



PNWFM NEWSLETTER

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President's Message

Greetings, mineral lovers, fall is nearly here and that means one big thing in PNWFM: The Symposium is coming! And that dovetails nicely into this season's topic:

Member Participation: Symposium Edition

Those of you who read my newsletter articles will have seen a theme emerging. I really want to encourage everyone to be involved whether you are new or existing members. I'm not saying that nobody does anything; far from it. Part of the reason I accepted the nomination as president is that I see how committed and passionate the membership is about FM and our activities. But, there are a few areas of the symposium which we could use some more... Participation!

There is no better opportunity to get more involved in PNWFM than to come to the symposium and take part in the various activities we have planned. To kick it up a notch, volunteer to help out with some of the tasks that still need to be staffed.



PNWFM Contacts

Bruce Kelley
President
bruce.kelley@gmail.com

Gary Hinderman
Vice President, Pro Tem
gkmhind@comcast.net

Karen Hinderman
Secretary
gkmhind@comcast.net

Linda Smith
Treasurer
vanegas3@comcast.net

George Gerhold
Symposium Chairman
ggerholds@comcast.net

Jim Etzwiler
Webmaster
kd7bat@arrl.net

Beth Heesacker
Newsletter Editor
heesacker@coho.net

Participate in this year's Symposium

Enter a specimen in the self-collected contests

I think many of you don't realize that we have a yearly contest for the best self-collected specimens, given how sparse the entries have been the past few years. Or, maybe like me, you have been intimidated by the high level of competition. Whatever the reason, now would be a good chance to step up with a favorite piece that you have field collected. There are three categories: 1) Colorado specimen on display, 2) Micro specimen from anywhere, and 3) Macro specimen from anywhere. See Bob Meyer's article on page 9 for the details, but give it a try. I'm going to enter at least one category this year.

Give the Mineral ID Contest a try

We have for years also held a Mineral ID contest as part of the symposium. True, there will be some hardball tricky specimens, but you may be surprised at how many

you can figure out with a bit of observation and thought. I don't know if I've ever seen a winner with 100% correct answers, so don't walk away if you cannot identify them all.

Display some of your collection

The heart of a mineral show is always the display cases. Everyone looks at them, studies them... even drools over them! But, it is always difficult to get the cases filled. I know that many of us display at our local rock shows, me included. Why do we step back at PNWFM? I can only speak for myself here, and it comes back to being intimidated by the high quality of cases I've seen at the symposium. Not everyone will have museum quality displays, but most of us are all capable of putting something interesting in a case and presenting it in an attractive manner. If you don't think anyone would be interested in your collection, I can assure you that is incorrect. Remember that even the owners of the very best collections started out modest, so we can all appreciate the best that you have to offer no matter what level. And, if you don't display because you've just never been asked: *We're asking!* I will be displaying part of my Blue Mineral collection here for the first time this year. Very little of it is "Colorado", but I've been assured that being on-topic is *not* a requirement. Why not join me? You will find display case dimensions and instructions later in the newsletter. Contact Bob Meyer at pyrite111@hotmail.com if you would like to help us make it a show!

Sell some of those extra specimens as a Room Dealer

To see the North hallway after hours, you would think room dealers are the main activity for the symposium, and in some ways this is true. It is where most of the social activity happens; stories are told, deals are made, beers are consumed, better and worse deals are transacted. We can accommodate more room dealers so if you have a closet full of rocks or drawers full of specimens that no longer fit your collection well, consider signing up as a room dealer. It's got to be a whole lot more fun than selling on eBay!

Buy some new specimens from our Floor Dealers, Room Dealers or Auctions.

It wouldn't be a mineral show if you couldn't acquire new specimens for your collection. Our floor and room dealers are happy to oblige. Probably 25% of the best specimens in my own collection have come from our symposium dealers.

Some of the best deals are found in the silent auctions and the Saturday night's live banquet auction. All proceeds from the auctions go to support PNWFM, so bid generously! (And, if you want to help out, donate some nice items. PNWFM thanks you in advance!)

Come Friday night for our 40th anniversary reception

We also decided to do something a little different on Friday night this year. We will have an informal reception with cake in the Alder Room to celebrate the 40th anniversary of PNWFM. (This is the room that has housed our fluorescent displays the past few years). Come in and say hello!

Send in some photos for the Alder Room slide show.

During the reception and throughout the symposium, we will have a slide show running in the Alder Room. Mineral photos, pictures from field trips – historic and recent, symposium speakers, photos of show cases, anything related to our activities as mineral collectors and members of PNWFM. Here's where YOU come in (besides eating cake, that is): Email me (bruce.kelley@gmail.com) your photos to be included in the slide show. JPG format is preferred, although if you give me enough lead time, I can scan slides. Don't be shy: I will choose 20 or so pictures of my own to put in and encourage everyone to do the same. If we can get 400 pictures, that's

about 45 minutes of unique pictures at 7 seconds each.

Help guide the future of PNWFM by attending the business meeting

Groan! Yes, there DOES have to be a business meeting Sunday morning, but we will try to keep it flowing and on track. These meetings are where we decide the topics for future symposia and this is the place to make your ideas heard.

Wait, aren't there some speakers?

Oh yes, we have four experts in the Minerals of Colorado lined up to present their knowledge. Mark Jacobson, Ed Raines, Dan Kile and Don Earnest will give seven talks ranging from the famous pegmatites to the Idarado Mine to silver from Leadville and a two session overview of Colorado collecting. A huge thanks to Allan Young for once again setting up such a high quality slate of speakers. These talks are not to be missed!

If you haven't signed up for the symposium yet, now is the time to do it!

Yes, go send in your registration as soon as possible and get that early discount. After October 1, it goes up from \$65 to \$80. The registration form is attached to this newsletter. While you're at it, invite your mineral friends.

Volunteer Opportunities

Our biggest need for volunteers involves the display cases:

- Help move and transport the display cases on Friday

- Assemble the cases after they arrive on Friday

- Disassemble the cases when the show ends Sunday at 11:30 am

- Help transport the cases back to their storage (site TBD)

We can also use some help at the Welcome/Registration table.

There is always a need for volunteers to help out with the live auctions, running items around the room.

Contact Bruce Kelley (bruce.kelley@gmail.com) if you can help.

Member Participation: Even more ways to get involved!

Write an article or send in a few photos for the newsletter. Going to a show? Send us a trip report! Find a weird fuzzy green mineral you'd like to share? Send us a photo whether you can positively identify it or not; I think mysteries are as fun as scholarly certainty. Thanks to Wes Gannaway, Beth Heesacker, Karen Hinderman, Al Liebetrau, Bob Meyer, Don Newsome, Lanny Ream, Alexander Schauss, and myself for providing newsletter content so far this year.

Add *Minerals of Colorado* to your calendar for October 10-12, 2014. While you're at it, plan to attend our 2015-2017 symposia:

- October 9-11, 2015: *Northeast USA and Fluorescent Minerals*

- October 14-16, 2016

- October 13-15, 2017

"Like" our official Facebook page: [facebook.com/PNWFM](https://www.facebook.com/PNWFM)

Visit the Rice NW Museum of Rocks and Minerals in Hillsboro, OR. PNWFM members get free admission and store discounts.

Send me ideas for how PNWFM can better serve you and the mineral collecting community.

Until next year.

The Pacific Northwest Chapter of the Friends of Mineralogy 40th Annual Symposium and Mineral Show

October 10-12, 2014

Red Lion Inn, Kelso, Washington

Show Theme: Minerals of Colorado

-- Featured Speakers --

Mark Jacobson

Pegmatites of Colorado – A Survey of Localities; (ii) The Mount Antero Mineral Locality

Ed Raines

Creede – A Caldera Full of Silver; (ii) The Leadville Silver Boom

Dan Kile: Collecting Colorado I & II

Don Earnest: Crystal Collecting at the Idarado Mine

-- Main Floor Dealers --

Cascade Scepters: Joe George

Lehigh Minerals: Jim and Yolanda McEwen

Pacific Rim Gem & Minerals: John Meek

XTAL: Dennis Beals

The Main Floor will feature a number of world-class mineral displays,
including a display from the Rice Northwest Museum of Rocks and Minerals

Room Dealers will be selling minerals from Pacific Northwest and
worldwide locations in the North Hallway adjacent to the Main Floor

Free Admission to the Main Floor and Room Deal-

For pre-registration information or other inquiries, please contact:

Symposium Chairperson—Bruce Kelley (bruce.kelley@gmail.com)

Dealers—Al Liebetrau (liebetrauam@msn.com)

Exhibits—Bob Meyer (pyrite111@hotmail.com)

Speaker Program—Allan Young (allanyoung@msn.com)

Auctions—Karen and Gary Hinderman (gkmhind@comcast.net)

Contests—Bob Meyer (pyrite111@hotmail.com)

Room reservations should be made directly with the Red Lion Inn at 360-636-4400.

Identify yourself as being with the PNWFM for a special rate.



Pacific NW Chapter Friends of Mineralogy

40th Annual Symposium & Mineral Show

Minerals of Colorado

October 10-12, 2014

Red Lion Hotel, Kelso, Washington

SHOW HIGHLIGHTS

Main Floor Dealers – Lehigh Minerals, Xtal, Pacific Rim Gem & Mineral, Cascade Scepters.

Satellite Dealers – Located in first floor rooms in north wing of hotel. Dealers must be registered symposium attendee. Contact Al Liebetrau at liebetrauam@msn.com.

Exhibits – Fine mineral exhibits can be seen in the Main Floor area. Display cases provided by FM. Contact Bob Meyer at pyrite111@hotmail.com.

Auctions – Silent auction ongoing during show hours and live auction during Saturday night banquet. Donations for both auctions needed. Contact Karen or Gary Hinderman at gkrmhind@comcast.net.

Contests – Mineral ID contest for individuals and best self-collected specimens (macro and micro). Entry forms available at registration desk.

Guest Speakers – Seven excellent talks on the show theme are scheduled for Saturday and Sunday. See lecture schedule and bios on reverse side.

OTHER INFORMATION

Main Floor Security – Badges provided for dealers and exhibitor at check-in. Only badge-wearing individuals allowed on floor during set-up, take-down, and off-hours.

Meals – Breakfast buffet and dinner service only available at hotel. Deli lunch provided at hotel to attendees with lunch ticket.

ROOM RESERVATIONS

Attendees should make reservations directly with hotel at **360-636-4400**. Identify yourself as being with the PNWFM for a special rate of \$86 + tax per night, double occupancy, by September 11. Hotel does not permit over-nighting in the parking lot.

REGISTRATION FORM

PLEASE COMPLETE BOTH SIDES

**DETACH FORM AND MAIL WITH
YOUR CHECK**

**EARLY REGISTRATION ENDS
OCTOBER 1, 2014**

Names: _____

Address: _____

City: _____

State/Zip: _____

Phone: _____

E-mail: _____

**Please pay your dues with this
registration**

Mail dues and completed registration form to:

**Bruce Kelley
15791 Bear Creek Pkwy, Apt. A542
Redmond, WA 98052-1519**

REGISTRATION FORM

PLEASE COMPLETE BOTH SIDES

General Registration (Includes Saturday's banquet dinner)

Before October 1st:

\$65 x _____ registrants = \$ _____

After October 1st:

\$80 x _____ registrants = \$ _____

Saturday Deli Lunch Buffet (Not included in General Registration)

\$15 x _____ attendees = \$ _____

Additional Banquet Tickets (For those not registered for Symposium)

\$28 x _____ attendees = \$ _____

Payment of 2015 dues*

\$15 x _____ members = \$ _____

TOTAL ENCLOSED \$ _____

*Please pay your dues for the FY ending June 2015 with this form if you have not paid since 7/1/14. Only current members may register for Symposium. We cannot accept dues for previous or future years. Mail dues and completed registration form to:

Bruce Kelley
15791 Bear Creek Pkwy, Apt. A542
Redmond, WA 98052-1519

SCHEDULE

FRIDAY

12:00 am **DEALER & EXHIBITOR SET-UP**

5:00 pm **MAIN FLOOR OPENS**

10:00 pm **MAIN FLOOR CLOSES**

SATURDAY

8:00 am **MAIN FLOOR OPENS**

8:30 am *Opening Remarks*

Bruce Kelley and Julian Gray

8:40 am *Pegmatites of Colorado – A Survey of Localities*

Mark Jacobson

BREAK

9:30 am

9:45 am **Crystal Collecting at the Idarado Mine**

Don Earnest

BREAK

10:35 am

10:50 am *The Leadville Silver Boom*

Ed Raines

11:40 am **MORNING SESSION ENDS**

12:00 pm **FM BUFFET LUNCH**

1:30 pm *Collecting Colorado I*

Dan Kile

2:20 pm

2:35 pm

Collecting Colorado II

Dan Kile

3:25 pm

6:00 pm

10:00 pm

**AFTERNOON SESSION ENDS
BANQUET AND LIVE AUCTION
MAIN FLOOR CLOSES**

SUNDAY

8:00 am **MAIN FLOOR OPENS**

8:00 am **FM BUSINESS MEETING**

9:30 am *Creede – A Caldera Full of Silver*

Ed Raines

10:20 am **BREAK**

10:35 am *The Mount Antero Mineral Locality*

Mark Jacobson

11:25 am *Closing Remarks*

Bruce Kelley

11:30 am **SYMPOSIUM CLOSES**

GUEST SPEAKERS

Mark Jacobson is a retired geophysicist for Chevron Corporation and is currently president of the Colorado Chapter of Friends of Mineralogy. Since his high school days on Long Island, he has been interested in pegmatite mineralogy and geology and holds degrees in mineralogy and geology from Penn State and UC-Berkeley, respectively. In 1993, he authored the book, *Antero Aquamarines*, and has written many articles for various mineralogical magazines.

Ed Raines is a geologist, mineralogist, and mining historian. He presently serves as Collections Manager for the Colorado School of Mines Geology Museum. He is currently president of the Mining History Association, and is active in organizing their annual conferences. He is a past president of the Colorado Chapter of Friends of Mineralogy, and has written numerous papers on the geology, mineralogy, and mining history of many Colorado mining districts.

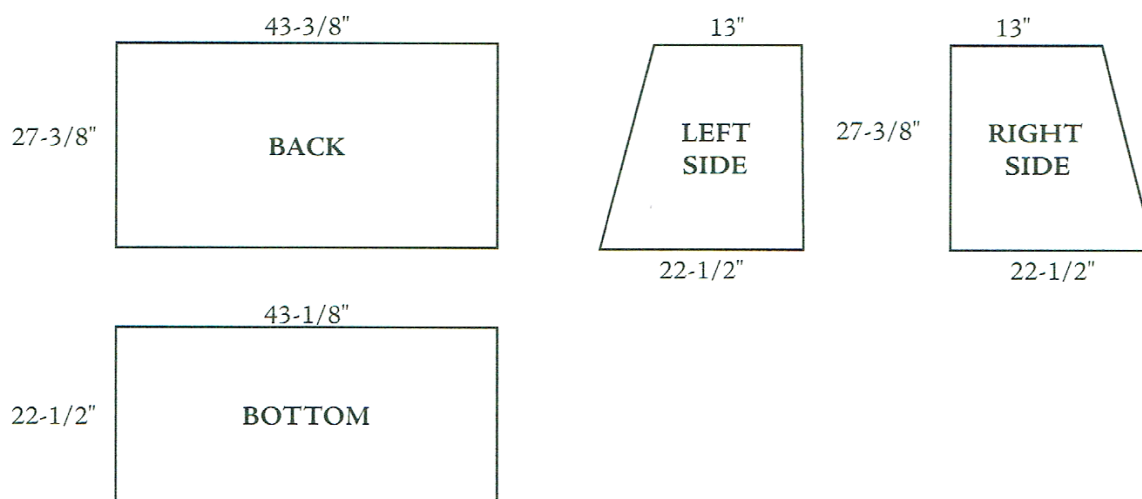
Dan Kile and his wife Dianne have been collecting minerals for more than 42 years. He has an interest in the topographical mineralogy of Colorado, the mineralogy and geological formation of noteworthy occurrences, and historical optical mineralogy, and has authored numerous articles in magazines and professional journals. He is presently Scientist Emeritus with the U.S. Geological Survey and Adjunct Faculty at the Hooke College of Applied Sciences in Illinois.

Don Earnest received his geology degree from The Ohio State University in 1973 and soon after took a job at the Idarado mine in Colorado. He has since held geology and management positions at mines in New Mexico, Nevada, Utah, Idaho and Montana, as well as served as a geological consultant for various U.S. companies. He collects minerals from mostly U.S. localities, and presently heads Resource Evaluation Inc., a consulting firm based in Tucson.



Pacific Northwest Friends of Mineralogy Show Cases

- Case Design:** The display cases provided have a glass front with solid wood sides, back, and floor. Two light bulb sockets with incandescent bulbs and an exhaust fan are attached to the top section.
- Lighting:** All exhibitors will be limited to 150 watts of electricity per case. We have daylight balanced incandescent floods available.
- Care of cases:** It is the responsibility of the exhibitor to take proper care of the case. Do not use staples or tacks to fasten a liner to the walls of our wooden cases. *Because of recent damage to some of our new liners use of double-sided tape, mineral tack (or similar), and glue is not allowed.* Clean the inside of the glass with a lint-free cloth before requesting your case to be closed. This is critical if you have dark liners.
- Showmanship:** Liners, risers or platforms are recommended, which greatly add to the attractiveness of many displays. Labels should be neat and legible. *Please note that text or photos more than 18" above the floor of the exhibit may not be easily visible to the adult viewer.*
- Measurements:** All measurements listed below are **LINER DIMENSIONS**. Please note: the cases are handmade; there will be slight variations in size. Your liners should fit snugly against each other in the back and sides. Don't be too concerned if your back or side liners are a little shorter than the inside of the case. That area will not be visible to the viewers.



Typically, cardboard or plastic sign material $\frac{1}{8}"$ or $\frac{1}{4}"$ thick is used. The back liner fits in first, then the two sides (they will hold the back in place), and finally the bottom, which holds the bottom edges of the sides and back. Allow for the thickness of your liner and fabric.

More Symposium News !

CALL FOR DISPLAYS

If you are interested in displaying your minerals at the symposium, please contact acting Display Chair Bob Meyer. This year we have fewer than typical displays booked, so this is your chance to contribute and let other members see some of your collection.

AND Don't Forget the Auctions

By Karen and Gary Hinderman

Gary and I will be back again hosting silent auctions Friday evening, all day Saturday and Sunday morning. Also, as usual, I will be managing the live auction. We won't be in attendance this year so I will be looking for a volunteer to be my co-auctioneer. We also need a few individuals to assist during the live auction with bringing the specimens around the room for the final look.

This is just a gentle reminder to bring specimens to donate for the live auction and the silent auctions. Consider a live auction donation worth \$30 and up. Anything less than this will probably be used at the silent auction. Most importantly, bring your checkbooks and open wallets. Your generosity during the live auction is what keeps our club treasury in the black.

Remember this is our 40th Anniversary Celebration

Special celebration in the Alder Room on Friday night.

See the President's message for what, when, where and for special requests for this event.

SEE YOU THERE !!!

Contests at the 2014 Symposium

By Bob Meyer, contest coordinator

We will have four contests this year: 1) Best Colorado Specimen on Display, 2) Best Self Collected Macro Specimen, 3) Best Self Collected Micro Specimen, and 4) the Mineral ID Contest.

The first award is in recognition of this year's Symposium theme, simply the best Colorado specimen on display.

The idea of the self collected specimen contest is in line with the PNWFM mission, which in essence is to promote mineral collecting. The contest recognizes the **best** efforts of symposium attendees in the realm of field collecting. We actively welcome and encourage people from across the globe to attend. The contests are designed to be inclusive of all attendees and their mineral collecting areas.

Awards for the best self-collected specimen will be presented in two categories, 1) the best self-collected macro specimen, and 2) the best self-collected micro specimen. Registered symposium attendees can enter a limit of one specimen in each category. The **specimen(s) should be self-collected in a non-commercial manner**. Non-commercial refers to the scale of the collecting activity rather than as to whether the collector sells minerals. Ask yourself as to whether the scope of the collecting activities would constitute an unfair advantage over other entrants, and if the answer is "no," then feel free to enter. For those who want to know, **a macro specimen is one that is best appreciated without magnification**, while **a micro specimen is one that is best appreciated with magnification**. Otherwise, there is no size limitation as to entries. To be clear, a micro specimen might be quite large (should be able to fit underneath a scope); while a macro specimens could potentially be quite small (such as a thumbnail). **Entries should be plainly and neatly labeled as to species, location, and collection date. The label should not contain the collector's name or other identifying information.** Please drop your specimens off at the registration desk, where a record of the entrant and specimens will be kept. All entries are due no later than 1:00 p.m. on Saturday.

The winners of both the Best Colorado Specimen on Display Contest and the Self-Collected Specimen contests will be decided by a panel of judges, with the prizes for both contests being awarded before the Saturday evening banquet. What constitutes the "best" specimen will be ultimately up to the judges, but will include such characteristics as esthetics, freedom from damage, relativity of quality in comparison to other examples of the same species or from the same locality, and rarity. Rarity refers not to rarity of species, because a quartz or other common species might potentially win, but to how rare similar examples might be.

Those wishing to compete in the mineral ID contest will complete an entry form containing spaces to fill in the identity and locality of a group of subject specimens. Points will be awarded for completeness of the information, **including locales**. No destructive tests on the subject specimens will be allowed, and **each entry must be the work of one registered attendee**. The forms will be available at the registration desk, and will be due no later than 3:45 p.m. on Saturday, directly after the end of the program. I encourage all of you to accept this challenge. Winners of this contest in the past have included some of our most well known and knowledgeable collectors, and joining this group is a real honor.



Honey, I Shrank the Minerals

**WA Pass 2014,
by Ed Marchand**

As a new comer to the chapter, Washington Pass, and the world of micros, I was excited to see what the buzz was about and also to help in giving back to the community. Arriving early on Friday the Camp Host placed me over in a far section of the campground, intending for all of the FM group to be on that side. Klipchuck is a nice campground, nestled in the trees well off the highway so no road noise, only the pleasant hint of rustling water from Early Winters Creek. Shortly after I had my tent set up Randy Becker showed up and gave me directions to the area of interest and what to look for when I got there. He was looking for another FM early arrival so I went on ahead of them.

The area is a narrow band along Highway 20 east of Washington Pass. In my yet untrained view, it was just a group of granite rocks strewn above and below the highway. However, my directions were to look for pock marks or openings in the rocks, for that is where the micro-crystals of minerals were to be found. In the 30 minutes or so until Randy arrived I had collected a 5 gallon bucket of material - I was pumped. Then I found out that the dimples were not the openings of interest and the real prizes were the fresher cut material that did not have iron staining on visible crystals. Yes, I had collected a load of leaver-ite! Although some of it still made it home. :-) The three of us went on to explore a mud flow from 2013 to see what new materials were unearthed.

Back at the site the campground was filling in, some FM members some not. We ended up being spread out so interactions were not as easy as they evidently had been in the past. The weather was great, evenings were cool for sleeping, but not cold enough to make the mornings uncomfortable. In the morning we met up with the Ranger who assigned us our work detail - cleaning up the trail that went from the campground to the river and out to the highway along a four mile trek. We only had a section to work and a couple of hours later it looked great.

The cleanup crew



Afterwards we packed up and headed back to the road section. For me it was to venture down hill this time. Armed with better trained eyes I found a couple of nice specimens. The hard part was getting them back up to the roadway (I did not bring a crack hammer to assist in making the clumps smaller and my chisels were not working on the granite).



**Barry and Randy
getting an early start**

Back at the campground there was supposed to be an informal potluck dinner, however with us spread out so much it did not materialize (that I know of). I did get to spend some time with Bruce Kelly as he sat at his site cracking bigger chunks into smaller ones looking for elusive openings. He found a nice one with fine green blades, almost like grass. Unfortunately I have not memorized all the "-ites" and forgot what it was called. (Sorry Bruce) I did learn to identify the Arfvedsonite in the granite though. After hours we went back to the site looking for the elusive Zektzerite as it fluoresces under a short wave UV lamp. Specs were in the main host and stretched along the same area of Highway 20. I found a few small pieces. My best finding was one already in the van - one of my large clumps from down the hill had a nice section on it. Two for one! In the AM some of the group headed up to the talus under Liberty Bell at the pass, but I headed home. Another will have to tell that tale...

Our fearless leader





Paul with his find

The working slope



**Where to go?
What to do?
Or is it just the menu for dinner?**



Working the slope.



Photos by Don Newsome

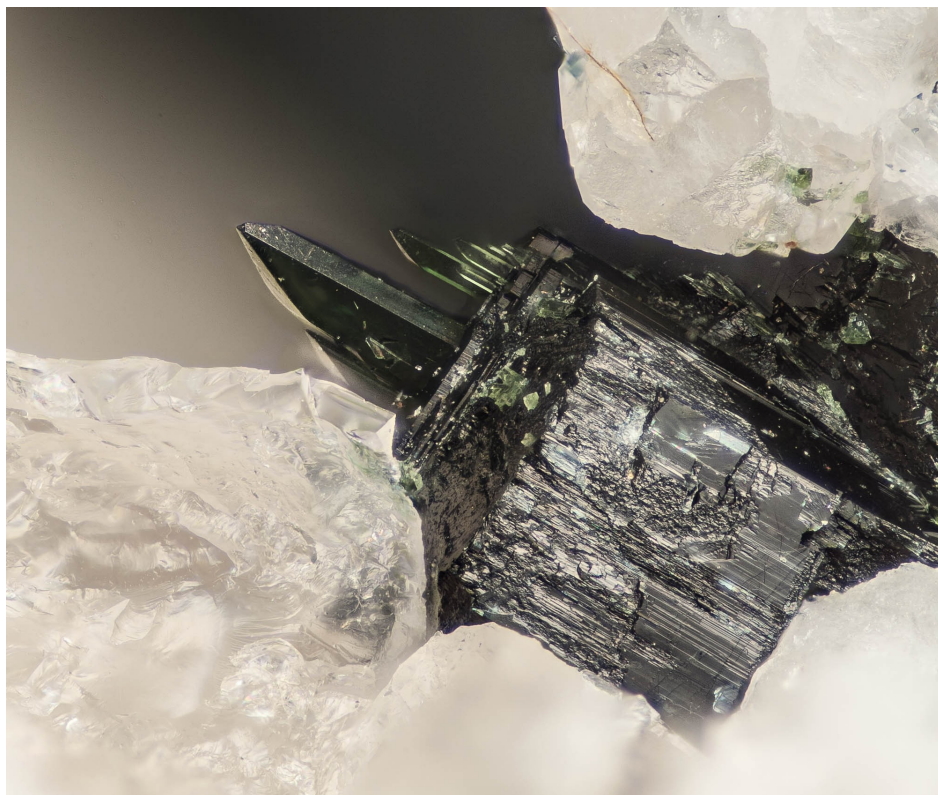
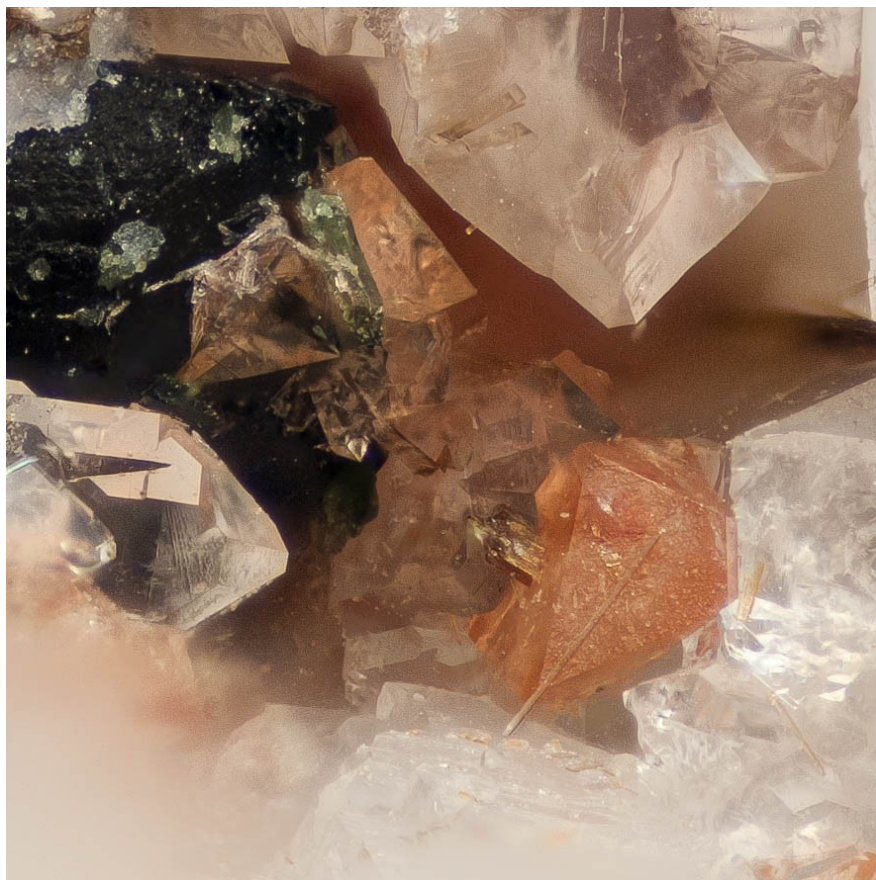
Recent Microphotos

From Washington Pass

by Bruce Kelley

Several gemmy salmon-pink zircon crystals, and a black arfvedonite crystal in a quartz-lined pocket. Found near Milepost 166.

Field of view: 0.75 x 0.75 mm, Stacking: 369 frames at 4 μm .



A small vug containing several dark green aegerine crystals (to .45 mm) growing epitaxially on a black arfvedonite crystal. Found near Milepost 166.

Field of view: 1.69 x 1.43 mm, Stacking: 369 frames at 4 μm .



**GREEN MONSTER MOUNTAIN
PRINCE OF WALES ISLAND,
ALASKA
EPIDOTE LOCALITY UPDATE
By DOUG TOLAND
SUMMER, 2014**

Most mineral localities are ephemeral. A road cut exposes a pocket or two of fine crystals then it's done, worked out, grown over, often fading from memory. Or a mine operation exposes a vuggy zone, and a few brave miners risk bringing out specimens before the mining ceases.

Copper Mountain, taken from the trail to the summit of Green Monster. In the center is Lake Josephine, a mile and a third long and quite deep.



Not so with the Green Monster deposit. Not yet, anyway. As part of an extensive, semi-circular contact metamorphic assemblage bordering a dioritic pluton that involves nearby Copper Mountain, this deposit has produced world class epidote and quartz specimens since Ed Over's and Arthur Montgomery's famous 1935 expedition. A fellow who knew where crystals had been found during earlier mining days led Montgomery and Over to the site. The original discovery of the crystals may extend back even further, perhaps over a century. Green Monster claims encompassing around 290 acres were staked in 1897 and patented in 1903. Copper and gold were the original prizes, but the crystals ultimately became the focus of economic value and international attention.

I came upon the scene in 1967 as a member of a three-man Smithsonian-sponsored expedition. Ten years pass and the claims owner, Eskil Anderson, granted me lease rights, along with Clayton Rasmussen of Anchorage. Lee Myers of Wrangell leased the claims for at least 12 years prior. In 1980, after Clay died in an auto accident the previous winter, I entered into a purchase agreement with a new partner, Tom Hanna of Juneau. Since then, Tom and I have owned and systematically worked the claims right up through this summer's season. And we will

continue to work the property until we can no longer crawl up the mountain's steep slopes, or until all the accessible crystals have been found.



Although the crystal producing area is small relative to the entire property, both Tom and I doubt that all the epidote and quartz crystals will ever be found. The mountain's remoteness, frequently foul weather, steep slopes, tough rock, biting flies and short summer season have even discouraged us at times. This past June, my wife, Mary, and I scheduled six days for the mountain. We ended up hunkered down in Ketchikan for five days waiting on the weather. One of those days, June 22, saw a rainfall record for the date, - five and one-half inches. Setting a rainfall record at a locale where 12 and one-half FEET of rain fall annually was remarkable, but our indeterminate wait was typical.

Mary never did make it to the mountain with me this year, but Tom did. We spent the end of June and part of July digging, chipping and chiseling mostly on the lower workings. Tom

chipped into a decent pocket down there the previous summer. That pocket was some ten feet beyond and several feet down from where previous pay pockets had been found. It yielded several rather large and bright groups of epidote and quartz crystals up to three inches.

The discovery extended our area of focus and expanded our understanding of where pockets may still lurk. Applying our newfound knowledge to this year's efforts, we chiseled into an unusually large pocket along a fault and shear zone that transects the area. It was in the high-wall, so we had to use a ladder to gain access, making the work more tedious.



Unfortunately, for many centuries this massive pocket had been severely mistreated by abusive tectonic activity and near-surface weathering before we broke into it. I now know what dentists must think when they work on a dirty mouth full of bad teeth! Nearly every group had been destroyed, and most of the surviving crystals came out broken, embedded in and encrusted with a gritty plaque. All were coated with a sticky dark brown organic mud. I even called Wards Scientific to see if they might buy the showier pieces of chowdered epidote for classrooms. And the pocket was perhaps the grimmest we've ever had to work in. Literally work in, because we opened a hole some four feet high, five feet wide, and some eight feet straight back! At least one of us at a time could crawl in and work out of the rain and bugs!

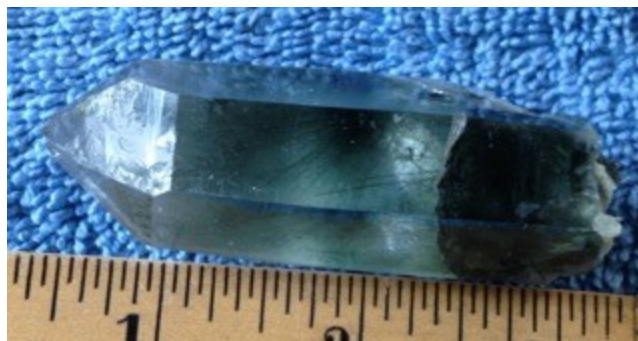
For most of the time, the weather on the mountain this summer was typical. On our day of departure, Tom and I stared into dense fog right up to about a half-hour before our scheduled helicopter pick-up. In August, when I returned with another friend, Jim Hayden, we had to wait in town a day before the skies lifted. And once on site, half of our days were rainy. But that meant only half of our days were buggy. One must look at such conditions optimistically!

I also took note of a paucity of snow. By late June, there was **none** on Green Monster. I have only seen one other snowless end of June there, in 2005. And by the end of August, only one small patch of firm snow remained on Copper Mountain. Around 1900, that patch was mapped as a small glacier. I have never seen Copper Mountain so devoid of snow.

Access to Green Monster is expensive. The helicopter typically costs nearly \$2,000 for a round trip. It remains to be seen if we can recover our costs this year by selling the handful of viable epidote singles and doubly terminated quartz. The epidote habit is beautiful, - almost identical to that of beryl. I'm not sure which axis elongated to produce this habit, but all the crystals with this shape are twinned. And our morale got a boost when we found garden-like sprays of actinolite (byssolite) inclusions in a few of the clearer quartz. Interestingly, the bottom workings have produced just about every epidote habit except the elongated and parallel-twinned epidote that have come from Austria and Pakistan. Most collectors only know about Green Monster's blocky or tabular twins that came out in 1935 and in several of the years since then. Just as interestingly, we have only found quartz twins in the middle and upper workings.

We didn't make it back to the mountain this September. That's often when the bugs subside, but it's also when the autumnal storms intensify. Maybe next year. Tom and I plan to extend our range still further in the lower workings. Hopefully we'll find another big pocket, - one with lustrous, undamaged clusters of epidote and quartz. And we hope we won't have to sit on the dock by the channel waiting and waiting on the weather.

Epidote and Quartz found at Green Monster.





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Editor, Beth Heesacker
4145 NW Heesacker Rd.
Forest Grove, OR 97116

PNWFM CALENDAR

**40th Annual Symposium, Minerals of Colorado —
October 10-12, 2014
Kelso, WA**

**Micro-Mineral Study Group — Nov 1, 2014, 9-4
Fire Station Meeting Room
2930 SE Oak Grove Boulevard
Milwaukie, Oregon**

**41st Annual Symposium, Northeast USA and
Fluorescent Minerals —
October 9-10, 2015
Kelso, WA**



PNWFM NEWSLETTER ADDENDUM

Julian Gray New Executive Director of Rice Northwest Museum of Rocks and Minerals Leslie Moclock Assumes Curator Position

By Bill Dameron



Julian Gray, Executive Director
and Barb Epstien

Leslie Moclock, Curator,
and Alex Bridges



Julian Gray has been selected as the new Executive Director of the Rice Northwest Museum of Rocks and Minerals; Leslie Moclock has been chosen as the new curator. Both assumed their positions at the museum in May. Julian was formerly curator at the Tellus Science Museum in Cartersville, Georgia, just outside of Atlanta. Leslie recently received her master's degree in geology from University of California, Davis.

The museum, located just outside of Portland Oregon in Hillsboro, has a long and close association with the Pacific Northwest Chapter of Friends of Mineralogy (PNWFM). Richard L. Rice and Helen M. Rice began it as a private museum in 1952, and their daughter Sharleen made it a nonprofit 501(c)3 corporation in 1997. Sharleen is a charter member and former president of PNWFM. Chapter members loan specimens for display, and contribute specimens, money and time. The chapter is a group member of the museum, entitling members to free entry and other benefits. The museum hosts PNWFM events and is an important exhibitor at its annual October Symposium, now in its 40th year. Its first full-time curator was PNWFM charter member and zeolite expert Rudy Tschernich. When he retired Lara O'Dwyer Brown became curator and also acted as Executive Director in 2013-2014. Lara is moving to Denmark because of her husband's work and will be sorely missed. Julian worked on the expansion of the Weinmann Mineral Museum from 2005, helping to turn it into the Tellus Science Museum in 2009. He earned his Bachelor of Science from Georgia State University in 1981 and his Master of Science in geology from the same school in 1998. Leslie has worked on and off in museums since she was an undergraduate at Amherst College, where she graduated in 2009 with a degree in geology. Recently she worked at [Oregon Museum of Science and Industry](#).

Julian is a long-time member of Friends of Mineralogy and past president of the national organization. He and his wife, Barb Epstien, are excited to be in the Pacific Northwest, fulfilling a dream they have had for some time. Leslie's husband Alex Bridges is a doctor in residency at Oregon Health Sciences University and both are relative newcomers to Portland.