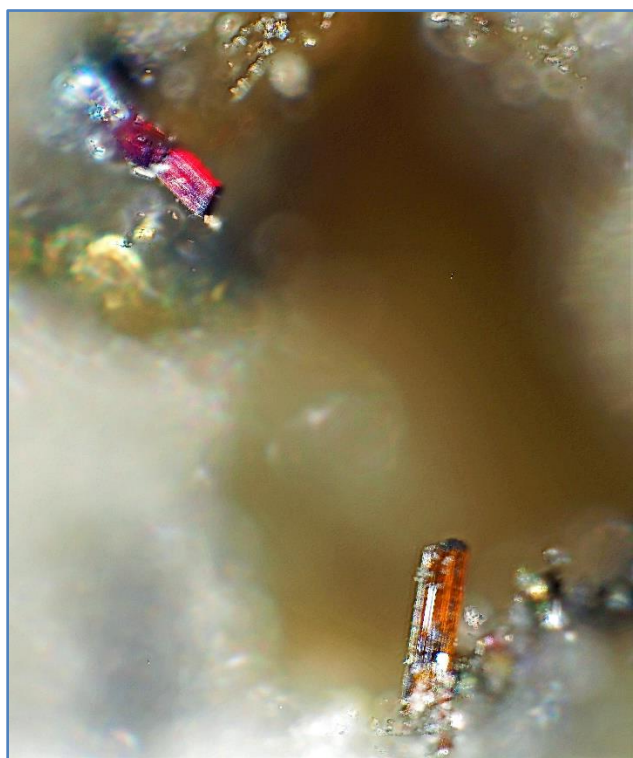



Pyrostitpnite

by Michael Pabst PhD, Treasurer

My last article concerned the silver antimony sulfide, Pyrargyrite. Pyrargyrite is a beautiful mineral, and we saw some photos showing its deep red color. There is a rarer polymorph of Pyrargyrite that is orange, Pyrostitpnite. Both minerals have the same chemical formula: Ag_3AsS_3 , but different crystallography. Pyrargyrite is trigonal $3/m$ ditrigonal pyramidal, whereas Pyrostitpnite is monoclinic $2/m$ prismatic, $\beta = 117.087^\circ$.

The first photo shows Pyrargyrite and Pyrostitpnite together in the same tiny pocket of a specimen from the Nabob Mine. These crystals are both similarly tiny, so you can see and compare the colors well.



Pyrostitpnite (orange) & **Pyrargyrite** (red), Nabob Mine, Larsen, Clear Creek County, CO. FOV 1.5 mm. Photo by Michael Pabst. (Pabst #109)

Here is a closeup of the same Pyrostitpnite crystal.



Pyrostitpnite, Nabob Mine, Larsen, Clear Creek County, CO. FOV 0.3 mm. Photo by Michael Pabst, using stereo microscope, stacking 9 images with CombineZP.

The next specimen of Pyrostitpnite and Pyrargyrite comes from Canada.



Pyrostitpnite on **Pyrargyrite**, Van Silver Claims, Whistler, British Columbia, Canada. FOV 1 mm. Photo by Michael Pabst, using stereo microscope, stacking 7 images. (Pabst #808)

Pyrostilpnite continued

There are magnificent photos of Pyrostilpnite on Mindat. Because my collection is limited in fine examples of Pyrostilpnite, and because my specimens are really tiny, you should click on the links below to properly appreciate this beautiful silver mineral. (Not to mention that these photos are the product of great photographers.) With this list, I have spared you the trouble of scrolling through 90 specimens on Mindat. To be fair, there are other good photos, but here are some of my favorites:

<https://www.mindat.org/photo-725141.html> (minID 2PA-QDH) from Le Rivet Quarry, Occitanie, France. Photo by JP Barral.

<https://www.mindat.org/photo-217330.html> (minID D3V-WGT) from St Andreasberg, Goslar District, Lower Saxony, Germany. Photo by Christian Rewitzer.

<https://www.mindat.org/photo-846981.html> (minID 3RK-YJA) from the Clara Mine, Wolfach, Baden-Württemberg, Germany. Photo by Michael Förch.

<https://www.mindat.org/photo-847100.html> (minID 9UM-D4M) from the Clara Mine. Photo by Michael Förch.

<https://www.mindat.org/photo-847193.html> (minID 0P6-W3N) from the Clara Mine. Photo by Michael Förch.

<https://www.mindat.org/photo-51760.html> (minID FF2-FTF) from the Van Silver Property, Brandywine Creek, Vancouver Mining Division, British Columbia. Photo by Ty Balacko.

Here below is one last photo, borrowed from Matthias Reinhardt on the German website, Mineral Atlas:

(I show the photo because I was unable to provide a direct link, but here is a link to the Pyrostilpnite page:)

<https://www.mineralatlas.eu/lexikon/index.php/BilderGeordnet?mineralid=3173>



Pyrostilpnite (orange) and Pyrrargyrite (red) from the Claus Friedrich Mine, St. Andreasberg, Goslar, Germany. FOV 1.5 mm. Photo by Matthias Reinhardt.

Pyrrargyrite and Pyrostilpnite are antimony-dominant silver minerals. They each form a series with corresponding arsenic-dominant silver minerals, Pyrrargyrite with Proustite and Pyrostilpnite with Xanthoconite. Proustite and Xanthoconite will be our next topics.

Minerals Talk Live: 1pm Wednesdays
Jordi Fabre, “Friends of Minerals Forum”
Barcelona, Spain on December 16, 2020 a recap
by Kathy Hrechka, editor

Each Wednesday at 1pm Bryan Swoboda, Blue Cap Productions in Honolulu, Hawaii has been moderating various mineral persons of interest on Zoom. On December 16 he featured Jordi Fabre from Barcelona, Spain. Jordi is the founder of Fabre Minerals, as well as creator of the website Friends of Minerals Forum, beginning on Aug 07, 2006.



A promotional poster for 'Mineral Talks Live'. It features a photo of Jordi Fabre on the right. On the left, there is a logo with two speech bubbles and a mineral specimen. The text reads: 'MINERAL TALKS LIVE', 'Jordi Fabre Founder; Fabre Minerals, Barcelona, Spain', 'Wednesday, December 16, 2020', '10A Los Angeles; 1P New York; 7P Paris'. At the bottom, it says 'Presented by: BlueCap productions MINERALOGICAL & GEOLOGICAL MUSEUM SMP' and 'Register at: http://go.mineraltalkslive.com/register'.

English speaking Friends of Mineral Forum
Users have posted a total of 58,022 messages.
Users have posted a total of 3,286 topics.
10,537 registered users
Images 90,960
Total forum views: 7,158,2473

Spanish speaking Friends of Mineral Forum
Users have posted a total of 147,879 messages.
Users have posted a total of 12,976 topics.
6,579 registered users
Images: 90,960
Total forum views: 146,551,285



www.Friendsofmineralsforum

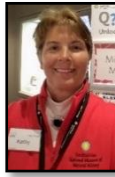
Screen shots by Kathy Hrechka

Happy Holidays! All lectures are complementary to our geology community through the following individuals: LtoR - Bryon Swoboda BCP, Jordi Fabre guest speaker, Dr. Rachel Alanzo Perez from the Mineralogical & Geological Museum at Harvard University, and Dr. Eloise-Gaillou, curator of the Mineralogy Museum Paris School of Mines in France representing the Society of Mineral Museum Professionals SMMP.

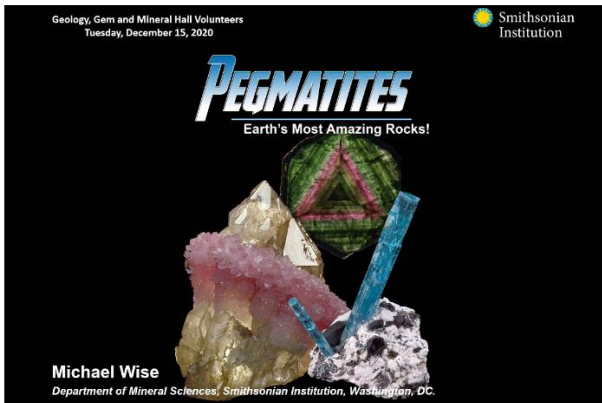
<http://go.mineraltalkslive.com>

Smithsonian's Dr. Mike A. Wise: Pegmatites - Earth's Most Amazing Rocks!

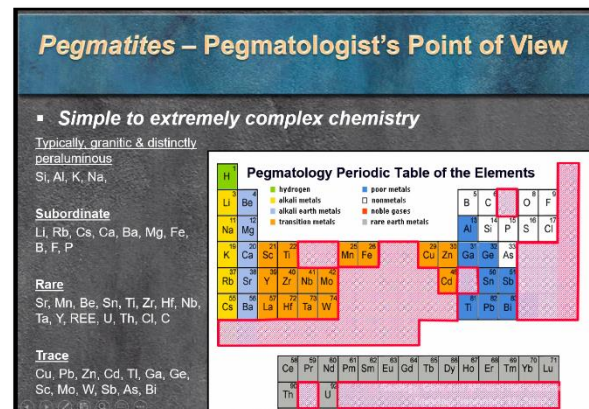
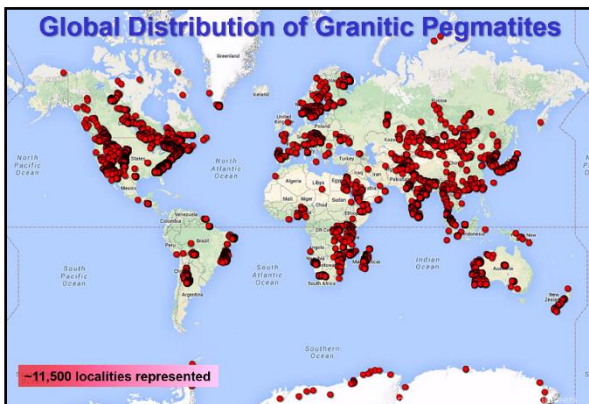
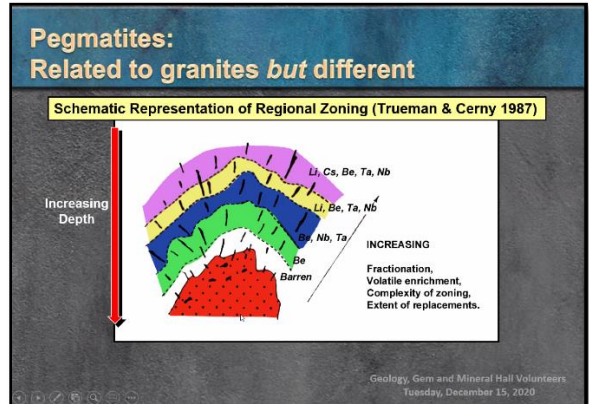
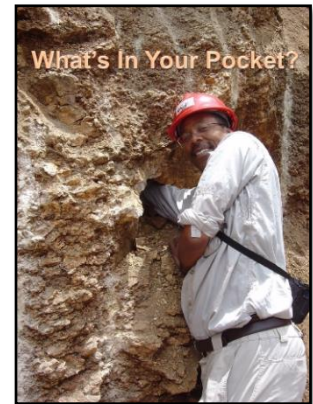
by Kathy Hrechka, Editor MNCA &
Natural History's GGM volunteer



Dr. Mike A. Wise gave an amazing presentation of his research in the department of mineral sciences at the Museum of Natural History to volunteers on Dec 15 via Zoom. His lecture featured a comprehensive understanding of pegmatites. While the museum remains closed, it was great to interact with Dr. Wise, through his program. We expressed our gratitude.



Above photo, Mike in his youth, researching





The authors of the Splendid Sands calendar state on their webpage that they are: “educators with scientific backgrounds and a curiosity for the natural world. We enjoy collecting sand, analyzing the bits within, and sharing our art and discoveries.



Dr. Von D. Mizell-Eula researches the sand from Johnson State Park, Dania Beach, Florida Photo by Leo Kenney

Offshore are sandy shallows and three reef systems at ~300 yards off, nearly half-mile, and over two miles out. Beach contents are mostly dredged material from Pleistocene sources offshore. Biogenic grains include forams, coralline algae, sandy worm tubes, barnacles, micromolluscs, and interesting button-like bryozoans Background grains are tiny quartz grains.

Adapted from the Wayne County Gem and Mineral Club News, Newark, NY January 2021
[Home - WCGMC.ORG](http://Home-WCGMC.ORG)
www.SplendidSands.com

My Favorite Beach Sand Discoveries

by Kathy Hrechka, Editor

It is hard to imagine getting bored at a beach, but that is what happens to me at times. I began to observe the sand. Even though I am not a sand collector, it is all geology. When I observe these sands under my microscope, I realize how each beach is unique. Some samples that intrigue me include Cancun, Juno Beach in Florida, Bermuda, and the Big Island of Hawaii.



Cancun beach in Mexico: The main chemical composition of sand particles was confirmed to be calcium carbonate. This sand feels like sifted flour.



Juno beach in Florida: The main chemical composition of sand particles turns out to be quartz. Cell phone photomicrography by Kathy Hrechka

continued next page

Beach Sand continued



Bermuda's Pink Sand Beach

The pink sand is made of red-shelled foraminifera, bits of coral, and crushed shell mixing with regular sand. Offshore Bermuda lies a coral reef, which thrives from the warm waters of the Gulf Stream.



Black Sand Beach, Hilo: Big Island of Hawaii

The famous "black sand" beaches of Hawaii were created virtually instantaneously by the violent interaction between hot lava and sea water. Olivine grains eroded from the lava.

"Current News on Scott Duresky's Rutherford Mine Research"

by Scott Duresky



With the recent identification of Oxystannomicrolite, joining Kenoplumbomicrolite as the second Microlite Group species currently known from only a single other worldwide pegmatite, Tony Nikischer of Excalibur Mineral has asked Scott and Michael Pabst of the MNCA to write an article about Scott's research for publication in Tony's *Mineral News* magazine.

Like the previously identified Kenoplumbomicrolite, Oxystannomicrolite has no Hydroxyl counterpart, so these EDS testing results may be considered as confirmed identifications.

Nb₂O₅ 6.64% by weight
SnO₂ 68.46% by weight
Fe₂O₃ 4.21% by weight
Ta₂O₅ 20.69% by weight

In addition, Scott has been successful in persuading a Richmond collector to donate the finest Cassiterite crystal ever found in Virginia to the Lora Robins Gallery from Nature and was recently given a suite of minerals collected in the late 1950's for inclusion in the Rutherford Mine Research Collection which he is assembling.

Over the next couple of months, Scott expects that he will have the opportunity to examine material that came from the core of the pegmatite. Since the 1950's material has only received a cursory examination, he would be incredibly surprised if something unusual did not turn up, and in those instances, will continue to work with Tony Nikischer at Excalibur Mineral for any EDS testing results that might be necessary.

Again, anyone who has material from the Rutherford Mine are encouraged to consider making donations of their own by contacting Scott.
Scott Duresky's phone (434) 882-3863

LORA ROBINS GALLERY of Design from Nature, University of Richmond, promotes an awareness and appreciation of nature.

Jennie Frances Smith

JULY 14, 1922 – DEC 18, 2020



by "Dignity Memorial", Houston, Texas

Jennie R. Smith passed away peacefully December 18, 2020 surrounded by family. A celebration of her life will take place in the Spring in Dixmont, Maine.

In lieu of flowers, the family suggests donations be made to Micromineralogists of the National Capital Area (MNCA) 270 Rachel Drive Penn Laird, VA 22846, or North Texas SNAP (Special Needs Assistance Partners) P.O. Box 3294 Grapevine TX 76099.

Born 7/14/22 in Clinton ME to Ralph and Fannie Runnels, one of five children. Jennie always wanted to be a teacher. Beginning with her childhood commitment to read every book in her small hometown library, Jennie was an avid reader consuming thousands of books in her lifetime. She attended Farmington State Teachers College where she earned her teaching degree. Jennie enjoyed teaching 3rd and 4th grades in Maine for several years. She married Paul E. Smith, living in Maine, South Dakota, 20 years in Park Forest, IL and 30 years in Fairfax, VA. They were married for 57 years and had two children, Woodrow and Paula. Jennie continued using her teaching and creative gifts through volunteering in children's community theater, leading a junior stamp club, as a 4-H leader, starting an Earth Science Club, teaching silversmithing, helping ESL students and much more.

Jennie and Paul were enthusiastic rock, mineral and fossil collectors belonging to and serving in leadership in several mineralogical societies on the east coast. With her substantial writing skills and love of minerals, Jennie wrote A Guide to Understanding Crystallography to help the layperson understand the complex study of crystals. She loved all her family, teaching others at every opportunity, new adventures, traveling, the Washington Redskins, NASCAR, and peanut M & M's. Jennie was a gracious, caring, and generous lady who was known for making everyone she spoke with respected, listened to and encouraged.

After her husband's death, Jennie moved to Dallas, TX to be near her daughter, son-in-law and Texas grandchildren and lived there for the last 15 years in an active Senior community until she moved to Hurst, TX this past fall to live with her daughter and family. She died peacefully at home December 18, 2020 surrounded by the love of family. She was preceded in death by her husband, Paul; parents, Ralph and Fannie Runnels; siblings, Gladys, Everett, Carlton and Hope; and granddaughter Amanda. She is survived by her son Woodrow A. Smith; daughter Paula Baker (Michael); grandson Michael D. Baker (Devynn); great grandchildren Grayson Baker, Emily Baker; grandson Daniel R. Baker; granddaughter Elizabeth "Lisa" N. Baker; granddaughter Jenna Boller-Smith; sister-in-law Irene Smith; nieces, nephews, grand nieces and nephews and friends.

Note: Micromineralogists of the National Capital Area club members remember Jennie being club president in 1978-79 and 1991-92. Jennie also taught crystallography from her book "Understanding Crystallography" which was a special publication of the Rochester Mineralogical Symposium in 1991.

Kathy Hrechka gives credit to Jennie for becoming a micromineral collector herself. In 1984 Kathy attended a local geology show, where people were viewing minerals under the microscope. It was Jennie & Paul, and Fred demonstrating micromounting, who invited Kathy to join a couple of local clubs, including the Micromineralogists of the National Capital Area. Kathy remembers carpooling with the Smiths to JMU for special geology workshops with Dr. Lance Kearns. Jennie was considered the educator, while creating slide shows for the club programs, archived by the Eastern Federation of Mineralogical Societies.

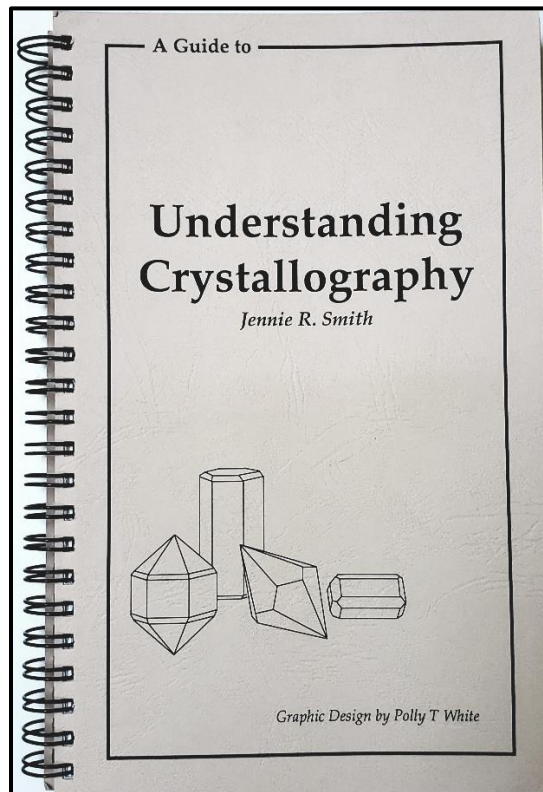
Micromineralogists of the National Capital Area, Inc.

Dave Hennessey remembers Jennie Smith fondly, not from MNCA for he was not yet a member when Jennie and Paul were active members, but from shared membership in other local clubs, the Gem and Mineral Hunters (now defunct Prince William County club) and the Northern Virginia Mineral Club. Jennie agreed to give a crystallography class to members in the Gem and Mineral Hunters club and for six Saturdays (one for each crystal system) eight gathered at a member's home where she taught them about axes of symmetry, mirror planes, Miller indices, etc.

Jennie taught Dave all he knew about crystallography, which was much less than all she knew about crystallography. He still has the Crystallography book which she authored and autographed for him with the wry comment "you know the unautographed copies are much rarer than the autographed copies". Dave values his autographed copy and uses it regularly. Dave recently shared an email with another former Gem and Mineral Hunter members, Diane Nesmeyer, who said it simply, "Another great one has moved on to the great collecting grounds in the sky". She said it exactly right. Jennie was one of the greats.

Kathy Hrechka along with many club members received micromineral holiday cards from the Smiths.

Understanding Crystallography: Jennie's book was dedicated to her husband Paul, and thanked Dr. Steve Chamberlain and the Rochester Mineralogical Symposium under whose auspices the volume was published. *photos courtesy Kathy Hrechka*



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.

2021 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.

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.

Rock&Gem



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

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: Zoom
January 2021**

6: Mineralogical Society of the District of Columbia - MSDC 7:30 Zoom
www.mineralogicalsocietyofdc.org

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

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

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

27: Micromineralogists of the National Capital Area, Inc. - MNCA 7:30pm Zoom
www.dcmicrominerals.org

April 10: Atlantic Micromounters' Conference will be held via Zoom. Details will be published on our club website. www.dcmicrominerals.org by Kathy Hrechka, Conference Chair

April 17: Rochester Mineralogical Symposium will be hosted via Zoom this year.





GeoWord of the Day and its definition:

Amazonian the youngest system of rocks and the period they represent in the geologic stratigraphy of the planet Mars. Named after Amazonis Planitia, a broad lowland area in the northern hemisphere of Mars which contains relatively smooth, moderately cratered plains that are among the youngest material units on Mars (Tanaka, 1986). See also: *Hesperian*; *Noachian*.

lindackerite (lin-dack'-er-ite) A light-green or apple-green triclinic mineral: $(Cu,Co)_5(AsO_4)_2(AsO_3OH)_2 \cdot 10H_2O$. It may contain a little nickel or cobalt.

lomonosovite (lo-mo-no'-sov-ite") A dark cinnamon-brown to black or rose-violet triclinic mineral: $Na_5Ti_2O_2(Si_2O_7)(PO_4)$. Cf: *murmanite*.

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



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.

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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

Inducted into Editor's Hall of Fame – 2018
AFMS Trophy 2019 Small bulletins



Newsletter inputs:

- *Dave MacLean
- *Michael Pabst
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