

MNCA Website dcmicrominerals.org
The Mineral Mite



Vol. 47 – No. 9 Washington D.C. – A Journal for Micromineralogists November 2014

Meeting: November 19 Time: 7:45 p.m. – 10 p.m.
Long Branch Nature Center, 625 S. Carlin Springs Rd. Arlington, VA 22204

Program: The Rhein Property of Amity, Orange Co., New York: an introduction to its geology, mining history, and mineralogy.

Presenter - David Fryauff, Vice President
Details on page 2

President's Message:

By: Dave MacLean

Thank you all who signed up to demonstrate micromineralogy at the NVMC show on November 22-23. Again we can demo what is often the little things that count. I continue to marvel at what one can see with a simple ten power loupe in bright light.



Continued on page 2



Photo of the Month

Hemimorphite ($Zn_4Si_2O_7(OH)_2 \cdot H_2O$) from Santa Eulalia, Chihuahua, Mexico. Field of view = 1 mm. In the June issue of *The Mineral Mite*, the Photo of the Month was of a crystal of Senegalite, which belongs to the orthorhombic pyramidal class $mm2$, where the top is different from the bottom. That article mentioned that Hemimorphite is a more familiar mineral with the same symmetry. Hemimorphite is certainly a more common mineral, but photos that clearly show the differing top and bottom are rare, because most crystals are attached at the base, obscuring the faces on the bottom. In other specimens, the crystal habit does not reveal the true symmetry. I noticed only one photo on Mindat (<http://www.mindat.org/min-1860.html>), and only one photo in the *Photo Atlas of Minerals*, that clearly show doubly-terminated crystals exhibiting hemimorphism. This picture from my collection provides one more example.

Photomicrographer, Michael Pabst.

Program: Rhein Property of Amnity Orange Co., New York

By David Fryauff, Vice President

The Rhein Property of Amity, Town of Warwick, Orange County, NY is a distinct locality listing in Mindat that came about in 2010. The property owner, Glenn Rhein, is a residential housing contractor who invested in a parcel of rural acreage. Shortly into his initial excavations for housing constructions, Glenn started to turn up boulders with unusually large, distinct, free-standing crystals. After discovering a number of these boulders, Glenn contacted the New York State geologist and started to learn more about his find. As described on his page in Mindat, the rock he had discovered on his property was an extension of the Franklin (NJ) marble, and the crystals were mineral species typical of this marble. Large, well-formed crystals of spinel, titanite, tremolite, magnesiohastingsite, meionite, diopside, phlogopite, and others had developed at or near a contact zone in the Franklin marble and a silicate lithology enclosed within this marble.

Glenn Rhein has been very supportive of exploratory mineralogy on his property, and to date 33 valid mineral species have been identified with numerous specimens provided to academic institutions for study. He started a blog on Mindat that captured the attention of mineralogists and collectors from around the world, and his amazing finds have triggered a very sudden, interest and passion for mineral collecting. Glenn is unique, and surprising in sharing his mineral bounty with others....however, with the caveat that all specimens found by invitation not be sold commercially.

The county of Orange, NY, within which Glenn's property sits, has long been an important mining area and is known to host a large, and distinct variety of minerals with 98 valid species identified; six of which are type locality minerals. I have had the good fortune to meet Glenn and have enjoyed collecting minerals with him on his property a number of times over the past year. My talk and slide show will endeavor to shed light on the interesting geology and mining history of this small area, and will showcase some of the minerals found there with photos and actual self-collected specimens.

President's Message continued

By Dave MacLean, President

I noticed some micro photos of insects, rotifers and other small life in the Washington Post this last Monday 11-03 or Tuesday 11-04. It reminds me of the reaction some of us get when an insect crawls out of one of our vugs or we see remains of fungi or insect eggs.

About 20 years ago a man who collected old 17th and 18th century microscopes and related items showed me a tiny chest of drawers from the Netherlands. In the 1820's this boy or young man obtained insects, seeds, minerals etc. from his father who went to the East Indies for business. The small objects were in hollow ivory rings 0.5cm diameter with a clear top and bottom, glass?. He arranged these items in 0.5cm wide wood trays in specific order. Each item was described in a notebook and coded by tray and specific position in the tray. One could put the tray or specific item therein under the microscope and look at it.

I would like to remind all of us that 2015 DUES are DUE, only \$15. Our dues cover only half of our annual costs. Please get your dues to Michael ASAP and remind other to do so.



Happy 94th Birthday! Cynthia Payne

Cynthia Payne and Dave MacLean celebrated her 94th birthday at the home of Ed and Sue Fisher during the mineral auction of Cynthia's collection. Her actual birthday is Oct. 21.

Photo Courtesy of Ti Merideth

Micromineralogists of the National Capital Area, Inc.

Previous Meeting Minutes: 10/22/14

By: George Reimherr, Secretary

President Dave MacLean opened the meeting at 7:55 p.m. Ten members were present. The minutes for the previous meeting on 9/24/14 were approved as printed in the Mineral Mite, though there was one change that happened after that meeting -- namely, that the date for our annual James Madison University trip is now scheduled for February 14, 2015. There was no treasurer's report.

Old business -- We still need volunteers to demonstrate micromounting on Sunday afternoon, November 23, 2014, at the Northern Virginia mineral club show.

New business -- David Fryauff mentioned the possibility of a field trip to the Big Savage Mountain, MD, site that has produced barite on iridescent siderite.

Miscellaneous -- Several members discussed their recent mineral related activities: David Fryauff spoke about the field trip on October 14, to the Cornwall, PA dumps; Kathy spoke about her gold panning experience at the Rocky Run Creek site, Goldvein, VA; Various members discussed the events at the Desautels Micromount Symposium, which they attended on October 11, 2014. Ended 8:33 pm.



Previous Program Reviewed 10/22/14

By: George Reimherr, Secretary

The program for the evening was a talk by David Fryauff on the topic "Sterling Hill Mines, Ogdensburg, New Jersey 2014 'Super Digg.'"



Franklinite:
 $Zn^{2+}Fe^{3+}_2O_4$



Willemite
 Zn_2SiO_4

Franklin Mining District, Sussex Co., NJ

- Started in mid 1739 as one of America's first iron mines.
- Smelting problems due to Zn content, est. at 20%, with low Pb
- Subsequent needs & uses for Zn made the Franklin & Sterling Mines famous.
- Hand cobbing of the highest grade Zn ore led to the recognition of many other important mineral species..."The Picking Table"
- Approx 11 million tons of high grade Zn ore was sent by rail to Palmerston, PA where abundant local coal fueled the Zn smelters.
- Mindat currently lists 361 valid mineral species & 71 type locality mineral species.
- The Sterling Hill Museum lists 28 unique mineral species that have been found nowhere else on earth (ie. Chlorophoenicite, Hardystonite, Hendricksite, etc.)
- 89 of the mineral species demonstrate fluorescence; more than any other site in the world, making Franklin NJ the "Fluorescent Mineral Capitol of the World"
- The mineral deposits at Franklin & Sterling Hill constitute a "geological enigma" and have spawned >1,000 scientific papers over two centuries.
- Initially hemimorphite, and later Franklinite, Willemite, and Zincite were the ore minerals sought for Zn production by the surface & underground mines.
- Franklin mine closed in 1954 and Sterling Mine closed in 1986.

Sincosite

By Michael Pabst

Last month, we saw that the vanadyl ion ($V^{+4}O$)²⁺, which has vanadium in the +4 oxidation state, gives the intense blue color to Cavansite and Pentagonite, as well as to the “Tanzanite” variety of Zoisite. (In the future, we will look at the vanadate ion ($V^{+5}O_4$)³⁻, where the +5 oxidation state for vanadium tends to confer a yellow or orange or red color.) One of the interesting properties of the vanadyl ion is that it can substitute for the uranyl ion ($U^{+6}O_2$)²⁺ in the composition of minerals.



If you look at the pictures below, you might think that you are seeing an ordinary specimen of Torbernite. But the Geiger counter is silent, or more accurately, there are no counts above background. There is no radioactivity in the specimen. This is a specimen of Sincosite, a calcium vanadyl phosphate, $Ca(VO)_2(PO_4)_2 \cdot 5H_2O$. Like Torbernite, copper uranyl phosphate, $Cu(UO_2)_2(PO_4)_2 \cdot 12H_2O$, Sincosite is in the tetragonal crystal system (ditetragonal dipyramidal, $4/mmm$), so the two minerals are easily confused visually. Both look like typical “uranium micas”. Unlike Torbernite, Sincosite does not contain copper as an essential component, so the green color must come from vanadium. However, I would not exclude the possibility of some substitution of Ca with Cu in Sincosite. Autunite, $Ca(UO_2)_2(PO_4)_2 \cdot 11H_2O$, which contains calcium like Sincosite, is said to be more greenish when fresh, turning yellow with exposure.



Sincosite, $Ca(VO)_2(PO_4)_2 \cdot 5H_2O$, Ross Hannibal Mine, Lawrence Co, South Dakota. Three views from a single specimen. Field of view is 2-3 mm for all. The overall specimen is 13 mm x 7 mm.



Some of the best Sincosite specimens come from the Ross Hannibal Mine in South Dakota. There is a good description of this locality and of collecting Sincosite in the *Mineralogical Record*, in an article with a number of good pictures [Loomis TA (1999) The Ross Hannibal Mine, Lawrence County, South Dakota *Mineralogical Record*: 30(3): 199-206]. For 100 years, until 1985, Sincosite from the Ross Hannibal Mine was thought to be Torbernite [Zolensky ME (1985) New data on sincosite *American Mineralogist* 70: 409-410]. Turn to p. 5

Sincosite continued

But there is no Torbernite at the Ross Hannibal Mine (www.mindat.org/msg-105-239938.html). Sincosite was reported as a new mineral from Sincos, Pasco Department, Peru in 1922. However, Sincosite was actually first found at the Ross Hannibal mine, and the Ross Hannibal Mine should have been the type locality, but no one realized that the green crystals were not Torbernite!

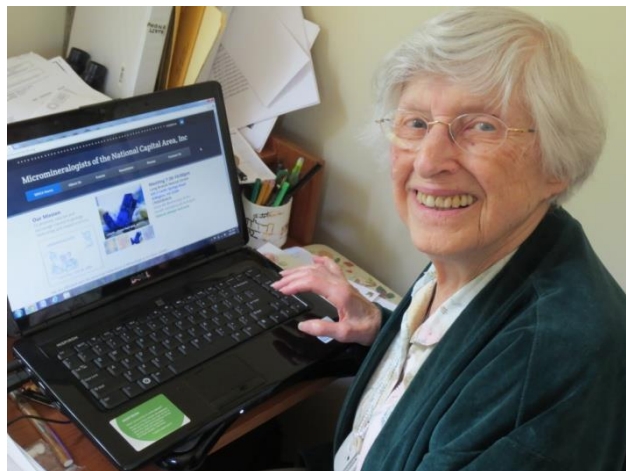
It is hard to believe that from 1885 to 1985 no one noticed the absence of radioactivity in the so-called "Torbernite". There are no uranium minerals at all at the Ross Hannibal Mine. In other words, there is no radioactivity present at this locality, so it is not a situation of another mineral emitting radioactivity and making the Sincosite look radioactive. The lesson here is that, if you have a Geiger counter, use it. Test everything that looks like a uranium mineral, because you might find a surprise. Perhaps the broader lesson is to save every label, but do not necessarily believe what the labels says.

Photomicrography by Michael Pabst

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Cynthia Payne, our only charter member since 1967 is demonstrating our new club website.

www.dcmicrominerals.org



Check out her article "Founding and Early Years of the Micromineralogist of the National Capital Area" which can be found on the "about us" tab.

Dr. Carl A. Rilling Inducted into the Paul Desautel's Micromount Hall of Fame: Baltimore Mineral Society

By Kathy Hrechka

The late Dr. Carl Rilling (deceased 1970) represented by his son, Dr. David Rilling, was inducted into the "Micromounter's Hall of Fame" on October 11th at the 58th Annual Paul Desautels Micromount Symposium hosted by the Baltimore Mineral Society.

Master of ceremonies, Quintin Wight congratulated Dr. David Rilling on behalf of his late father, Dr. Carl A. Rilling. Carl was a very active member of the Leidy Microscopic Society in Philadelphia. In 1962 Carl developed techniques for obtaining three dimensional, 3D slides of foraminifera and minerals.



Figure 1 L to R Quintin Wight & Dr. David Rilling

The Plaque Reads: Micromounters Hall of Fame Dr. Carl A. Rilling

Dr. Carl A. Rilling was a family physician by profession and a micromounter by preference. A member and past president of the Pennsylvania Mineralogical Society and a member of the Leidy Microscopical Society, he was one of the greats of the hobby in the mid-twentieth century, joining other luminaries such as Paul and Hilde Seel, Paul Desautels, Bill Hunt, Bill Yost, and Neal Yedlin when micromounting was rising to a peak of interest and popularity.

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Dr. Rilling was an excellent field collector and maker of micromounts, but he made his greatest impact in his associated hobby of photomicrography. In an era just coming to grips with the capabilities of modern cameras he designed and developed his own equipment and techniques for the production not only of superb photomicrographs, but of the three dimensional photography of microminerals.

He applied this technology not only to his own collection, but also to that of the Leidy Microscopical Society and of many of his colleagues. He created beautiful stereo photomicrographs of more than 550 specimens of the famous Frank J. Keely micromount collection.

One of his prime interests was in teaching micromounting to others and promoting the hobby. To that end he created a collection of slides covering the process he used and developed an entire presentation that he gave to interested audiences. His stereo 3D presentations of mineral photomicrographs were welcome at many venues. His slides and equipment still exist.

As a collector, teacher, and pioneer in the field of three-dimensional photomicrography of mineral specimens, Dr. Carl A. Rilling has earned his place in the Micromounter's Hall of Fame.



Son, Dr. David Rilling shares; “My dad was a family physician. He was born in Philadelphia in 1910 and received his medical degree from Hahnemann Medical College in 1935. We lived in Crescentville in northeast Philadelphia. Besides his busy medical practice my dad had many hobbies and interests. He had always been interested in nature and science and eventually this interest led to collecting and studying minerals. He became an active member of the Pennsylvania Mineralogical Society and at one time served as its president. He developed a passionate interest in micromineralogy and joined the Leidy Microscopical Society.

My dad became a passionate micromounter. Outside of his professional and family life his main interest was in micromounting - Leidy Society meetings, collecting trips, giving lectures and demonstrations, and sharing material with his micromount friends from all over the country. He was well-known throughout the micromounting community. He also had a deep lifelong interest in photography, both still and motion picture. Stereo 3-D was becoming quite popular in the 1950s and 60s and he loved the new technology.

His most important contribution to the field of micromineralogy was made when he combined his two passions of photography and micromounting. He developed techniques which enabled him to create and produce 3-D 35 mm. stereo slides. He invented clever adaptations of the cameras to the binocular microscope. Through this process a permanent 3-dimensional record of each specimen could be created and preserved. He was the first to apply this technology to the field of micromineralogy, thus adding an entirely new facet to the field.



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Son, Dr. David Rilling shares, continued

He photographed more than 550 specimens from the Leidy Society's F.J. Keeley Collection. He also photographed specimens of many of his Leidy Society micromounting colleagues as well as a large collection of his own micromounts.

My dad created a series of 40 stereo slides showing and describing the many steps involved in producing a micromount which includes photos of some of his micromount friends - Paul Seel, Bill Yost and others. He also became interested in the study of Foraminifera, made a collection of slides and photographed these as well in 3-D. He created Viewmaster discs of microminerals which can be viewed in 3-D.

He even made some cardboard stereoscopic micromineral 'slides' to be viewed on the antique stereoscopes. He constructed a very clever micromineral diorama - a large lighted box where you can look through 8 different stereo eyepieces and view the micromineral in 3-D. The actual specimen is on a pedestal and what you are viewing is a stereo slide of that exact piece!

In 1962 he wrote a short paper titled 'MICROSCOPIC MINERALOGY' describing the hobby in detail with its many benefits and in June of that year he presented an illustrated lecture and demonstration titled 'Stereo microphotography for the Hobbyist and Mineralogist' to the Philadelphia Mineralogical Society at the Robert Morris hotel. My dad died in 1970. He was 59 years old."



John Ebner, NJ and Dr. Dave Rilling, PA



David presented a 3D slide show of minerals from his father's and the Keeley collections. Turn to page 8

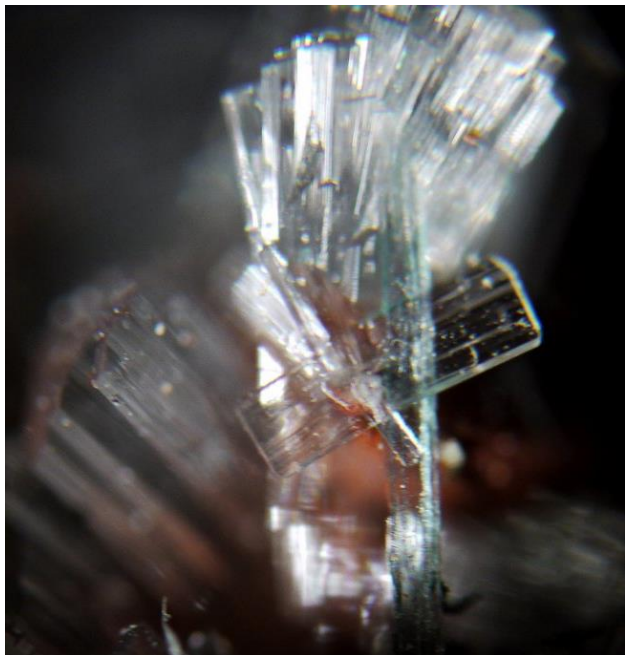


**Dr. Carl A. Rilling
Inducted into the Paul Desautel's
Micromount Hall of Fame: Baltimore
Mineral Society continued**

The conference included plenty of time for talking, trading, selecting minerals from the freebie table, silent auction, voice auction, dealers and looking at the exhibits. MNCA club members in attendance included Dave MacLean, David Fryauff, George Reimherr, Kathy Hrechka, Michael & Karen Pabst, Cynthia Payne, Mike Seeds, and the Steve & Carolyn Weinberger.

Note: Steve and Carolyn Weinberger were also inducted in the Micromounter Hall of Fame. They were featured in the October, 2014 edition of *The Mineral Mite*; Volume 47 no. 9.

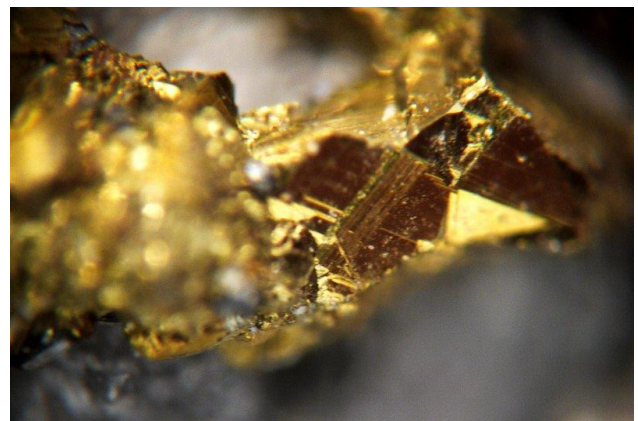
Photos courtesy of Hillar Ives & Kathy Hrechka



**Physicist Conference Attendee
Hillar Ives's, demonstrates his photo
set-up and photomicrography**

By Hillar Ives

The inverted microscope "concoction" with the camera, telephoto lens, and microscope objective, looking down, which you see in the foreground of one photo, is of my making. It covers fields between 3 and 7 millimeters, which extends what one would get with a 1:1 macro and also some bellows use, but less magnification than a full blown microscope (not counting stereo macro-scopes).



Colorado Rambling

By George Loud

September 4 of this year, Tom Tucker and I flew out to Denver. How two adults could be on opposite sides of the same empty luggage carousel and take so long to locate each other remains something of a mystery. Our destination was the “Ouray-Silverton San Juan Mountains Mineral Symposium,” in Ouray, Colorado, sponsored by the Colorado Chapter of FM, the Colorado School of Mines Geology Museum, and the Friends of the Colorado School of Mines Geology Museum.



Figure 2 Tom Tucker, George Loud, Fred Schaefermeyer at Fred & Muriel's residence, Wheat Ridge, Colorado

After picking up our rental car we drove to Wheat Ridge for a brief visit with our good friend **Fred Schaefermeyer** and then on to Ouray. Because we took the scenic route through Leadville, we were late checking in at Western Hotel in Ouray, described on its web site as “an authentic old west hotel and saloon.” Built in 1891, it hasn't had many up-grades since that date. In passing through Climax we were surprised to find the Climax molybdenum mine apparently back in operation.

On Friday, while taking many photographs, we visited the sites of the Camp Bird, Revenue, Idarado, and other mines. I also photographed several tramways. Tom assured me that he would recognize the site of the Camp Bird mine which yielded a

fortune to Tom Walsh and financed purchase of the Hope diamond. See *Father Struck it Rich* by Evalyn Walsh McLean. However, driving up the old road built by Otto Mears, we missed the Camp Bird because the mill was gone. Since Tom's last visit, the Camp Bird Mill had been disassembled and shipped to Mongolia where it has been reassembled. We found the Camp Bird site on our trip back down the mountain and took photos of the several beautiful Victorian office buildings which remain standing. The old Otto Mears road also took us by the Revenue mine which is once again in operation.

Friday afternoon we drove to Silverton and took CO 110 toward Animas Forks. The drive on 110 took us through the “ghost towns” of Howardsville and Eureka and past the remains (foundations) of the Sunnyside Mill. The guide books told us that a high clearance, 4-wheel drive vehicle is required for travel to Animas Forks on 110, but Tom and I are both from Missouri and required convincing the hard way. At one point a fella in a four-wheeler travelling in the opposite direction yelled “you guys sure are brave.” “Stupid” would have been more accurate than “brave.” We never did make it to Animas Forks but, incredibly, we came close.

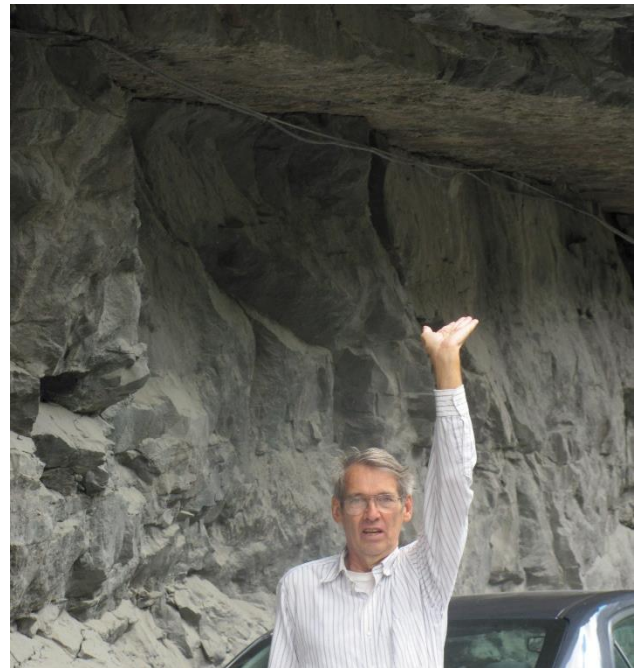


Figure 2 Tom holding up a rock overhanging the road that accesses the Camp Bird Mine and the Revenue Mine

Colorado Rambling continued

By George Loud

On the way back to Ouray we visited the Hillside Cemetery overlooking Silverton, there located the grave of the iconic mineral dealer Ed McDole, and collected drill cores from the parking lot of the now closed Idarado Mine office complex. In sum, we had a very full day yet made it back to Ouray in time for the Friday evening opening lecture of the symposium, *Mountains of Silver: A History of the Red Mountain Mining District* by P. David Smith.

Early Saturday morning, my brother Jim drove over the divide from his home in Creede, Colorado to join us for a full day of lectures and a banquet dinner. The three of us shared the “Honeymoon suite” at the Western Hotel the next two nights. The lectures were great but perhaps the high point on Saturday was a visit to view the incredible collection of Benjy Kuehling. Many of Benjy’s specimens are pictured in Lithographie #15 *The San Juan Triangle of Colorado: Mountains of Minerals*, which also has a brief bio of Benjy (p. 42).

A variety of guided collecting trips were offered by the Symposium on Sunday, the 7th. Jim, Tom and I elected to go on the Red Mountain trip led by the team of Don Paulson (historian) and Robert Larson (mine geologist). The combination of a historian and a geologist was a brilliant idea from the symposium organizers and, in practice, made Sunday as enjoyable a day as I have ever had collecting.

We collected enargite, pyrite and other micros at the Longfellow, National Belle and Guston mines. We also visited several other mines, including the Yankee Girl, but found nothing of interest. At the National Belle, I found a heavy hunk of ore which Mr. Larsen identified as “argentite” (acanthite); however, while not yet tested, I suspect that it is a fine-grained, argentiferous galena. Jim and Tom found interesting small octahedral pyrites at the Guston mine. The only negative on Saturday was that my brother’s 4-wheel drive pickup really only has room for two adults. “Room” for a third (yours truly) was behind the two front seats in the cab. I never did figure out the best way to enter and exit, feet first or head first! I only wish I had photos of my less than graceful exits. We returned to Ouray sufficiently early to visit the Ouray

County Historical Museum which had minerals on display donated by John H. Marshall, Jr. (1931-2008; of Dedham and, later, Westport, MA.).

On Monday, after breakfast, Tom and I said farewell to my brother and drove to Denver with stops for malts at the DQs and a purchase at the Rock Hut in Leadville. I stayed Monday and Tuesday nights at the Ramada where Marty Zinn had his satellite show which had very light traffic during the brief time I was there. On Tuesday, Tom and I first visited the new Fine Minerals show, from which we departed with eyes glazed over by 5 figure prices, then visited Dave Bunk’s warehouse sale. I flew home on Wednesday, while Tom stayed through Saturday and was able to see something of the main show where he met our good friend Barbara Sky. He prevailed upon her to drive home some of his purchases.

We met old friends, made new friends, saw great minerals, improved our knowledge of mining history, and had a great time.

Figure 3 Yankee Girl mine on Red Mountain which we visited on Sunday September 7



Colorado Rambling continued

By George Loud



Figure 4 Victorian office building; Circa 1902 at the Camp Bird Mine site



Figure 6 One shelf of Benjy Kuehling's collection of Rhodocrosite



Figure 5 L to R - George Loud, Benjy Kuehling, & Tom



Figure 7 Tom Tucker at the Yankee Girl Mine

Photos Courtesy of George Loud

Micromineralogists of the National Capital Area, Inc.



American Federation of
Mineralogical Societies

(AFMS)
www.amfed.org

**American Federation Mineralogical
Societies Show
October 23-25, 2015 Austin, Texas**

Baltimore Mineral Society Micromounter's Hall of Fame

In 1976, the Baltimore Mineral Society founded the Micromounter's Hall of Fame as a way to recognize one honor these individuals and those who subsequently made outstanding contributions to the hobby of micromounting and the field of mineralogy in general. Two members are inducted into the HOF each year during the annual Paul Desautels Micromounter's Symposium held in Baltimore in October. As of this writing, seventy individuals have been recognized. The 2014 inductees are Dr. Carl A. Rilling and Steve and Carolyn Weinberger. You can view qualifying details, as well as the complete list at www.baltimoremineralsociety.org.



*Left to Right; Master of ceremonies, Quintin Wight,
Carolyn and Steve Weinberger*



Eastern Federation of
Mineralogical and
Lapidary Societies

(EFMLS)
www.amfed.org/efmls

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

Geology Events:

November:

**19: MNCA Meeting - The
Rhein Property of Amity,
Orange Co., New York: an
introduction to its geology,
mining history, and mineralogy.**

Presenter - David Fryauff, Vice President MNCA

**22-23: Northern Virginia Mineral Club's 23rd
Annual Mineral Show;** George Mason University;
Braddock Road & Route 123, Fairfax, VA;
Saturday 10am-6pm, & Sunday 10am-4pm.

MNCA Micromounter Demonstrators:

Saturday, Nov. 22 10-12 Kathy Hrechka.

12-2 David MacLean 2-6 David Fryauff

Sunday, Nov. 23 10-12 Bob Cook

12-4 Logan Babcock All Day - Eric Grundel

**24: NVMC Meeting - The "Chicken from Hell" and
the Last American Dinosaurs, Presented by Dr. Hans
Sues, Smithsonian Paleontologist**

February 14: JMU Dr. Kearns trip 9am-3pm

Atlantic Micromounters' Conference

April 10 - 11, 2015

Details are posted on our club website:

Tab Events - Conference

www.dcmicrominerals.org



**Mark your calendar:
Eastern Federation Mineralogical Society
Show & Convention, March 27-29, 2015
in Hickory, North Carolina**

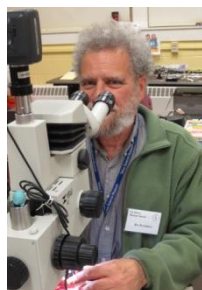
Micromineralogists of the National Capital Area, Inc.



42st Annual Atlantic Micromounters' Conference April 10 – 11, 2015

Presented by
The Micromineralogists of the National Capital Area, Inc.

The Micromineralogists of the National Capital Area, Inc. invite you to attend our annual Atlantic Micromounters' Conference on April 10 – 11, 2015



Our featured speaker will be Robert Rothenberg from Oneonta, New York. Robert has collected micros since 1964, and has been a photomicrographer for the past ten years.

2015 Special recognition goes to Barbara Sky, and our solo charter member, Cynthia Payne.

Location: Springhill Suites by Marriott, Alexandria.
6065 Richmond Hwy, Alexandria, VA 22303 Phone
(571) 481-4441

Conference Chair: Kathy Hrechka
kshrechka@msn.com

Details are posted on our club website:
Tab Events - Conference
www.dcmicrominerals.org

Micromineralogists of the National Capital Area

Meeting: The 4th Wed. of each month 7:30 -10 p.m.
Long Branch Nature Center, (Except Easter & Dec.)
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, fryauffd@yahoo.com
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The society is a member of:

* Eastern Federation of Mineralogical and Lapidary Societies

(EFMLS) www.amfed.org/efmls

* American Federation of Mineralogical Societies (AFMS) www.amfed.org affiliation

Dues are Due: MNCA Membership Dues for 2015
\$15 (single) or \$20 (family)

Payable to MNCA - Michael Pabst, Treasurer
270 Rachel Drive
Penn Laird, VA 22846



Editor's Notes: by Kathy Hrechka

Send your articles and photos to your editor.

Club Article Deadline is 10th of each month.
The Mineral Mite will be emailed on 15th.
No newsletter July/August



AFMS Editor's Award First Place 2011 - Mini Bulletins

November Articles:

- *Hillar Ives
- *Michael Pabst
- *George Loud
- *Dr. Dave Rilling
- *David Fryauff

