



# PNWFM NEWSLETTER

## Inside this issue:

<b>Tucson Case Winners</b>	<b>1</b>
<b>PNWFM Meeting 5/19</b>	<b>1</b>
<b>Presidents Message</b>	<b>2</b>
<b>Your Voice in National</b>	<b>3</b>
<b>Proposed ByLaws</b>	<b>4</b>
<b>Symposium Speakers</b>	<b>9</b>
<b>Heson Mine</b>	<b>10</b>
<b>Micro Mineral Collector</b>	<b>11</b>
<b>Elsie Boggs</b>	<b>17</b>
<b>Mineral Market</b>	<b>18</b>
<b>Calendar</b>	<b>19</b>

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## TUCSON 2012



Above - Alex Carrington receives the best case by a novice award from Les Presmyck at the Tucson show.

Left-Al and Sue Liebetrau win the big one, Best Case in Show.

Photos by Gail Spann

PNWFM Chapter members were visible everywhere at the Tucson Gem and Mineral Show this past February. Some serve in helping to put on the show. Several had cases or individual minerals on display. Bob Meyer gave a presentation on Tiger minerals during the Art Roe Micro-mount Symposium. Dave Waisman is the show promoter for the Westward Look show. A number of others are dealers at various venues. The National FM Board meeting included seven members of the local FM. Local members were all over the main show, the motel shows, the parties, everywhere one went. Tucson is definitely a place to feel home away from home. See you there next year. More on the show later in this issue.

## PNWFM Business Meeting, May 19th at the Seattle Mineral Market

The Pacific Northwest Chapter of Friends of Mineralogy will hold a general membership business meeting at 4pm on May 19th at the Seattle Mineral Market in Lake City Washington. Show information can be found later in this issue. This is a very enjoyable one day show that attracts collectors from all over the Pacific Northwest.

One major item on the agenda will be a discussion and vote on changes to the By-laws proposed by the special committee. It is hoped these changes will better reflect the current operation of the club and how it functions. The full detailed changes are presented later in this issue. If you are not able to attend this business meeting to vote on this matter, you may vote to accept or not accept the changes as presented in this newsletter by e-mail or regular mail to Secretary, Karen Hinderman before May 19th.

## PRESIDENT'S MESSAGE - Bob Meyer

Greetings, fellow mineral enthusiasts.

*Spring is upon us, a time of renewal and hope.*

I don't know about you, but to me it seems like we are finally awakening from a long, dark winter here in the Northwest. It still seems a bit unreal that in a few months it might actually be a thing called "hot." For now, in any case, it is nice to see some sun.

As with the weather, things have been fairly quiescent so far as PNWFM goes since the last time I wrote. Tucson occurred, and was exceptionally enjoyable. Some of our members displayed at the show, and as you will read elsewhere in this issue, PNWFM members brought home the brass in the way of winning awards for competitive displays. Congratulations to Alex Carrington and Al and Sue Liebetrau!



The bylaws committee, consisting of Bill Dameron, Ray Lasmanis, and John Lindell met and has submitted a draft revision of the bylaws for the consideration of the membership. Please read the draft elsewhere in the newsletter. We will be considering this draft at our next general meeting at the Seattle Mineral Market on May 19. If you are unable to attend you can extend your vote by proxy by notifying your intent to our Secretary, Karen Hinderman.

Not much progress has been made on our display case situation. We'll try to have some option to present to the members at the next meeting. I will be measuring one of our existing cases and intend to get quotes on a quantity of cases from a cabinet shop. Anyone wishing to provide input or ideas should let me know. Even if we find someone to make them, we might still be faced with the need to put together a work party to make liners.

Our spring meeting will at 4:00 p.m. on May 19, 2012 at the Seattle Mineral Market, located at the Lake City Community Center, 12531 28<sup>th</sup> Ave NE, Seattle, Washington. We look forward to seeing everyone again at this very enjoyable event, one that is starting to become one of the Northwest's only "destination" mineral related events.

The annual Washington Pass clean-up will be held this year on August 10-12. It will be summer by then.

The 2012 Annual PNWFM Symposium and Mineral Show will occur on October 12—14, 2012 at the Red Lion Kelso. The symposium theme this year will be sulfates, so it is not too early to be thinking about your favorite sulfate mineral. Think Sulfates!

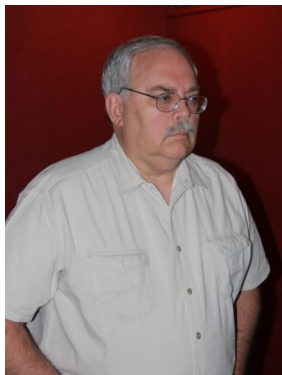
As always, one of the best parts of this job is the opportunity to communicate with members. I encourage you to stay in touch via e-mail or telephone, and let me know what you are thinking about PNWFM.

See you soon,  
**Bob Meyer, President, PNWFM**

## YOUR VOICE IN THE NATIONAL

National Friends of Mineralogy holds its annual board meeting at the Tucson show each February. The Pacific Northwest Chapter is well represented at this meeting with six of the twelve elected at large board members and our chapter president serving on the board. Our local members also serve the National as president, secretary, newsletter editor, and webmaster. If you have ideas, comments or complaints about what the National is doing or not doing, please voice your opinion to one these members.

Photos by Al Liebetrau from the Tucson Board Meeting 2012



**Alan Young**  
National FM President  
Term expires 2014



**Mark Mauthner**  
National Secretary  
Term expires 2015



**John Lindell**  
National Newsletter  
Term expires 2015



**Jim Etzwiler**  
National Webmaster  
Term expires 2015



**Aaron Weiting**  
National Board  
Term expires 2014



**Sue Liebetrau**  
National Board  
Term expires 2015



**Bob Meyer**  
PNWFM President  
National Board

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## FUN AT TUCSON

Photos by Gail Spann except as noted



Photo by Bob Meyer





## PROPOSED BY-LAWS CHANGES FOR PNWFM

Questions were raised at the PNWFM general business meeting in October 2011 concerning the outdated nature of the groups by-laws and the evolved non compliance with many of the old articles. In response to this, President Bob Meyer appointed a committee of Bill Dameron, Ray Lasmanis, and John Lindell to review the by-laws and to make recommendations on changes to be made to make them current. After establishing a consensus of issues to be addressed by e-mail correspondence, the committee met in March along with Bob Meyer at Bill Dameron's home in Vancouver and drafted proposed changes to be presented to the membership. The current by-laws appear in the left columns below with the committee's proposed by-laws on the right. The membership will discuss and vote on the new by-laws at the next general business meeting at the Seattle Mineral Market on May 19th. Should you choose to vote by e-mail or post on the by-laws changes, your vote must be received by the secretary before that date.

No changes proposed on this page

### NON PROFIT ARTICLES OF INCORPORATION of PACIFIC NORTHWEST CHAPTER—FRIENDS OF MINERALOGY

The undersigned natural persons of the age of eighteen years or more, acting as incorporators under the Oregon Nonprofit Corporation Law, adopt the following Articles of Incorporation

ARTICLE I - The name of this corporation is Pacific Northwest Chapter - Friends of Mineralogy and its duration shall be perpetual.

ARTICLE II - The purpose or purposes for which the corporation is organized are: to engage in any lawful activity for which corporations may be organized under OPS Chapter 61. This corporation proposes particularity to promote the collection and diffusion of knowledge in the field of mineralogy as it pertains to the geo-graphical area covered by the respective membership; it will pursue a program of the preservation of mineralogical collecting sites of the Pacific Northwest to the full extent of legal rights pertaining to said sites; further, it will support the goals and activities of Friends of Mineralogy, the parent organization.

ARTICLE III - The address of the initial registered office of the corporation is, Route 4, Box 204B, Hillsboro, OR 97123 and the name of the initial registered agent at such address is Sharleen K. Harvey.

ARTICLE IV - The number of directors constituting the initial board of the corporation is three, and the names and addresses of the persons who are to serve as directors until the first annual meeting or until their successors are elected and shall qualify are:  
Robert J. Smith, 1521 2nd Ave. W. Seattle WA 98119  
Mike Groben, Route 1, Box 16. Coos Bay. OR 97420  
Sharleen K. Harvey, Rte 4, Bx 204B, Hillsboro, OR 97123

ARTICLE V - The name and address of each incorporator is:  
Robert J. Smith-1521 2nd Ave. W., Seattle WA 98119  
M. M. Groben-Route 1, Box 16, Coos Bay, OR 97420  
Sharleen K. Harvey-Route 4, Box 204B, Hillsboro, OR 97123  
Paul F. Lawson-7509 Caroline Lane, Vancouver, WA 98664  
Thomas W. Tuttle-P. O. Box 903 Mt. Vernon, WA 98273  
Harold M. Dunn-91218 Donna Road, Springfield, OR 97477

ARTICLE VI - In the event of dissolution of this Chapter, all its assets, properties and funds shall be turned over to one or more non-profit organizations created for like or similar purposes who are qualified for tax exemption under section 501 (c) (3) of the U.S. Internal Revenue Code.

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Old by-laws

CORPORATION BYLAWS  
PACIFIC NORTHWEST CHAPTER  
FRIENDS OF MINERALOGY

ARTICLE I - NAME AND REGISTERED OFFICE

Section 1. The name of this organization shall be: Pacific Northwest Chapter - Friends of Mineralogy

Section 2. The principal place of business of this corporation shall be Route 2, Box 204B, Hillsboro, OR 97123

ARTICLE II - PURPOSES

Section 1. The Pacific Northwest Chapter - Friends of Mineralogy was organized to operate exclusively for scientific and educational purposes in the field of mineralogy. It will sponsor educational programs, display minerals, promote the dissemination of information in mineralogy, organize field trip and give aid and support to other non-profit organizations of similar purposes.

ARTICLE III - MEMBERSHIP

Section 1. Applicants for membership must also belong to Friends of Mineralogy, Inc.

Section 2. A person may apply for membership by completing an application form and sending it to the Chapter Secretary-Treasurer. Application for membership in Friends of Mineralogy, Inc., can be made at the same time and will be processed by the Chapter. Dues must be submitted with the application. Approval of membership is made by the Board of Directors. (See Art IV.)

Section 3. Membership shall be denied if any Director feels that the applicant has acted unethically or contrary to the purposes and objectives of the Chapter.

Section 4. Members shall be considered to be in good standing upon payment of dues and continued interest in and adherence to the purposes and By-Laws of the Chapter. In the absence of these requirements, the Board of Directors may remove a member.

Section 5. A member is free to terminate his membership at any time upon his (or her) request.

ARTICLE IV – ELECTION AND DUTIES OF OFFICERS

Section 1. The Officers of this Chapter shall be a President, a Vice-President and a Secretary-Treasurer.

Proposed by-laws

**CORPORATION BY-LAWS**  
**Pacific Northwest Chapter**  
**Friends of Mineralogy**

ARTICLE I – NAME AND REGISTERED OFFICE

Section 1. The name of this organization shall be: Pacific Northwest Chapter - Friends of Mineralogy

Section 2. The principal place of business of this corporation shall be the address of the current president or treasurer as the Board of Directors may determine. This information shall be conveyed to the Secretary of State of Oregon by the treasurer as required.

ARTICLE II – PURPOSES

The Pacific Northwest Chapter - Friends of Mineralogy was organized to operate exclusively for scientific and educational purposes in the field of mineralogy. It will sponsor educational programs, display minerals, promote the dissemination of information in mineralogy, organize field trips and give aid and support to other non-profit organizations of similar purposes.

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Section 2. A person may apply for membership by completing an application form and sending it to the Chapter Treasurer. Application for membership in Friends of Mineralogy, Inc., can be made at the same time and will be processed by the Chapter. Dues must be submitted with the application.

Section 3. Membership may be denied if the Board of Directors decides that the applicant has acted unethically or contrary to the purposes and objectives of the Chapter.

Section 4. Members shall be considered to be in good standing upon payment of dues and continued interest in and adherence to the purposes and By-Laws of the Chapter. In the absence of these requirements, the Board of Directors may remove a member.

Section 5. A member is free to terminate his membership at any time upon his or her request

ARTICLE IV – ELECTION AND DUTIES OF OFFICERS

Section 1. The Officers of this Chapter shall be a President, a Vice-President, a Secretary and a Treasurer.

(a.) The President shall act with the executive power in conducting the activities of the Chapter in accordance with the By-Laws and Articles of Incorporation. The President shall act as the presiding officer on all regular and special meetings of the Chapter. He/she shall appoint committees as necessary.

(b.) The Vice-President shall assume the duties of the President in the event of his or her absence. The Vice-President shall have the responsibilities for project development and field trip coordination. The Vice-President shall have other duties as directed by the President.

(c.) The Secretary-Treasurer shall keep minutes of all Chapter meetings, send notices of its meetings, carry on correspondence of the Chapter, and keep the records of the Corporation. The Secretary-Treasurer receives all applications for membership. The Secretary-Treasurer shall receive and deposit all Chapter monies in an established commercial bank. He/she will make payments as due and report all activities to the membership at each business meeting.

Section 2. (a.) Elections of officers will be called by the Board of Directors.

(b.) The President shall appoint a nominating committee of three (3) members. The committee will present a slate of willing nominees to the membership.

Section 3. Officers will be elected by majority vote of the membership either at a general meeting, a quorum being present, or by mail ballot.

## ARTICLE V – BOARD OF DIRECTORS

Section 1. The Board of Directors of this Chapter shall consist of the elective officers plus the immediate past-president.

Section 2. Because the Pacific Northwest Chapter is a technical and educational group, the Board of Directors is authorized to use its discretion in handling the usual-business of the Corporation. Reports of their actions must be made to the membership at each meeting.

## ARTICLE VI - MEETINGS

Section 1. Meetings shall be scheduled at such time and places as mutually agreed upon by the members at the regular meetings or by the Board of Directors whenever necessary.

(a) The President shall act with the executive power in conducting the activities of the Chapter in accordance with the By-Laws and Articles of Incorporation. The President shall act as the presiding officer on all regular and special meetings of the Chapter. He or she shall appoint committees as necessary.

(b) The Vice-President shall assume the duties of the President in the event of his or her absence. The Vice-President shall have other duties as directed by the President.

(c) The Secretary shall keep minutes of all Chapter meetings, send notices of its meetings and keep the records of the Corporation.

(d) The Treasurer receives and processes all applications for membership. The Treasurer shall receive and deposit all Chapter monies in an established financial institution which offers checking accounts. He or she will make payments as due and report all activities to the membership at each scheduled meeting or as necessary. The Treasurer shall keep the official membership roll of the Chapter.

Section 2. (a) Elections of officers shall be every two years. A special election may be called by the Board of Directors if necessary.

(b) The President shall appoint a nominating committee of three (3) members. The committee will present a slate of willing nominees to the membership.

Section 3. Officers will be elected by majority vote of the votes cast by members in good standing, a quorum being present, at a scheduled meeting. Votes may be cast in person, by proxy, by U.S. Mail or by electronic mail.

Section 4. Should any officer not be able to continue in their duties or resign, a temporary replacement shall appointed by the President and confirmed by the Board until the next regularly scheduled election.

## ARTICLE V – BOARD OF DIRECTORS

Section 1. The Board of Directors of this Chapter shall consist of the elective officers plus the President's predecessor.

Section 2. The Board of Directors is authorized to use its discretion in handling the usual business of the Chapter. Reports of their actions must be made to the membership at each meeting.

## ARTICLE VI – MEETINGS

Section 1. There shall be an annual meeting of the membership at a time and place to be agreed to by a majority of the members at a scheduled meeting. Other scheduled meetings may be called by the Board of Directors with at least 30 days notice.

Section 2. The Secretary-Treasurer shall send notices of meetings to all members at least one month in advance of each meeting.

#### ARTICLE VII - DUES

Section 1. Dues are to be paid yearly at a rate to be determined by the membership in accordance with the funds needed by the Corporation.

#### ARTICLE VIII - QUORUM

Section 1. The definition of a quorum for the transaction of Corporation business shall be (12) twelve members present.

#### ARTICLE IX - REGISTERED AGENT

Section 1. The Corporation shall designate one of its members in good standing to serve as the Registered Agent in connection with the requirements of Chapter 61 ORS (State of Oregon). This person shall also act as Corporate Officer in obtaining the non-profit tax-exempt status with the I.P.S.

ARTICLE I - OPERATING PROCEDURES Section 1. All other Chapter business and activities not defined and described in these By-Laws shall be conducted according to customary operating procedures as determined by the Board of Directors.

#### ARTICLE XI - AMENDMENTS

Section 1. These By-Laws and the Articles of Incorporation may be amended by a two-thirds majority or a quorum at a regular or special meeting or by mail.

Section 2. The Secretary or the Secretary's nominee shall send notices of all scheduled meetings to all members at least one month in advance of each meeting by electronic mail or U.S. Mail.

#### ARTICLE VII – DUES

Section 1. Dues are to be paid yearly at a rate to be determined by the membership in accordance with the funds needed by the Corporation.

Section 2. In accordance with Article VI of the Articles of Incorporation of this Chapter and the Operating Regulations of the (national) Friends of Mineralogy, Inc., Chapters, Article A-5-a, in the event of dissolution of this Chapter remaining funds shall be remitted to the (national) Friends of Mineralogy, Inc., providing that the (national) Friends of Mineralogy is at that time qualifies for tax exemption under section 501 (c) (3) of the U.S. Internal Revenue Code.

#### ARTICLE VIII – QUORUM

The definition of a quorum for meetings of the Chapter shall be those present in person or by proxy. The act of a majority of the members of a quorum shall be the act of the full membership except as may otherwise be specified by statute, the Articles of Incorporation or these Bylaws.

#### ARTICLE IX – REGISTERED AGENT

The Corporation shall designate one of its members in good standing to serve as the Registered Agent in connection with the requirements of Chapter 61 ORS (State of Oregon).

#### ARTICLE X – OPERATING PROCEDURES

All other Chapter business and activities not defined and described in these By-Laws shall be conducted according to customary operating procedures as determined by the Board of Directors.

#### ARTICLE XI – AMENDMENTS

Section 1. These By-Laws and the Articles of Incorporation may be amended by a two-thirds majority of the votes of the members present and voting at a scheduled meeting, or submitting votes as described below. Voting must take place in connection with such a meeting but voting may also be by proxy, U.S. Mail or via electronic mail as described in Sections 2, 3 and 4 below.

Section 2. The voting date will be agreed by a majority the Board of Directors.



### ARTICLE III - ADOPTION

Section 1. These By-Laws were adopted by an affirmative vote of two-thirds of the membership present at a regular meeting on the second day of June-, 1979.

Secretary

Section 3. Ballots for amendments shall be mailed via the U.S. Post Office or electronic mail by the Secretary or his or her designee to all members current in their dues, as determined by the Treasurer, not more than 50 days and not less than 30 days before the voting date. With each ballot shall be mailed a copy of the proposed changes and a brief statement by the proponents and opponents, if any, of reasons for and against the changes.

Section 4. Completed electronic mail and postal ballots must be returned to the Secretary, postmarked or transmitted at least seven days before the voting date

### ARTICLE XII – ADOPTION

These amended By-Laws were adopted by an affirmative vote according to procedures described in Article XI above at a scheduled meeting on May 19, 2012.

Signed by the Secretary (date)



Azurite and Malachite, Clifton, Arizona, AMNH #8845, photo by Bob Meyer



**PNWFM 38TH ANNUAL SYMPOSIUM**  
**“SULFATES”**  
**KELSO, WASHINGTON, OCTOBER 12-14**

It's not too early to start thinking about the annual PNWFM Symposium in October. This year's theme will be “Sulfates”. Speaker chair Allan Young has lined up an excellent program of talks featuring:

**Les Presmyk** - "Arizona's Fabulous Sulfates"

"Sulfates and Other Minerals of Tiger, Arizona."

**Dick Dayvault** - "Celestine Bearing Geodes from the East Flank of the San Rafael Swell"

"Book Cliff Type Barite from Western Colorado and Eastern Utah."

**Alfredo Petrov** - "Sulfates from Volcanic Fumaroles and Burning Mines"

"Sulfates from Decomposing Sulfides and Evaporite Deposits"

In addition our own “**Barite**” **Bill Dameron** will present a talk on, what else, Barite!



Barite on Fluorite, Rock Candy Mine, British Columbia, Canada, 23cm, collected 7/7/85 by John Lindell. Photo by John Lindell

## Heson Mine, Arizona

One of the major reasons to venture south to Arizona in February to the Tucson Show, is that there is no snow on the ground, seldom pelting rain and one can actually mineral collect in the field. Most of the Pacific Northwest collectors who make the pilgrimage try to incorporate some field collecting into the trip. This year, as often in the past, Ray Lasmanis and John Lindell made time on the trip to hook up for a couple days of camping and getting dirty.

Both spent time earlier in the trip at different areas chasing rocks, but finally got together along with Ray's partner Linda near Quartzite for a starry night, campfire, and a few brews at the old Veta Grande Claim.



The following morning an early rise with the sun took them north to meet with Brandon Godas, son of legendary Arizona collector George Godas, and Jean-Christophe Giron, a French collector currently working in the US. After a roadside meeting where John abandoned his feeble rental car, the party set out on the four wheel drive to the Heson Mine in the Buckskin Mountains.

The Heson is a locality which has not seen much activity outside of a few Arizona collectors. It is known for its fluorite and calcite combinations. Specimens are abundant. Good ones are a challenge. In the last couple years a few other things have started to emerge including galena pseudos, linarite, excellent bronchantite, some minor mimetite and wulfenite.

The vehicles can only get to within a mile or so of the mine. After that it is a beautiful hike up a long dry draw to the mine. Motorized vehicles would not be allowed anyway as the mine sits in a wildlife preservation area. In February the entrance to the mine is relatively easy via an open adit. In warmer months one must take a long stick and prod away the many rattlesnakes who guard the entrance enjoying the shade and hoping for some unsuspecting rodent.

The workings are not extensive, but areas to work are everywhere as crystallized material is obvious. Most however is "B" grade. It is easy to fill your pack.

A good time was had by all.

Still did not find "the Killer".

Next time.

Cheers, John





## The Micro Mineral Collector

By Bob Meyer



**Wulfenite with Hemimorphite and Manganese Oxides**—a superb bright orange crystal of wulfenite acts as a serving dish for a scattering of exquisite transparent colorless hemimorphite crystals and odd dark dendrites, which are probably manganese hydroxides. From the 79 Mine, Gila County, Arizona

The field of view is 3.5 mm. John Lindell collection.

### Buy and Use a Good Microscope—*adopted from Neal Yedlin*

*Friends Rock*, in that friends are great to have, in that people in our group literally are friends of rocks (& minerals), and in that many of these friends of rocks are friends, who rock. In this installment of *The Micro Mineral Collector*, we'll be taking that one step further and we'll be looking at:

*Friend's Rocks*. Most recently, friends have brought by specimens to photograph. This has happened enough recently that I thought it would be nice to feature the resulting photographs as a celebration of friends in this issue of the Pacific Northwest *Friends of Mineralogy* newsletter.





**Creaseyite as lime-green sprays, with yellow crystals of Mimeteite from the Collins vein, Mammoth St. Anthony Mine, Tiger, Pinal County, Arizona. Self collected by Linda Smith in February 2012, and in her collection.  
The field of view is 2.7 mm.**



**Auriacusite, as golden needles, from the Black Pine Mine area, Granite County, Montana. This is a relatively new species, in the Olivenite group, and was described in 2009. The species was discovered by John Dagenais, the specimen was collected by him, and is in his collection. The field of view is 2.2 mm.**





Copper crystals on bright red acicular crystals of Cuprite variety *chalcotrichite*, from Bisbee, Arizona.

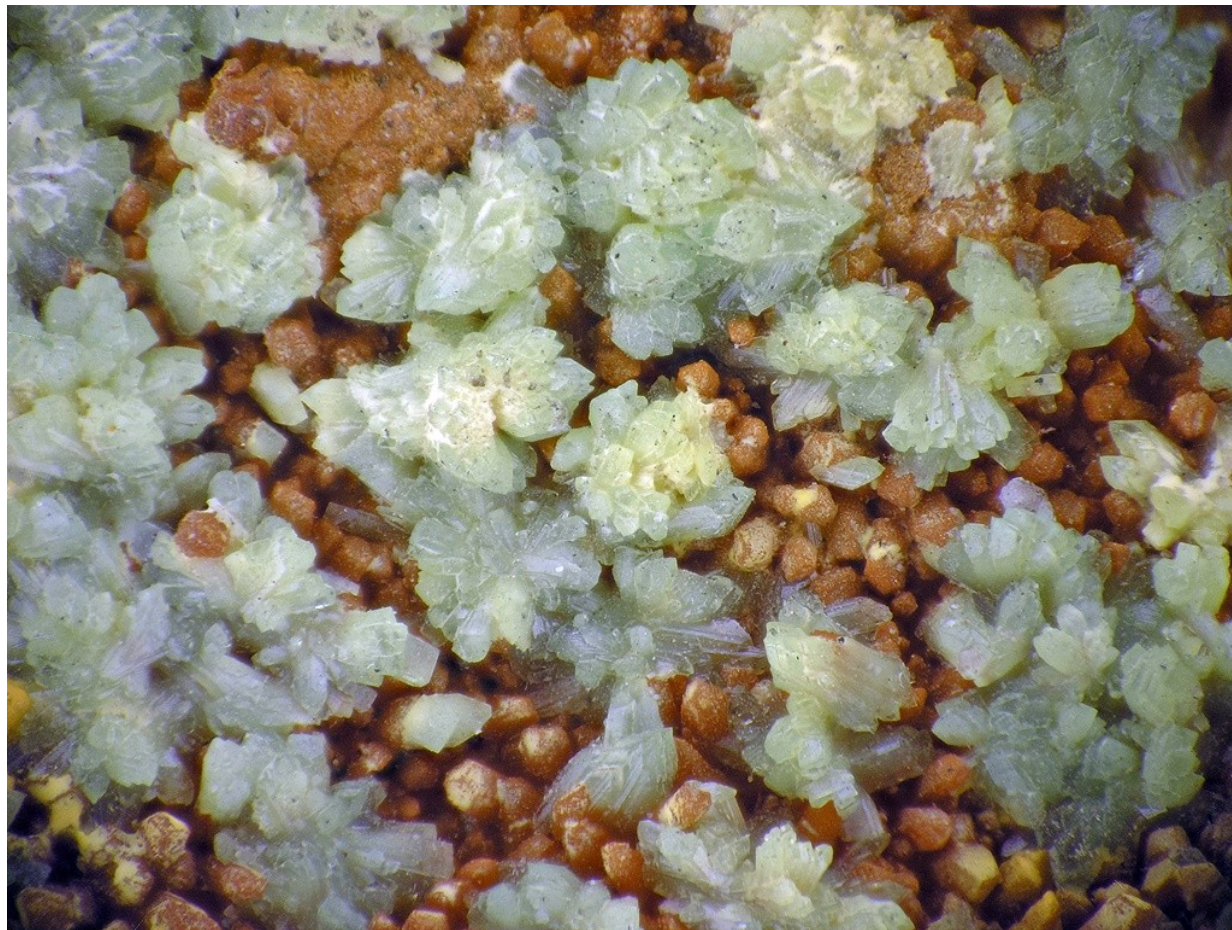
John Lindell collection. The field of view is 3.2 mm.



Lime green Fornacite crystals in a colorful array with colorless Hemimorphite, orange Wulfenite, blue Chrysocolla, and dark manganese oxides. From the 79 Mine, Gila County, Arizona. Fornacite is very uncommon from this mine.

John Lindell collection. The field of view is 7.5 mm.





**Mandarinoite, superb sprays and rosettes of crystals on Siderite, from the De Lamar Mine, Owyhee County, Idaho. Collected by Ray Lasmanis. John Lindell collection. The field of view is 8.5 mm.**

*Instead of Find Elmo*, find what section of the above photograph is a portion of the finest specimen of Mandarinoite in existence. The answer is: all of it. You have certainly never seen so much Mandarinoite in one place in your life, even if you were paying attention. Ray Lasmanis was. It all goes back to May 11, 1978, when Ray was visiting the still snowing 6316' bench, more specifically the mine coordinates 45 475 N, 98 030 E, of the Summer Camp Pit of the De Lamar Mine. He noticed a rock that was richly mineralized and had these nice green crystals, which later proved to be an iron selenate, unknown as of that time. Ray submitted the material to a researcher for description and publication, but as does sometimes happen with such things, his material sat for a while, and independently the mineral was described from material mined in Bolivia and the mineral was subsequently named Mandarinoite. Ray's discovery still remains the best find of the species, and this is a view of the best specimen he found that day. The photograph below is of another section of this fabulous piece.





Mandarinoite, a divergent spray of excellent green crystals, on Siderite, with a light purple crystal of what is presumably Chlorargyrite. From the De Lamar mine, Owyhee County, Idaho. Collected by Ray Lasmanis. John Lindell collection. The field of view is 1.0 mm.



Green Uvite with pale tan crystals of Svanbergite on Magnesite from Brumado, Bahia, Brazil. Ray Hill collection. The field of view is 1.5 mm.

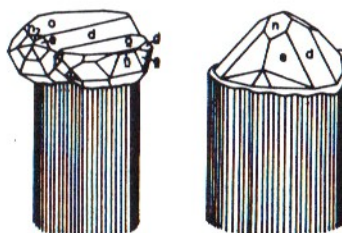




**Colusite crystals, showing twinning, on Enargite blades from the B3516XCS @99', 3500' Level, Leonard Mine, Butte, Silver Bow County, Montana. Specimens from the collection of Ray Lasmanis.**

**The fields of view are 7.6 mm (left) and 5 mm (right).**

*As a college student*, Ray Lasmanis obtained summer intern work in the mines of Butte, Montana. He worked in many different functional areas within the mines during this period. One day he spotted some interesting mineralization in one of the mines. He collected samples, which he recognized as being scheelite. Ray's boss at that time, the estimable late Lester G. Zeihen, was very pleased by this first discovery of a tungsten mineral at Butte. In addition to receiving a transfer to a research position, Ray was given a number of these interesting colusite specimens. The material was the subject of a 1960 American Mineralogist article by Richard Bideaux, and the diagrams below are from that article.



**FIG. 2 (left).** Group of three twinned colusite crystals oriented on an enargite prism. Leonard mine, Butte, Montana. Photograph by John W. Anthony.

**FIG. 3 (center).** Colusite twin oriented on enargite. Forms on the colusite twin are  $o\{111\}$ ,  $e\{012\}$ ,  $n\{112\}$  and  $d\{011\}$ .

**FIG. 4 (right).** Colusite crystal oriented on enargite. This crystal lacks  $o\{111\}$ ; other forms as in Fig. 3.



**ELSIE BOGGS**

1920 – 2012

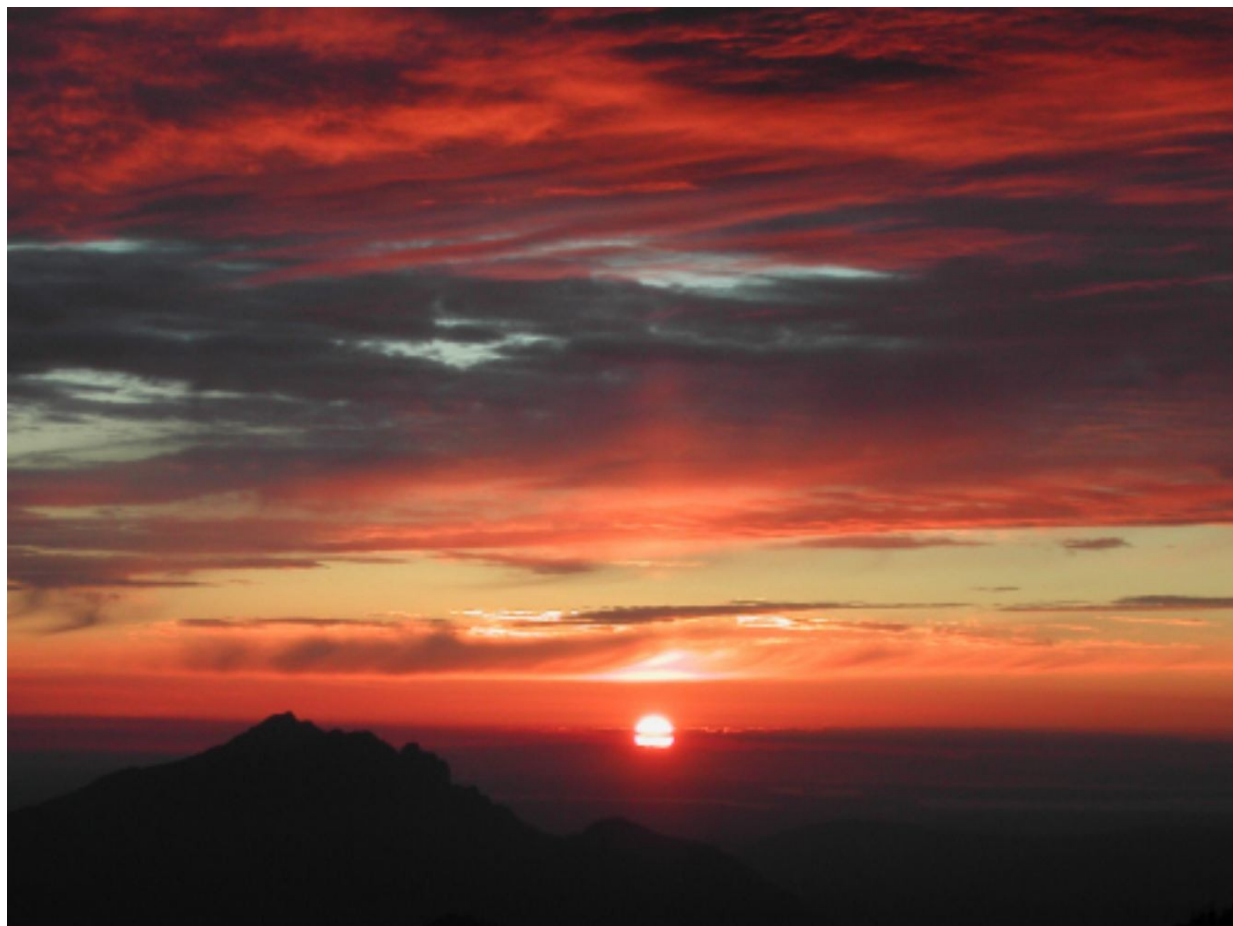
It is with great sadness that I report the passing of Elsie Boggs. Elsie passed away on January 2. She had been suffering from a debilitating back condition for a number of years, which made it very difficult for her to be up and on her feet at all. Bob Boggs, her husband of 62 years, was almost continuously at her side during this period, and provided the care she required, most recently with the help of their son, John.

I am not sure if Elsie was ever a member of PNFWM *per se*, nor was she a mineral collector, but she was truly Bob Boggs' other half, and was with him on the vast majority of his numerous collecting trips. The team of Bob and Elsie traveled extensively in their 1964 Dodge pick-up and camper, bringing the venerable vehicle up to a total of about 360,000 miles. Together, they made a myriad of trips to such favorite places as Washington Pass, and venturing as far as Point of Rocks, Chaco Canyon, and the Chiricahua Mountains.

Elsie was a good friend to many of us. We would certainly remember her pretty smile, her clear voice, and cheerful and friendly disposition. Elsie had quite a wit and could sometimes surprise you with a joke or a very perceptive comment. She went along in good spirits with the intensity for which Bob and Russ pursued their interests in minerals, but she didn't always suffer in silence. So, while Elsie would listen patiently when the talk roamed to the subject of minerals, her eyes would especially light up when the subject of conversation would turn to the ruins of the ancestral Pueblo peoples of the Southwest, people she befriended on their trips, or birds, weather or plants she had encountered.

We will miss Elsie, and our hearts go out to Bob and to their children John, Russell and Linnet in this time of mourning.

Bob Meyer



Sunset from Vesper Peak, Washington, photo by John Lindell

# Seattle Mineral Market # 5

Free Admission, Free Parking, Free Minerals for Kids

**Saturday, May 19, 2012 - 10 AM until 6 PM**

Dealer Load in 6 PM on the 18th and 7AM on the 19th

**Lake City Community Center 12531 28th Ave NE**

Contact: Bart Cannon 206 522 9233 bart@cannonmicroprobe.com

Website: <[www.cannonmicroprobe.com/test.htm](http://www.cannonmicroprobe.com/test.htm)>

**MINERAL SPECIMENS, GEM MINERALS, MINERAL and MINING  
BOOKS, MINERAL ART, MINERAL PHOTOGRAPHY, MINERAL  
COLLECTING EQUIPMENT, NW CHAPTER FRIENDS of  
MINERALOGY BUSINESS MEETING**

\* Free Minerals for kids, \* Free Mineral Identification \* Microscope Demos



## Dealer List April 25th, 2012

Earthlight	Bart Cannon
Bob Meyer	Galaxy Gems Brazil
Alfredo Petrov	Pacific Rim Minerals
Ed Godsey	John Lindell
Ray Hill	Peter Boyd
Sal Noeldner	Wes Gannaway
Ed Molsee	Washington Treasures
Tom Payne	Alex Carrington
Annika Wahrendahl	Jeff Swartz
Jim Allen	Brittany Burkhardt
Joshua Rose	Sound Minerals
Issaquah Valley RC	Snowflake Cottage
Russell Boggs	Friends of Mineralogy
Don Grybeck	Scopes



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## PNWFM CALENDAR

PNWFM Meeting at  
Seattle Mineral Market - May 19th

Washington Pass Cleanup - August 10th-12th

PNWFM 38th Symposium  
Sulfates - October 12th-14th



Barite on Fluorite, Rock Candy Mine, British Columbia, Canada, 7cm, collected 5/8/95 by Mark Mauthner

John Lindell collection #2299, photo by Mark Mauthner