PACIFIC NORTHWEST CHAPTER FRIENDS OF MINERALOGY

1

2

3

March 2019



Inside this issue: President's Message Whatcom Museum Mineral Symposium Announcements **PNWFM Meeting** 4-5 Minutes **2018 PNWFM** 6-34 Symposium **Display Case** Report

Mineral Meeting 35 Calendar

PNWFM Contacts

Toby Seim President Pnwgemcollectors @gmail.com

Gary Hinderman Vice President gkmhind@comcast.net

Karen Hinderman Secretary gkmhind@comcast.net

Bruce Kelley Treasurer bruce.kelley@gmail.com

Toby Seim Symposium Chairman Pnwgemcollectors @gmail.com

Bruce Kelley Webmaster bruce.kelley@gmail.com

Beth Heesacker Newsletter Editor heesacker@coho.net

PNWFM



President's Message Toby Seim

Greetings all,

From my recent interactions, it sounds like many of our members have had a very productive start to the year regarding their miner-

al related activities. I know Allan Young has made great progress acguired an all-star cast of speakers for our annual Symposium in October, good work Allan! There has been a suggestion to enhance the theme of our Symposium from "Great Mines of the West" to "Specimen Mines of the West" and we have decided to make the change.

As mentioned in our last newsletter, we are currently working alongside the Whatcom Museum for the upcoming launch of our own mineral exhibition. Their Exhibitions Committee has unanimously endorsed the mineralogy exhibit at Old City Hall (Bellingham). The exhibition will open August 17 and run through February 1, 2020. This is a longer than usual run, but they are excited to provide the opportunity to for PNWFM members to share our stellar specimens with the public throughout the fall and into the winter months. We have a good list of contributors willing to lend specimens but we are still searching to fill some content. Keep in mind we are in need of both minerals and historical or geology related information. If you are interested in participating, please reach out and I can fill you in on the details. More information can be found on page 2.

With summer approaching, I will be looking to verify access and schedule some potential field collecting trips for our members to attend. If there is a possible locality you know that could be an opportunity, let's consider it.

Looking forward to seeing many of you at the Seattle Mineral Market! Cheers

PNWFM Exhibit at Whatcom Museum

Bellingham, Washington



What Lies Beneath: Minerals of the Pacific Northwest

Aug 17, 2019 - Feb 1, 2020, Old City Hall

Rocks and minerals are the very foundation of our planet. Minerals are the basic geological building blocks of the solid earth. They can be beautiful and dazzling to the eye, as light catches the naturally occurring facets. To a trained eye, some minerals might be fairly easy to find with a bit of digging; while others require rappelling down the side of a cliff.

In this exhibition the Museum has partnered with members of the Friends of Mineralogy – Pacific Northwest Chapter to present an incredible display of minerals collected throughout the Pacific Northwest. From those the size of a fingernail to those requiring a forklift, learn how minerals are formed and where they are found. See the collector's "tools of the trade" and marvel at the extremes some will go to find the perfect specimen. Photos and video document the field work involved, and help us understand where these minerals are formed and how they are collected.

Complementing the exhibition will be a variety of programs and hands-on activities.

Start planning for the

2019 PNWFM Symposium

Our fall FM symposium will be held October 18-20 at the Red Lion Hotel in Kelso, Washington. The theme this year is

"Specimen Mines of the West."



7th Annual New England Mineral Conference

~~~~~~~~

The 7th Annual New England Mineral Conference (NEMC) will be held Friday, May 10 through Sun., May 12, 2018 at the Grand Summit Resort Hotel and Conference Center at Sunday River, Newry, Maine. Presentations on both New England and non-New England topics are scheduled on Friday evening and during the day on Saturday. In addition, there is a Friday evening banquet, mineral displays and exhibits, and both a voice and a silent auction in support of the conference. Dealers can be visited by registrants from Friday afternoon through Saturday evening (except during the presentations). The weekend culminates with a field trip on Sunday.

An exciting feature of the conference is *Education Day* a fee-free event for students in grades 3-12, which occurs on Friday, May 10. On *Education Day* students can visit over 20 different stations to learn about minerals and geology. There is also a juried *Poster Contest* which gives the opportunity for students to submit a research project about anything relating to the rocks and minerals of New England. Winning posters in each category will be displayed throughout the conference.

For further information about the conference please visit: <u>https://www.nemineral.org/2019/</u> <u>conference/index.html</u> For information about *Education Day/Poster Contest* please visit: <u>https://</u> <u>www.nemineral.org/2019/education/education\_day.html</u> The New England Mineral Conference is a division of the non-profit New England Mineral Association, a 501(c)(3) organization.

# PNWFM Meeting Minutes 01/12/19

President Toby Seim opened the meeting thanking Julian Gray and the Rice Northwest Museum of Rocks & Minerals for hosting us today. There were fourteen members and two guests present.

New Business: We reviewed the history of our organization (formed in 1975) and the original

goals:

- To encourage the collection of minerals for their research, educational, and aesthetic values.
- To advance programs of mineral study and the educational activities of amateur groups.
- To promote the dissemination of information about minerals, mineral localities, collections, and mineral studies.
- To preserve and protect mineral specimens for education and research.
- To promote the preservation of valuable specimen localities and mining deposits.

John Lindell agreed to write an article for an upcoming newsletter where he will review the history of our club. Toby recommended that we use the original goals to form new benchmarks as a way to improve our effectiveness as a club. Also, in an effort to achieve our goals, Toby has been communicating with Whatcom Museum in Bellingham to coordinate our club providing mineral specimens for a display case and/or minerals for kids to interact with in the Family Interactive Center part of the museum. They are still in the early stages of planning. Toby has learned that a display would possibly be at the museum for three to six months, the museum provides insurance coverage, and Toby would need assistance with getting the minerals to the museum, displaying them properly, and getting them back to their owners. Toby will continue communicating with the museum and will report back to the club later. More discussion ensued around the idea of coordinating with the museum to have a special event presentation, and /or a mystery mineral day/rock clinic. John Lindell asked Julian if our club still has a display at the Rice Museum. We currently do not have a display, but could. It was discussed that our club put together a Pacific Northwest display for the museum. The specimens in the display would be on loan to the museum for one year at a time. Our club will coordinate with Julian and the museum to get this project going again. We also have a plague at the museum honoring Noble Witt awardees. Bruce Kelley will send an updated list of awardees to Julian at the museum, and then Julian will update the plaque.

Toby has created a shared google drive for current and past officers and committee members to share documents that are historically relevant or pertinent to our current and future success. Wes Gannaway has given Toby four boxes of documents that need to be scanned and placed into the shared document. Toby will create a PowerPoint template to be used as an improved format for reporting chapter business.

Other ideas shared to promote our goals and our symposium include: communicating and collaborating with local rock clubs, including the NW Federation; coordinating and collaborating with the NW Rockhounds FB group in finding and exploring lost localities; include mining ethics in our educational outreach and a possible clean up field trip at Hansen Creek; collaborating with Rocks & Minerals magazine to create an Oregon state issue (Aaron Wieting started this); and creating a NW reference collection that is all inclusive for each locality (John Lindell).

Symposium News: Toby Seim will be the 2019 symposium chair. Theme: Mines of the West. We discussed how to promote the rock show portion of our symposium to create more foot traffic for dealers. Publicity ideas: FB blasts, flyers at every local rock show, pay for an ad on FB, ad in Rocks & Minerals, targeted mailing lists, and create a display/ad podium to have at local rock shows. One idea for a Friday evening talk was presented: cataloging and curating your collection. Bruce Kelley, treasurer, will maintain two separate rosters. One will be for membership only and another to include past members, dealers, speakers, VIP's, and such. Bruce will create a Google group which should allow us to more easily manage the list of current membership emails. Gary Hinderman will look in the storage unit and assess the cases. If the cases need connector gadgets, Bruce will be able to get them. Gary will have a report for the next meeting. Bruce will be delivering the club's slide projector to the storage unit.

Old Business: Outgoing treasurer, Scott Ankenbrand, and Bruce completed necessary items to transfer accounts to Bruce and to include Toby as a signer. Year-end account information was presented. The board decided that Scott will initiate the process to change the bank signers, removing Robert Meyer and Scott Ankenbrand, and adding Toby Seim. Our new list of signers will be Bruce Kelley, Treasurer; Toby Seim, President; and Karen Hinderman, Secretary. Scott will also initiate an address change with the bank to send the statements to Bruce's address.

Good of the Order: It was suggested that someone speak with Wes Gannaway and Randy Becker about the annual summer clean-up and collecting field trip. Bruce will send the Noble Witt plaque to Doug Toland's wife Mary. Bruce will remove John Lindell from the Facebook group administration and add Toby.

Next meeting will be Sunday, May 19, 2019, at 9 am before the Seattle Mineral Market opens. Brittany Burkhardt will check on a meeting space and get back to us.

Meeting adjourned. Secretary, Karen Hinderman



Clinoclase from Tin Stope, Majuba Hill Mine, Antelope Dist., Pershing Co., NV, FOV: 1.78 mm, Stacking: 191 frames at 5 µm. Copyright © 2019, Bruce J Kelley

Interested in a wonderful resource for teaching children about minerals? Check out the books and other resources at Diamond Dan Publications. http://www.diamonddanpublications.net/

# Displays at the 2018 PNWFM Symposium: Minerals of California

# By Bob Meyer



The Rice Museum of Rocks and Minerals case, featuring 12 specimens from the State of California.

The 2018 PNWFM Annual Symposium featured 10 displays, the topics of eight of which aligned with the symposium theme, *Minerals of California*. PNWFM recognizes that the effort involved with putting together displays of such caliber transcends the simple activity of selecting, mounting, and labeling to prepare for the symposium. In actuality, the act of putting together such suites would typically involve years (sometimes many years) spent diligently searching for and solving issues, such as availability, skill in field-collecting, and expense, related to acquiring specimens that fit within the themes presented. PNWFM would like to extend a sincere thank you to our exhibitors for their efforts.

On a personal note, the topic this year struck a cord that resonated with me, and my childhood in that state. A fifth-generation Californian, I am told my ancestors dated back before the gold rush. I began my interest in minerals as a child in that state. I saw a number of specimens that reminded me of that time as a child obtaining specimens of California specimens where I could.

The Rice Museum of Rocks & Minerals presented a case containing 12 superb specimens from the State of California. Notable was an outstanding specimen of **Benitoite**, 25 cm across, from the Dallas Gem Mine, San Benito County, featuring numerous blue ditrigonal - dipyramidal crystals of up to 2 cm in size, many that were transparent, with minor white **Natrolite** on matrix; two specimens from the Himalaya Mine, San Diego County, an 11 cm twinned crystal of **Microcline** and a 9 cm high superb terminated deep pink/red **Tourmaline** featuring an esthetic spray of **Albite variety Cleavelandite** perched on one side. Also included was an impressive 20 cm specimen consisting of a double-spray of black **Tourmaline** from Thompson Peak, Plumas County; an exquisite 9 cm specimen of crystalized **Gold**, featuring sharp modified and hoppered crystals to over 1 cm from the Colorado Quartz Mine, Mariposa County; and my nostalgic favorite, a 20 cm specimen of **Ulexite**, as a blanket of free-standing white acicular crystals on colorless to tan **Colemanite** crystals on massive white **Ulexite** and associated with "evaporite minerals," from the U.S. Borax Open Pit Mine, Boron, Kern County.



Ulexite with Colemanite, 20 cm across. Rice Museum of Rocks & Minerals collection.



California Jade case by Al and Maureen Homenuke

*Al and Maureen Homenuke* presented a wonderfully informative case entitled "*California Jade,*" containing 29 specimens, one carving, a glossary of jade terms, three photos, and a map. Notable was "*Soul Fish*," a 14 cm Jade Cove **Nephrite** carving on wood by R. A. Smith; a superbly patterned slab of Eel River **Nephrite** and **Diopside**, 18 cm across; a very interesting annotated 25 cm slab demonstrating Metasomatism; a 9 cm specimen of Vonsen Blue **Nephrite**; and a 9 cm slab of black **Nephrite** with sprays of **Magnetite** from Stoddard Mountain. Trivia question for our readers: The face on "*Soul Fish*" resembles which PNWFM member?



Patterned Nephrite & Diopside Slab, Eel River, 18 cm across, Al & Maureen Homenuke specimen.





"Soul Fish" 14 cm Jade Cove Nephrite caving by R. A. Smith. Al & Maureen Homenuke collection.



An annotated 25 cm slab demonstrating Metasomatism. Al & Maureen Homenuke collection.



#### California Jade Glossary in the AI & Maureen Homenuke display.



Allan Young's case of California Minerals

*Allan Young* presented a case of 31 specimens from the state of California, all of excellent quality, and very attractively displayed in three groups. The specimens were all thumbnails, mounted

on white bases with transparent labels. Allan also included a book, *Minerals of California*, 1956, Bulletin 173, California Division of Mines, Ferry Building, San Francisco; and the November - December 1977 issue of the Mineralogical Record, *California Issue*. As another personal side note, I recall visiting the California State Mining and Mineral Museum as a child, when it was at the Ferry Building in San Francisco. The museum had a library in addition to the mineral displays.

Allan's case thoroughly covered some of the themes one would think of in terms of California minerals. The famous pegmatites of San Diego county were represented by eight specimens from six localities, two specimens of Spodumene, four specimens of Elbaite, one of Topaz, and one Stibiotantalite. The best to my mind from this group was an exceptional specimen of deep pink EIbaite from the Stewart mine. This specimen is a stout, basally-terminated, 3 cm tall crystal that appeared to be of the top color and largely flawless. This specimen could be cut into a very fine large faceted stone, and it was very gratifying to see it still extant as a superb mineral specimen. Allan also had representation from California gold mines, in the form of seven superb specimens of crystallized Gold from seven different locations. All of the specimens were well-crystallized and esthetic. The localities represented were the Colorado Quartz mine, Mariposa County; the Harvard mine, Tuolumne County; the Mockingbird mine, Mariposa County; the Red Ledge mine, Nevada County; the Eagle's Nest mine, Placer County; the 16-to-1 mine, Sierra County; and one specimen from Eldorado County. San Benito County was represented by five specimens, one each of Benitoite, Neptunite, Clinochlore, Cinnabar, and Hematite. Both the Benitoite and the Neptunite were noteworthy. The Neptunite featured a superb 2.5 cm long doubly-terminated crystal perched cross-wise on an attractive Natrolite covered matrix, and the Benitoite consisted of an outstanding single crystal 1.5 cm across, perched on a small bit of matrix. The Champion mine in Mono County was represented by two specimens, one of **Rutile**, and surprisingly, a display-worthy thumbnail specimen of Woodhouseite, featuring an 8 mm perched on smaller crystals of the same mineral. Another specimen that struck a chord was a display-worthy specimen of the mineral Sulfohalite, featuring a sharp orange-tan 1.5 cm octahedral crystal perched cross-wise on another crystal. It is extremely uncommon to see a specimen of Sulfohalite, especially an attractive one, included in any mineral display.



One of the specimens of Gold in Allan Young's case, a 2.3 cm group of crystals, dominated by a number of hoppered octahedrons of up to 1 cm in size from the Colorado Quartz mine.



Detail of Allan Young's case of California Minerals.

Very unusual to see this species in a mineral display: an attractive 2.3 cm specimen of Sulfohalite from Searles Lake, San Bernardino County. Allan Young collection.



CINNABAR New Idria District San Benito County



Botryoidal Cinnabar, New Idria District, San Benito County, 2.3 cm. Allan Young collection.

Page 12

1000



Bill and Diana Dameron's case: "Erratics."

<u>**Bill and Diana Dameron**</u> presented a skillfully curated case entitled "Erratics," containing 33 excellent specimens and one cut stone. The specimens all represent items outside of the topics of Bill and Diana's usual cases, which have included **Barite** (of course!), the minerals of Mali, or **Prehnite** (as they displayed at the symposium in 2017).

# <text><text><text>

Placard for the Case Entitled "Erratics," by Bill and Diana Dameron.

and the second second

Page 14

and the second second

PNWFM NEWSLETTER

**Some of Bill and Diana's Erratics** included a very nice **Ettringite** with **Gaudefroyite** from the N'Chwaning II Mine, Kuruman, Kalahari manganese field, Northern Cape, South Africa that was 7 cm across and consisted of an attractive grouping of greenish-yellow prismatic trigonal crystals of up to 1.5 cm in length with dark **Gaudefroyite**. Also included was an excellent 8 cm specimen of colorless **Fluorite** from Nikolaevskiy Mine, Dalnegorsk, Dalnegorsk Urban District, Primorsky Krai, Russia consisting of a group of sharp colorless cubic crystals; a superb 9 cm tall crystal of **Azurite** pseudomorphing to **Malachite** from Tsumeb, Namibia; an excellent 8 cm tall specimen of thick wire **Silver** in an attractive group with **Acanthite** from Kongsberg, Norway; an impressive 7 cm specimen of **Rutile**, primarily consisting of a large, dark, sharp and lustrous twinned crystal on a dark matrix from Graves Mountain, Georgia, USA; and a very nice 10 cm specimen of **Quartz**, consisting of slender colorless crystals in a an esthetic divergent group from the Belleza mine, Santander, Colombia.



Ettringite & Gaudefroyite, N'Chwaning II Mine, N. Cape Province, South Africa. 7 cm across.

Bill and Diana Dameron collection.



Detail from Bill and Diana Dameron's case.

Page 15

Fluorite, colorless crystals from Dal'negorsk, Russia, 8 cm. Bill and Diana Dameron collection.





Bonus! Bill and Diana Dameron's case exhibited at the 2019 Tucson Show (as mentioned in their Symposium 2018 exhibit). Barite World Tour #4, Central and Eastern Europe.



Case Exhibited by Dylan Trevors: Minerals of the Pacific Northwest.

**Dylan Trevors** presented a case entitled, "*Minerals of the Pacific Northwest*," that included 34 specimens representing many of the most well-known localities in the Pacific Northwest. Dylan included an excellent stout 12 cm tall single crystal of **Quartz** with **Hematite** inclusions from Denny Mountain, King County, Washington, USA, ex from the Bart Cannon collection; an impressive 10 cm specimen of smoky-amethystine **Quartz** from the Croaker Pegmatite, near Aeneas, Okanogan County, Washington, USA, ex Bart Cannon; and a number of attractive and interesting specimens of **Fluorite** with **Quartz** from the Whiteman Creek area, Vernon, British Columbia, Canada.



Two specimens of Fluorite with Quartz from the Whiteman Creek area, Vernon, British Columbia, Canada. 3.5 cm across. Dylan Trevors collection.

Page 17



Quartz with Hematite inclusions from Denny Mountain, King County, Washington, USA, 12 cm tall.

Dylan Trevors collection. Ex. Bart Cannon collection.

Smoky-amethystine Quartz from the Croaker Pegmatite, near Aeneas, Okanogan County, Washington, USA. 10 cm across. Dylan Trevors collection; collected by Bart Cannon in 1997.





Aaron Wieting's Case: 28 Years of California Collecting

**Aaron Wieting's version of California Dreaming** was presented this year in a case entitled, "28 Years of California Collecting." This impressive case included 35 specimens, all collected either solely by Aaron, or by Aaron in concert with others. Included in the case were excellent specimens of **Epidote** of up to 35 cm in size, associated with **Grossular** and **Quartz** from the Merrill Prospect, Coyote Front Range, Inyo County; superb specimens of **Andradite**, from the Tungsten Blue Mine, Tungsten Hills District, Inyo County, consisting of dark red-black crystals with massive **Quartz**, on rock, with one piece having lustrous crystals of up to 1.5 cm on the milky **Quartz** in an 8 cm pocket; and a very nice 12 cm specimen of **Hematite** from the Marble Mountains, San Bernardino County, featuring a number of dark grey sub-metallic crystal rosettes of up to 3 cm on matrix.



Andradite on Quartz, 8 cm pocket, from the Tungsten Blue Mine, Tungsten Hills District, In-





Hematite, 12 cm, from the Marble Mountains, San Bernardino Co. Aaron Wieting collection.



Epidote crystal sprays with Grossular, 15 cm, Merrill Prospect, Inyo Co. Aaron Wieting collection.



Bob Meyer's case, entitled, Minerals of California.

Bob Meyer presented 33 specimens in a case entitled, Minerals of California. Bob's case contained specimens representing many of the well-known mineral specimen producing districts in California. The Diablo Range, in San Benito County was represented by 10 specimens, including four specimens of **Benitoite**, three of which were matrix specimens and one a large single crystal 3 cm across; three specimens of **Neptunite**, with one a single 6.5 cm long doubly terminated crystal and the other two matrix specimens, 14 cm and 9 cm respectively with black crystals of up to 2.8 cm on white Natrolite. There were also some unusual things in Bob's case from San Benito County. From the Gem Mine was a specimen of the copper sulfide mineral **Djurleite**, as 5 mm grey metallic crystals on a specimen 3 cm across with Benitoite on Natrolite, and a rich 8 cm specimen of Joaquinite-(Ce) with numerous 1-2 mm crystals associated with Benitoite, Neptunite, and Natrolite. From the Dallas Gem Mine there was a rarely seen 3.5 cm stout terminated crystal of Natrolite. Natrolite is common in the deposits, but you don't typically see terminated crystals. The Gold producing areas of the state were represented by three specimens including two exquisitely crystallized examples, 8.5 cm on quartz and 4.5 cm from the Mystery Wind Mine, Michigan Bluff District, Placer County, and a rich historical specimen of Gold with Petzite, 9 cm across, from the Norwegian Mine, Tuttletown, Tuolumne County. "Jade" was represented by two specimens of California Jadeite, one a 5 cm nodule collected by a diver in the 1960's in San Francisco Bay (obtained for me from my greandmother), and the second a rare example of actual **Jadeite** crystals, 3.5 cm, from Austin Creek, near Cazadero, Sonoma County. Specimen's from unusual California localities in Bob's case included an 8 cm polished nodule of **Antimony** from the Tom Moore Mine, Erskine Creek deposits, Lake Isabella, Erskine Creek District, Kern County; a 10 cm pale yellow single crystal of **Colemanite** from the Boraxo Mine, Ryan, Furnace Creek District, Inyo County; a 9 cm geode lined with pink acicular Mordenite from the Black Hills, Imperial County; an 8 cm group of black Vesuvianite crystals from Drum Valley, Tulare County; and an 8.5 cm single crystal of Blödite from Soda Lake, Carrizo Plain, San Luis Obispo County. This last has some significance to me. I recall hearing when I was a child living in San Luis Obispo County about an 8" crystal of Blödite that was collected by Art Eadie and that he had traded the specimen to the Smithsonian for silver minerals. I am not sure how much of that story is true.

**March 2019** 

PNWFM NEWSLETTER

Page 21



Inesite, 9 cm, from the Hale Creek mine, Trinity County. Robert O. Meyer collection

"The Dancing Unicorn" crystallized Gold consisting of flattenedtwinned octahedra, 4.5 cm tall, from Portal #1, Mystery Wind Mine, Michigan Bluff District, Placer County. Robert O. Meyer collection.

> BLÖDITE An 8.5 cm doubly-terminated crystal Soda Lake, Carrizo Plain, San Luis Obispo Co., California

> > Minerals of California PNWFM 2018 Symposium Robert O. Meyer collection



An 8.5 cm doubly-terminated crystal of Blödite from Soda Lake, Carrizo Plain, San Luis Obispo County.

Robert O. Meyer collection.



# Daniel J. Evanich's case, covering two California localities, the Reward Mine, Inyo County, and the Champion Mine, Mono County.

Daniel J. Evanich presented a very informative case including 29 specimens and eight photographs that represented two California localities, the Reward Mine Group, Invo County, and the Champion Mine, Mono County. The 14 specimens from the Reward Mine Group included a very colorful 12 cm specimen of Wulfenite from the Brown Monster Mine as tiny orange crystals sprinkled on a matrix of Chrysocolla and Mimetite on rock with Cerussite and Calcite; two excellent specimens of **Caledonite**, 14 and 7 cm across respectively, from the Eclipse Mine; and two specimens from the Eclipse mine of Leadhillite replacing Galena, both about 8 cm across. One of these pieces is an outstanding example of **Leadhillite**, with cream colored crystals of up to 5 mm with Caledonite in a hollow area of the specimen. The Champion Mine area was represented 15 specimens, including an excellent specimen of **Svanbergite**, 9 cm across, with orange rhombohedral crystals of up to 6 mm associated with **Topaz** and **Quartz**; a specimen consisting of an intergrown group of Quartz crystals, 10 cm across, hosting in one hollow area a 1.1 cm straw colored crystal of Woodhouseite (very large for the species); a 12 cm Quartz crystal cluster hosting crystals of Rutile and Woodhouseite; a 10 cm specimen of buff-colored Andalusite crystals with deep blue Lazulite; and an 8 cm specimen of Anatase on Quartz from the White Mountains (Chris Lehmann claim).



Wulfenite with associates, 12 cm, from the Brown Monster Mine. Daniel J. Evanich specimen.



Caledonite with associates, 14 cm & 7 cm, from the Eclispe Mine. Daniel J. Evanich collection.



Leadhillite Crystals with Caledonite, 8 cm, from the Brown Monster Mine. Daniel J. Evanich collection.



Chrysocolla on Quartz, 8 cm, Eclipse Mine. Daniel J. Evanich collection.



Svanbergite crystals from the Champion Mine. Daniel J. Evanich collection.



A large 1.1 cm straw colored crystal of Woodhouseite on a 10 cm Quartz cluster from the Champion Mine. Daniel J. Evanich collection.





The M. G. Walker Case: A Few California Garnets—Fifteen Species, Endless Variety

*Michael (M.G.) Walker* presented a case entitled "A Few California Garnets—Fifteen Species, Endless Variety." The case included 24 specimens arranged in groups, along with some explanatory information about garnets and a copy of the March/April 1989 issue of the *Mineralogical Record*. There were eight specimens from San Benito County, representing three varieties of **Andradite**, the black melanite, green demantoid, and yellow-brown topazolite. The specimens were of very good quality and ranged up to 20 cm in size. There were three specimens of **Grossular** as deep red-brown crystals from Tuolumne County of up to 15 cm in size; a **Schorlomite** (5mm black crystal on 9 cm matrix) from the Coyote Peak Diatreme, Humboldt County; a group of four specimens and one pendant of orange **Spessartine** from the Little Three Mine, San Diego County, with one very fine specimen of 9 cm with orange crystals to 1.2 cm on **Albite** with **Schorl** and **Topaz**; two very good specimens of **Andradite**, 11 and 8 cm in size, with dark crystals associated with **Quartz** from Garnet Hill, Calaveras County; two specimens of orange-brown **Grossular** crystals on matrix, 12 and 7 cm from the Coyote Mine, Inyo County; and three specimens of **Uvarovite** ranging in size from 3 to 5 cm as small green crystals on matrix from Amador County.



Detail of M.G. Walker's case showing the three varieties of Andradite from the New Idria District, San Benito Co.



Andradite variety Topazolite crystals on matrix from San Benito County, 9 cm high. M.G. Walker collection.



Specimens of Spessartine from the Little 3 Mine, San Diego County. The largest specimen is 9 cm. M.G. Walker collection



Andradite, 11 & 8 cm, from Garnet Hill, Calaveras County. M.G. Walker collection.





Grossular, 12 & 7 cm, from the Coyote Mine, Inyo County. M.G. Walker collection.



Case presented by John Magnasco. Minerals from Lesser Known Localities in CALIFORNIA.



Geological Map of California in John Magnasco's Case.

Last, but not least, John Magnasco presented a superb case entitled "Minerals from Lesser Known Localities in California." The case included 34 specimens and two professionally executed placards, with the first placard a geological map of California and the second an explanation of his theme. Every specimen in the case was notable, and obviously represent a significant effort on John's part to assemble. John's display included an impressive 8.5 cm specimen of Gehlenite featuring a well-formed cream-tan 3.5 x 1.2 cm tetragonal crystal on matrix from an unnamed prospect near Lost Burro Spring, Panamint Mountains, Inyo County. John related at the symposium that this was likely the best specimen of Gehlenite from the location, and it most likely ranks with any specimen of the mineral from any locality. John also included a very fine 4 cm example of **Miargyrite**, as sharp equant black crystals of up to 4 mm on druzy Quartz on rock from the Kelly Mine, Red Mountain, Rand District, San Bernardino County. This specimen is one of the best I have seen from the locality, and is ex from the Al Ordway collection. Other specimens included an 8 cm specimen of Gillespite (for those red mineral fans), featuring rich red flat crystals and sections to 2.8 cm in **Sanbornite** from the Esquire #7 Claim, Big Creek, Fresno County, and self-collected by John in July 1984; a rich 7 cm specimen of black metallic foliated California Frankeite from the mineralogically diverse Kalkar Quarry. Santa Cruz, Santa Cruz County, ex from the Steve Pullman collection: a very aesthetic 8 cm specimen of Axinite-(Fe) featuring sharp 3 cm purplish-brown crystals on white Albite from near Coarsegold, Madera County, ex from the Al Ordway collection; and another excellent specimen of Axinite-(Fe), featuring transparent purple-brown triclinic 1 cm crystals on **Epidote** in a specimen 9 cm across from the Consolidated Tungsten Mine, Drum Valley, Tulare County, ex Mike Groben collection. Also from Drum Valley, from the Bill Waley Indian Allotment Tungsten Mine, John had an excellent 8 cm self-collected specimen of Wiluite featuring black 1 cm crystals in a group and a 9 cm self-collected group of green-brown Vesuvianite crystals of up to 3 cm in size. Following along with a demonstration of John's field collecting prowess was a

superb 9 cm specimen of **Molybdenite**, with platy metallic crystals of up to 3.5 cm on and in Quartz from the Moore Creek Mine, Calaveras County. John also had an essentially pure 12 cm specimen of bright-red micro crystallized-massive **Cinnabar** (from hanging wall), from the Gambonini Mine, Salmon Creek, Marin County, ex Bob Philips collection; a very good 9 cm specimen of lilac **Lawsonite**, as twinned crystals to 1.5 cm in **Muscovite** schist from Reed Station, Tiburon Peninsula, Marin County, ex Bob Philips collection; and an exquisite 14 cm specimen of **Andradite** variety topazolite, featuring sharp transparent yellow-brown crystals to 1.2 cm on black-green **Clinochlore** crystals from the Yellow Cat Mine, San Benito County, ex Mike Groben and Al McGuinness.



A superb specimen of Gehlenite, 8.5 cm, from an unnamed prospect near Lost Burro Spring, Panamint Mountains, Inyo County. John Magnasco collection.

A specimen worthy of to be on a magazine cover: Axinite-(Fe) on Albite, 8 cm, from near Coarsegold, Madera County. John Magnasco collection; ex Al Ordway collection.





A species typically seen from Bolivia, not California: Frankeite, 7 cm, from the Kalkar Quarry, Santa Cruz, Santa Cruz County. John Magnasco collection; ex Steve Pullman collection.



Miargyrite, 4 cm, black 5 mm crystals on Quartz, Kelly Mine, Red Mountain, Rand District, San Bernardino County. John Magnasco collection.



Molybdenite, 9 cm, Moore Creek Mine, Calaveras County. John Magnasco collection.



Cinnabar, 12 cm, Gambonini Mine, Marin County. John Magnasco collection; ex Bob Philips

Page 33

and the second s



Andradite var. Topazolite, 14 cm, Yellow Cat Mine, San Benito County. John Magnasco collection.



Vesuvianite, 9 cm, Bill Waley Indian Allotment Tungsten Mine, Drum Valley, Tulare County. John Magnasco collection.



www.PNWFM.org Editor, Beth Heesacker 4145 NW Heesacker Rd. Forest Grove, OR 97116 heesacker@coho.net

#### MINERAL MEETING CALENDAR

#### 2019:

Micro Mineral Study Group, May 11, 9:30 am to 4:30 pm Camas-Washougal Police Station (new date and new place) 2100 NE 3rd Ave Camas, Washington

Seattle Mineral Market, May 18-19 Lake City Community Center 12531 28th Ave NE Seattle, WA 98125

Northern California Mineralogical Association Symposium, May 31- June 2 El Dorado Community Hall 6139 Pleasant Valley Rd El Dorado, CA 95623

Washington Pass Cleanup, August

45th annual PNWFM Symposium, October 18-20 Red Lion Inn Kelso, WA

Micro Mineral Study Group, November 2, 9:30 am to 4:30 pm Camas-Washougal Fire Station #42 4321 NW Parker Street Camas, Washington

# ESwarf Systems

Makers of tools for mineral collectors, including:

- Rock splitters/trimmers in two sizes
- Microscope lights
- Photography lights NEW
- Spare parts of all kinds and repairs
- Custom equipment inquire
- Affordable prices, quality products and service

On the web at:

www.SwarfSystems.com