



PNWFM

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President's Message

Greetings, mineral lovers!

I have heard from a number of you that this year's symposium, "Minerals of the Pacific Northwest" was one of the best in recent memory. I agree! There are many people to thank for this success, starting with our cadre of excellent speakers: John Cornish, Rick Dillhoff, Julian Gray, Bob Jackson, Ray Lasmanis. Tony Potucek, Doug Toland, and Allan Young. We seldom have so many separate speakers, but this year's topic provided a wealth of local talent. There was much scurrying for pencil and paper as Ray detailed some of the places he'd be looking for the next interesting Northwest mineral discoveries!

Of course, it would not be much of a show if we didn't have exhibits, and this year's displays were appropriately excellent! The Belshazzar gold display with examples from Allan's talk was spellbinding! Look for Bob Meyer's article in this issue for descriptions of each case.

This year, the symposium was a co-event with the Northwest Micro-Mineral Study Group, who shared microscopes, photography demonstrations and free mineral specimens in the Pine room. Thank you to Beth Heesacker for organizing this!

As is the case every year, numerous volunteers helped with large and small tasks throughout the weekend. I always forget a few names, but these come to mind:

Scott Ankenbrand – Registration table, All things money related
Roger Beck – Setup
Bill and Diana Dameron – Setup and Registration Table
Barb and Julian Gray – Projector and General support
Beth and Paul Heesacker – Micro room organization and security
Karen and Gary Hinderman – Auctions, Facilities liaison, Storage Coordinator, Case Transportation and Setup.
Madison Hinderman – Auction helper
Bruce Kelley – Facebook presence, Procure awards, etc...
Al Liebetrau – Dealer liaison and Hotel room wrangler
Tom Menzel – Security, Setup
Doug Merson – Publicity, Packets, Setup
Lucie O'Clair – Auction helper
Bob Meyer – Display coordinator
Allan Young – Speaker recruitment

And probably half a dozen I'm forgetting... Please let me know if I left you off or got your tasks wrong.

Last, but certainly not least, I want to thank our symposium chair, John Lindell, who did an amazing job of making sure the tasks were getting done while making everyone feel unpressured. I wish I had your organizational skills, John!



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2017 Noble Witt Award

As Bob Meyer told me when he passed the presidential reins to me several years ago, the best part of being PNWFM president is the privilege of awarding the Noble Witt award at the annual symposium.

This year, I was honored to present the award to Douglas Merson for his excellent photographic contributions to the documentation of micro-minerals and his consistent service to PNWFM. Thank you, Doug, and congratulations!

Member Participation: Even more ways to get involved!

Write an article or send in a few photos for the newsletter. Going to a Tucson? 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, Chuck Hobart, Al Liebetrau, Bob Meyer, Don Newsome, Lanny Ream, Alexander Schauss, and myself for providing newsletter content so far this year.



Plan to attend our 2018 symposium:

October 19-21, 2018 – **Minerals of California**

"Like" our official Facebook page: facebook.com/PNWFM

Visit the Rice NW Museum of Rocks and Minerals in Hillsboro, OR.

PNWFM members get free admission and store discounts. ricenorthwestmuseum.org

Join the PNWFM board of directors! 2018 will be an election year, so contact me if you are interested in filling a role in the leadership of the club!

The national Friends of Mineralogy board has openings for directors. Do you wish to be involved in FM at a higher level? Contact me and I'll get you in touch with them.

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

Until next time,

-- Bruce Kelley, President, PNWFM

PNWFM Meeting Minutes

October 15, 2017

PNWFM Minutes

President Bruce Kelley called the meeting to order with 18 members present. He thanked all involved in making this another successful symposium. Minutes were read from the 2016 symposium meeting. Tom Menzel asked that the statement that he would write up instructions for putting cases together be struck from the minutes (done).

The current membership list and distribution of newsletters was discussed. Scott Ankenbrand and Beth Heesacker have been working hard to keep the list up to date. Gary Reid and Arlene Handley have not been receiving newsletters. Their newsletters need to be mailed (not emailed). The membership has asked that the symposium registration form be mailed (along with email) to all members, as well as a separate distribution list of former members, attendees, speakers, etc.

We had 86 registered attendees at the symposium with fifteen being new. Advertising was more widespread with an advertising budget of \$189. Using the square has been a success, but we lose 3% per \$100. We had more satellite dealers this year than ever before. The hotels 80 meal limit for dinners was a bit of a hassle, but we adjusted by having a few people give up their dinner tickets to others (thanks to the few who did this). This year's registration form and procedures went through several changes. Bruce apologized to Al Liebetrau, dealer liaison, for the frustrations this caused with satellite dealers and record keeping. Al has asked if the satellite dealer's payment on the square could be linked to a form which would help him keep his records straight. Beth thanked our group on behalf of the Micro-Mineral Study Group for a successful collaboration. She also thanked Bruce for giving a great presentation Friday evening. The live auction raised \$3575.

The 2018 Symposium will be held the third full weekend in October: October 19, 20, and 21. We voted to have Minerals of California be our theme. We voted to close the main floor at 9 pm at the request of our main floor dealers. Bill

Dameron asked that we make it clear that there are only 80 meals available for dinner. It was suggested that we utilize the extra floor space in the main room by inviting a fifth dealer who is very different than the other four such as The Book Guy. The board will discuss this further.

Good of the Order: Vote to continue with Rice Museum membership passed. Next year will be an election year. Who will be our next set of officers? Will it be you?

Next membership meeting will be at the Seattle Mineral Market show in May. Soon after the meeting the symposium committee will have a phone conference.

Meeting adjourned.

Karen Hinderman, Secretary

Mineralogical Record Supplement

Wendell Wilson has approved the expansion of the area for a MR Supplement that was discussed at the last symposium. It will now be called a "Pacific Northwest" Supplement and will include the following states and provinces; Alaska, Alberta, British Columbia, Idaho, Montana, Oregon, and Washington. If you are interested contact Wendell or me and I will make sure you are on the list of those interested.

Don Newsome
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Auction News By Karen Hinderman

Wow! Our annual live auction earned \$3575.00, all because of you. You were generous with your donations, and then you were generous with your purchases. I really can't ask or expect anything more than that.

There are a few people that I need to thank publicly. First and most importantly, is my husband Gary. He totally runs the silent auction so that I can focus on the live auction. With t-shirt donations from John Lindell, Mineralogical Record donations from Ray Lasmanis and Lee Reichel, a plethora of mineral and fossil donations from Wes Gannaway (so happy to see you back with us Wes), annual donations of beautifully polished specimens from Dick Rantz, and many, many other donations; Gary keeps the silent auction moving and grooving. Then there are those of you who frequent the silent auction to make it worth our time and efforts. Thank you bidders!

The live auction would not be as entertaining without my co-auctioneer, Sean Finneson. Sean has brought new energy and humor to the position. I am honored to be a co-auctioneer alongside him. Finally, I would like to thank our assistants: Lucie O'Clair, Madison Hinderman, and Wes Gannaway. Your assistance is much appreciated.

As you go through your collections this winter and field collect next spring, summer, and fall remember to put aside a few items to donate at next year's symposium. Until then, keep on rockin'.



Symposium Report By Beth Heesacker

I was going to write an article on the Symposium but I thought that getting Bob's article in this issue on the displays took precedence so I will save my report for the next issue. But I did want to include one picture that I thought would be of interest to most members. We had the honor of the presence of Ray Lasmanis and his insight into where to look next for more mineral discoveries in the Pacific Northwest. Thanks Ray!!

Displays at the 2017 PNWFM Symposium: Minerals of the Pacific Northwest

By Bob Meyer



Scott Werschky's case, featuring three Exquisite Native Gold Specimens from the Belshazzar Mine, Quartzburg District, Boise Co., Idaho, USA, and accompanied by a selection of miner's candlestick holders.

*The 2017 PNWFM Annual Symposium featured 12 displays, the topics of ten of which aligned with the symposium theme, *Minerals of the Pacific Northwest*. Three of the cases concentrated on a single PNW locale. 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 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.*

Scott Werschky presented a case containing three mineral specimens and seven examples of antique miner's candlestick holders. The three specimens were of Native Gold from the Belshazzar Mine, Quartzburg District, Boise Co., Idaho, USA. Each of the specimens was obtained from the mine dump by the use of metal detectors. From left to right, the first specimen—*The Bridge of Gold*—featured an outstanding stout stringer of wire gold in a form reminiscent of *flos ferri*, bridging a group of milky Quartz crystals, 16 cm across. The middle specimen featured a few thick match-like wires, with a group of wire curls surmounting earthly limonite on crystalline milky quartz and was 6 cm tall. The third specimen, reported to weigh 34 ounces in the talk on the locale, was a magnificent 12.5 cm specimen of wire gold with Quartz.



The *Bridge of Gold*, 16 cm, from the Belshazzar Mine, Boise Co., Idaho, USA. Scott Werschky collection.



Native Gold, 12.5 cm, from the Belshazzar Mine, Boise Co., Idaho, USA. Scott Werschky collection.



Karen and Gary Hinderman's case of specimens from Walker Valley, Skagit County, Washington, USA. Idaho, USA. Scott Werschky collection.

Like Scott Werschky, Karen and Gary Hinderman presented a display featuring specimens from just one Pacific Northwest locality. Walker Valley in Skagit County, Washington is a locality well-known to collectors, particularly those from Northwestern Washington. Karen and Gary's case held 16 specimens, including an excellent 17.5 cm specimen consisting of off-white bladed rhombohedral Calcite forming roughly circular aggregates averaging 4 cm across on pale amethystine drusy quartz in a geode in andesite; an impressive 35 cm specimen of amethyst crystals averaging 2 cm across in an andesite geode section, and a 9 cm specimen featuring a 3.5 cm bladed colorless calcite crystal occupying a drusy quartz-lined vug. Collectors who have visited Walker Valley, especially lately, will certainly recognize the level of effort that would be required to obtain any of the specimens in Karen and Gary's case. Indeed, it is doubtful that specimens of this caliber will ever again be collected there considering the state of the locality and the high quality of the specimens here presented.



Calcite Aggregates on Amethyst, 17.5 cm across, Walker Valley, Skagit Co., Washington. Hinderman collection.

Amethyst plate, 35 cm across, Walker Valley, Skagit Co., Washington. Hinderman collection.





Bob Meyer's case, entitled Minerals of the Pacific Northwest.

In line with the symposium theme, Bob Meyer put in a display entitled Minerals of the Pacific Northwest, comprised of 31 thumbnail to large cabinet specimens representing localities in British Columbia, Washington, Oregon, Idaho, and Montana. Specimens included three excellent examples of Quartz variety amethyst from Green Ridge, King County, Washington, USA; the first a lustrous short stout amethyst-tipped scepter crystal 8 cm high; the second, a 22-cm high parallel group of two amethyst-tipped scepters; and the third a 10-cm group of two stout amethyst crystals with associated colorless crystals.

Other specimens included a Mandarinoite specimen, featuring rich small green crystals with Naumannite, 12 cm across, from coordinates 45.475N, 98.030 E, 6316 foot bench, Sommercamp Pit, De Lamar mine, Owyhee Co., Idaho, USA—the finest specimen from the original find of the species by Ray Lasmanis, and ex from his collection; the best specimen found from the Van Silver deposit, near Whistler, B.C., Canada of the rare silver sulfosalt mineral, Fizelyite—with sprays of black metallic crystals of up to 1 cm in seams in rhyolite, 8 cm high, collected by Ty Balacko, ex from the Rob W. M. Woodside collection; a 9 cm specimen of Mesolite as divergent sprays of stout terminated crystals on matrix from the Skookumchuck Dam, Buxton, Thurston Co., Washington, USA, collected in the 1960's by Al McGuinness (one of three specimens from this classic PNW locale displayed at the symposium); an 8 cm specimen of Bournonite as crystals of up to 1 cm on small Quartz crystals from the Coney Basin Mine, Grotto, Miller River District, King Co., Washington, USA, collected by Bart Cannon and ex from the Charles M. Shaw collection; a 2.3 cm doubly-terminated crystal of Veselyite with Pseudomalachite from the Black Pine Mine, Granite Co., Montana, USA; a 10 cm specimen of Biggs Jasper featuring a 1.3 cm vug containing silky sprays of the rare hydrocarbon mineral Weddellite from Biggs, Wasco Co., Oregon, USA and collected by Noble V. Witt; and a superb specimen of Caledonite, 9.5 cm across, featuring small bright blue crystals richly lining pockets in rock from the K-7 Tunnel, Challis, Bay Horse District, Custer Co., Idaho, USA, ex from the collection of and collected by Bart Cannon.



Three specimens of Quartz from Green Ridge, King Co., Washington. Robert O. Meyer collection.
Ex: Paul Rhoades collection.

Rhodochrosite with Quartz, 10 cm, from the Emma mine, Butte Montana. Robert O. Meyer collection, ex: Lazard Cahn collection (1920s).



Rhodochrosite on rock, 19 cm, from a rare PNW locale, the True Fissure mine, Philipsburg, Montana. Robert O. Meyer collection, ex: Gil Griffin & Al McGuiness specimens.



**Mesolite sprays on matrix, 9 cm, Skookumchuck Dam, Bucoda, Thurston Co., Washington.
Robert O. Meyer collection, collected in the 1960s by Al McGuiness.**



Wes Gannaway's case, "Minerals from Washington Locales"

Wes Gannaway presented a case consisting of 31 specimens from the Washington. Specimens included an extremely fine example of the mineral Molybdenite—a gray metallic 9 cm crystal on matrix—12 cm high overall from the Crown Point Mine, Railroad Creek, Railroad Creek District, Chelan Co., Washington, USA; a 3 cm specimen of Beryl variety Aquamarine—a 1.5 cm crystal on matrix—from the Cannon Mine (Railway Dike), Chewelah, Chewelah District, Stevens Co., Washington, USA; an interesting freeform nugget of Bornite, 8 cm across, from the Sunset Mine, Baring, Index District, Snohomish Co., Washington, USA; and a 7 cm specimen of Molybdenite with the rare yellow secondary mineral Ferrimolybdenite again from the Crown Point Mine, Railroad Creek, Railroad Creek District, Chelan Co., Washington, USA.



Molybdenite, 12 cm, from the Crown Point Mine, Chelan Co., Washington. Wes Gannaway collection.



Alex Homenuke's case: BC and Yukon minerals

Alex Homenuke presented a very thoughtful case consisting of 66 specimens and 5 related items from localities in British Columbia and Yukon territory. The case was one that required study to fully appreciate. Among the pieces were a number of sub-collections that represent some of Alex's interests. Special areas of interest included jade, featuring pre-European Fraser River Alluvial Nephrite mother stone and chisel artifacts; a 25 cm piece of schistose Nephrite with inclusions of coarser Tremolite from the Polar Jade mine, 30 miles east of Dease Lake, BC, Canada; a lovely jade carving by David Wong; an excellent green 8.5 cm cube of gem grade Nephrite with inclusions of Uvarovite from the Cassiar mine, BC, Canada. Other suites included seven specimens, including excellent examples of Silver and Acanthite, from the Highland Bell mine, near Beaverdell, BC, Canada; a set of five specimens from the Bluebell mine, Riondell, BC, Canada including an excellent 12 cm specimen of Quartz with Sphalerite; a suite of seven specimens from Rapid Creek/Big Fish River, Yukon, Canada; and six specimens from Keno Hill/Galena Hill, Yukon, Canada, including an excellent iridescent hexagonal group of Polybasite crystals 2 cm across from Stope 302, Husky mine, a 1.8 cm doubly-terminated crystal of Stephanite, also from Stope 302, and an excellent 4.5

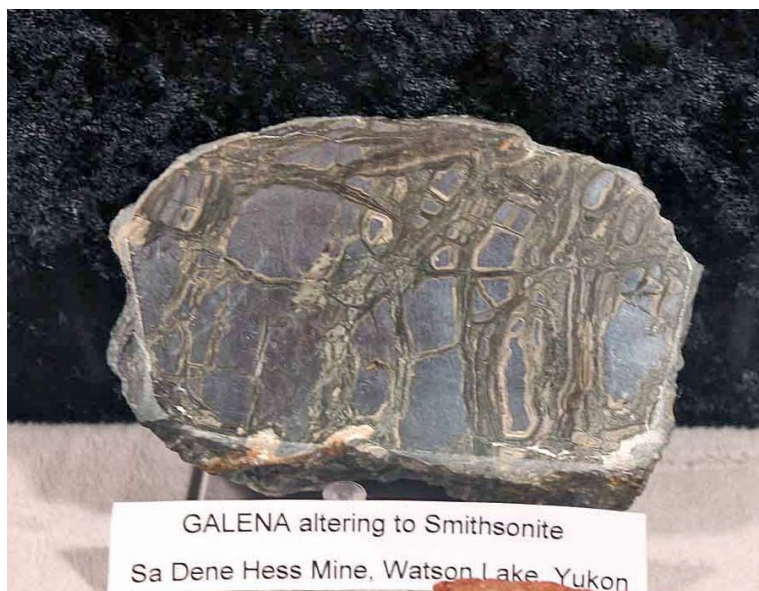
cm specimen of Anglesite on Galena with yellow Hawleyite. Other specimens included an interesting 12 cm sliced specimen of Galena altering to Smithsonite displaying an interesting pattern from the Sa Dene Hess mine, Watson Lake, Yukon, Canada; and a superb specimen, self-collected by Alex in 1962, of Joseite, 7 cm across and featuring a 0.7 cm single crystal from Glacier Gulch, near Smithers, BC, Canada.



A portion of the Jade suite in Alex Homenuke's case. The Mother Stone is 23 cm long.



The suite of specimens in Alex Homenuke's case from the Bluebell Mine, Riondell, BC. The Quartz on Sphalerite is 12 cm across.

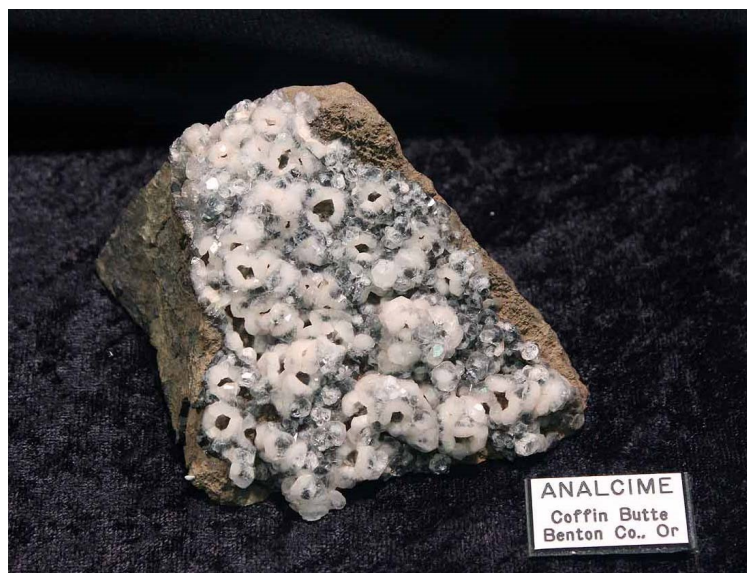


Galena altering to Smithsonite, 12 cm across.
Alex Homenuke collection.



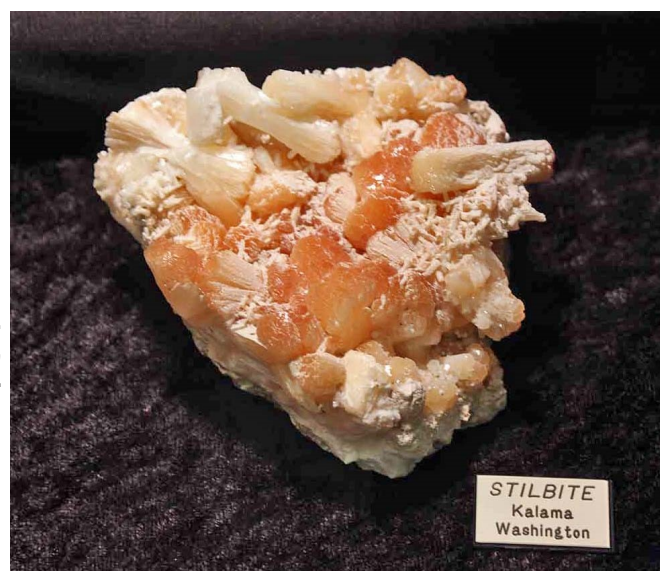
The Rice NW Museum of Rocks & Minerals case featuring Oregon and Washington zeolites and an Apophyllite recently donated from the collection of Mike and Betsy Groben.

The Rice Northwest Museum of Rocks and Minerals blessed symposium attendees with two excellent cases. The first contained a suite of ten specimens recently donated to the museum from the collection of Mike and Betsy Groben. There were ten specimens in the case ranging in size from a miniature to large cabinet. All of the specimens were from localities in Oregon and Washington, and all were zeolites aside from one specimen of Apophyllite. Each of the specimens was excellent, but especially noteworthy was an exquisite 15 cm specimen of pale pink Stilbite from Lane County, Oregon, USA, featuring a 6 cm stellate group protruding very esthetically from the matrix; a very fine specimen of Analcime as spheroidal clusters or ring-like groups as casts after Natrolite, 12 cm across, from Coffin Butte, Benton County, Oregon, USA; and an excellent 12 cm specimen of cream to orange colored Stilbite crystals from Kalama, Washington, USA.



Analcime Crystals as casts after Natrolite, Coffin Butte, Benton Co., Oregon, 12 cm. Rice NW Museum of Rocks and Minerals collection, ex Mike and Betsy Groben collection.

Stilbite, 12 cm, from Kalama, Washington, USA. Rice NW Museum of Rocks and Minerals collection, ex Mike and Betsy Groben collection.



The Rice Northwest Museum of Rocks and Minerals second case.

The Rice Northwest Museum of Rocks & Minerals' second case contained 12 outstanding specimens from localities in Oregon, Washington, Idaho, Montana, and Alaska. Specimens included what is one of the finest specimens of Molybdenite in existence. This specimen, from the Crown Point Mine, Railroad Creek, Railroad Creek District, Chelan Co., Washington, USA features a sharp hexagonal 10 cm slightly offset crystal group on a 13-cm matrix. It was a great pleasure to see this specimen from the original Richard and Helen Rice collection. Other pieces included a spectacular 30 cm specimen of Epidote with Calcite and Quartz from Green Monster Mountain, Prince of Wales Island, Ketchikan District, Prince of Wales-Outer Ketchikan Borough, Alaska, USA featuring almost black-green lustrous Epidote crystals to 10 cm accompanied by doubly-terminated white Calcite crystals to 10 cm; an impressive green-yellow plate of Meta-autunite, 37 cm across, from the Daybreak Mine, Mount Kit Carson, Spokane Co., Washington, USA featuring crystals of up to 7.5 cm in size (original Richard and Helen Rice collection); a superb specimen of Covellite from the Leonard Mine, Butte, Silver Bow Co., Montana, USA measuring 9 cm across and consisting of a group of two stout hexagonal crystals with unusually thick prism faces (up to 1.5 cm thick). The color of the specimen retains some of the indigo-blue metallic color indicative of Covellite, but much of the specimen is black, and so is likely at least superficially altered to Chalcocite or Djurleite. This is also an extremely fine and unusual specimen. Those interested in viewing another fine Leonard mine Covellite with thick prism faces might wish to visit the Canadian Museum of Nature <https://www.mindat.org/photo-246414.html>.

Other specimens included a very attractive Analcime with Natrolite, 25 cm across, from the Two Hug Quarry, Kings Valley, Benton Co., Oregon, USA with white to colorless trapezohedra to 2.5 cm and white acicular-radiating puff-balls of Natrolite studding a dark clay layer on rock, donated by Rudy Tschernich; a very fine specimen of Mesolite with Stilbite and Calcite, 10 cm across, from the Skookumchuck Dam, Bucoda, Thurston Co., Washington, USA, featuring four divergent sprays of Mesolite crystals of up to 8 cm in length on rock, donated by Rudy Tschernich (the second of three Skookumchuck Mesolite specimens at the symposium); a 17 cm specimen of bright orange arsenian Pyromorphite as lustrous Campylite-style crystals of up to 0.8 cm in size on matrix from the Bunker Hill Mine, Kellogg, Coeur d'Alene District, Shoshone Co., Idaho, USA (original Richard and Helen Rice collection); a lovely 7.5 cm high specimen of crystallized leaf Gold from the Liberty Mine, Liberty, Swauk District, Kittitas Co., Washington, USA; three very fine sharp pink crystals of Zektzerite, ranging in size from 2.5 to 3.0 cm in size, from "Mazama," Okanogan Co., Washington, donated by Rudy Tschernich; and a superb 12 cm specimen of Cavansite as bright blue balls of radiating crystals, averaging 1.5 mm in size, studding a flat seam on rock from the co-type locality for Cavansite, Gordon Gulch, Owyhee Dam, Lake Owyhee State Park, Malheur Co., Oregon, USA, donated by Rudy Tschernich.

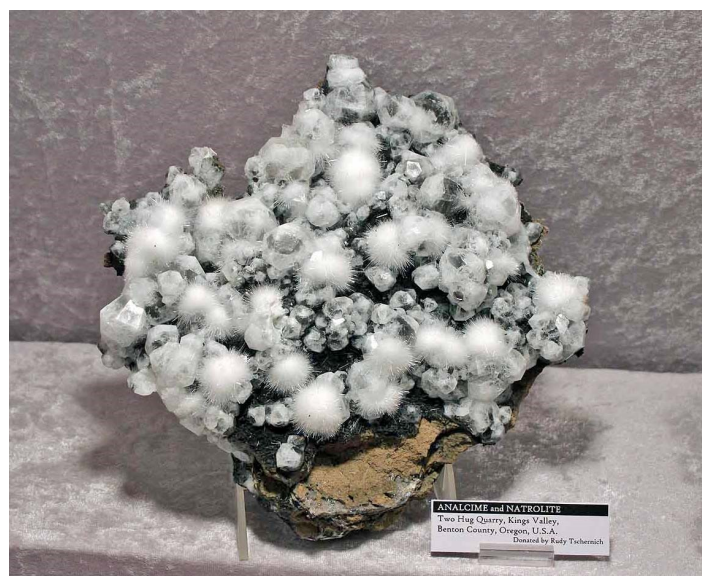


Molybdenite, 13 cm, from the Crown Point Mine, Railroad Creek, Railroad Creek District, Chelan Co., Washington, USA. Rice NW Museum Specimen.

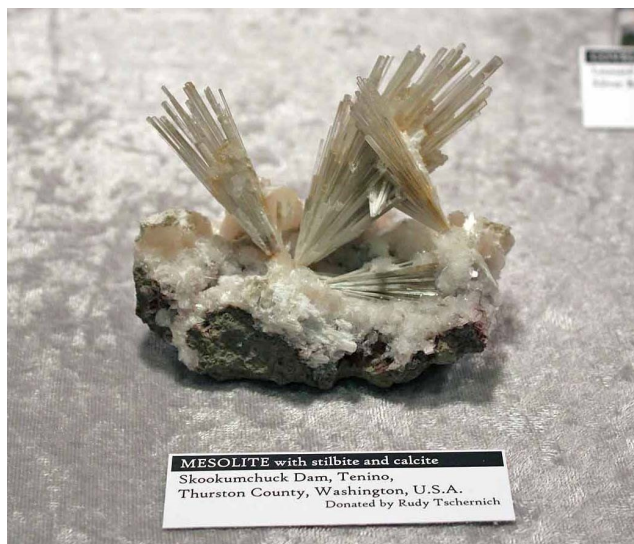


Leaf Gold, 7.5 cm, Liberty Mine, Liberty, Swauk District, Kittitas Co., Washington, USA. Rice NW Museum Specimen.

Meta-autunite, 37 cm, from the Daybreak Mine, Mount Kit Carson, Spokane Co., Washington, USA. Rice NW Museum Specimen.



Analcime & Natrolite, 25 cm across, from the Two Hug Quarry, Kings Valley, Benton Co., Oregon, USA. Rice NW Museum Specimen.



Esthetic Sprays of Mesolite with Stilbite & Calcite, 10 cm across, from the Skookumchuck Dam, Bucoda, Thurston Co., Washington, USA. Rice NW Museum Specimen.

MESOLITE with stilbite and calcite
Skookumchuck Dam, Tenino,
Thurston County, Washington, U.S.A.
Donated by Rudy Tschernich

A superb group of Covellite crystals, superficially altering to Chalcocite or Djurleite, 9 cm, from the Leonard Mine, Butte, Silver Bow Co., Montana, USA. Rice NW Museum Specimen.



COVELLITE
Leonard Mine, Butte,
Silver Bow County, Montana, U.S.A.
Original Rice Collection



Jeffrey M. Schwartz's case containing an excellent suite of specimens from the Pend Oreille Mine, Boundary Dam, Metaline District, Pend Oreille Co., Washington, USA.

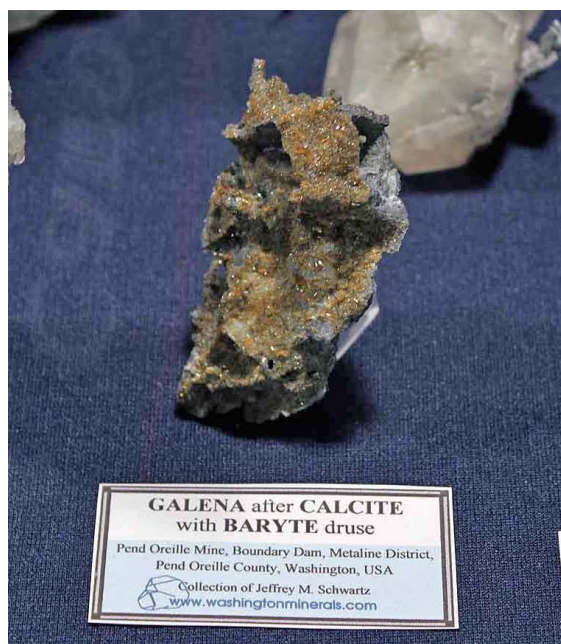
Jeff Schwartz treated symposium attendees to the chance to see an impressive suite of minerals from a single PNW locale. The specimens, all from the Pend Oreille Mine, Pend Oreille Co., Washington, USA, were acquired by Jeff in 2009 and were the 50 plus year collection of Jim Browne, mine geologist during the last decade of mining activity in the Josephine Horizon, the ore horizon that hosted the mineral specimens. The case contained 31 specimens, six photos, and a placard that outlined the geology of the deposit and the source of the specimens. Large pockets of crystals were encountered during mining, and specimens from the mine, typically labeled Metaline Falls, Washington, were not uncommon in the 1960s and 1970s. The species most often seen were Calcite, occurring in colorless to pale yellow flattened rhombohedral crystals often edge bounded by first order hexagonal prisms $\{10\bar{1}0\}$, and Palygorskite, occurring in light gray tangled mats of crystals termed “mountain leather.” Occasionally, one would also see Barite, in lustrous but small golden crystals. I visited an establishment called Christ’s Rock Shop in Cotati, California when I was child in the early 1970’s. The shop had a large number of specimens from Metaline Falls, including some large and very fine pieces. Jeff’s case contained the first such display that I have seen since that time and his case surpassed what I had seen as a child in many ways. The case contained outstanding examples for the locality of Calcite, Palygorskite, and Barite, and he also had specimens of Pyromorphite (and a photo-from the Grandview mine—a species not reported for the area on Mindat), Sphalerite, pyrobitumen, Pyrite, Dolomite, Galena, and Marcasite. The specimens included a very nice Palygorskite as an esthetic tangled mass, 25 cm long, and studded with Calcite crystals to 4 cm across; a 45 cm specimen of Palygorskite as large sheets of matted fibrous crystals; a 12.5 cm specimen of white Palygorskite coating rock that was in turn richly studded with small orange-golden Barite crystals; and an 8 cm specimen of Galena forming casts after Calcite and coated by druzy orange-golden Barite crystals. My favorite piece was a 15-cm group of Calcite crystals trailing off stringers, like a jellyfish, of Palygorskite that in turn hosted pendants of small transparent Calcite crystals.



Calcite on Palygorskite, 25 cm, Jeffrey M. Schwartz collection. Ex: Jim Browne collection.



Barite on Palygorskite, 12.5 cm. Jeffrey M. Schwartz collection. Ex: Jim Browne collection.



Galena casts after Calcite with Barite druse. Jeffrey M. Schwartz collection. Ex: Jim Browne collection.



**A 15 cm Calcite group trailing off tendrils of Palygorskite
studded with Calcite crystals. Jeffrey M. Schwartz collection.
Ex: Jim Browne collection.**



John Lindell's case featuring Zeolites of the Northwest.

John Lindell presented a case that represents one of the strongest area for minerals found in the Pacific Northwest: Zeolites. The case included 44 specimens representing this group of minerals. Of special note was a 20 cm feather-shaped specimen of Brewsterite and Calcite as druzes of white-colorless crystals on rock from Yellow Lake, British Columbia, Canada, collected on 3/20/17 by John Lindell; a superb 8 cm specimen of Mesolite as divergent radiating sprays of white-colorless terminated crystals from the Skookumchuck Dam, Bucoda, Thurston Co., Washington, USA (the third Skookumchuck Mesolite on display at the symposium this year); also from the Skookumchuck Dam locality, a 3.5 cm specimen of Analcime, as a single white trapezohedron on a bit of matrix; and an impressive 25 x 25 cm specimen of Scolecite as divergent sprays of stout white crystals of up to 12.5 cm in length from the South Fork of the Toutle River, Cowlitz County, Washington, USA, collected on 8/20/90 by John Lindell. John also included small specimens of three type locality Zeolite species from the Pacific Northwest, accompanied by three small photographs of the PNW collectors for which the species were named. This included Cowlesite, named for John Cowles; Boggsite with a photograph of Bob Boggs (named for Robert M. (Bob) Boggs & Russell C. Boggs); and a Tschernichite, named for Rudy Tschernich.

Brewsterite with Calcite, 20 cm, Yellow Lake, British Columbia, Canada. John Lindell collection.

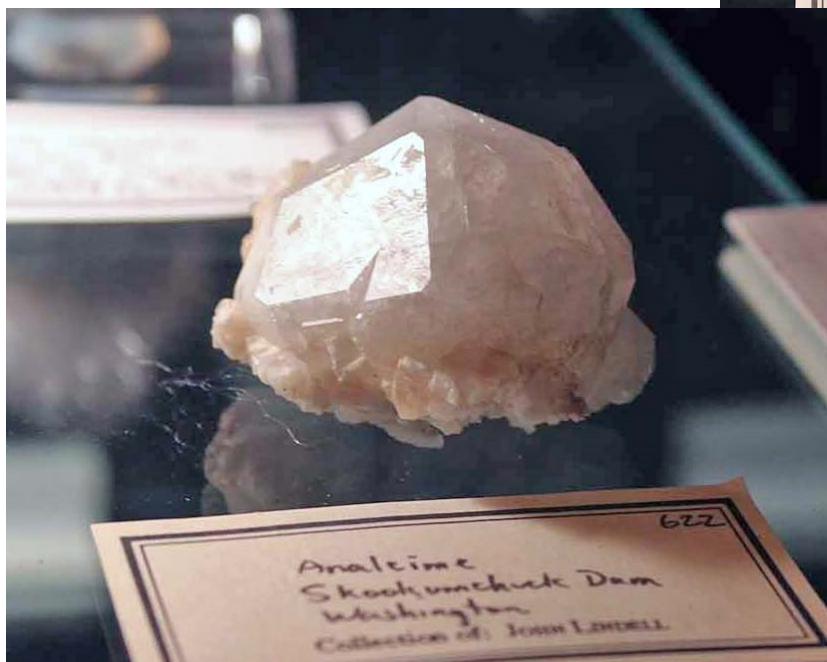




Scolecite, 25 cm, S. Fork, Toutle River, Cowlitz Co., Washington. John Lindell collection.



Mesolite, 8 cm, Skookumchuck Dam, Bucoda, Thurston Co., Washington. John Lindell collection.



Analcime, 3.5 cm, Skookumchuck Dam, Bucoda, Thurston Co., Washington. John Lindell collection.



Allan Young's case—Minerals of Idaho.

Allan Young put in a competition caliber display consisting of 40 thumbnail-sized specimens of excellent quality representing localities in Idaho. In addition, Allan included three stock certificates for mining companies in Idaho. One of the stock certificates was from the Blackbird Mining Company, and specimens from the Blackbird Mine, Lemhi Co., Idaho, USA were well-represented in Allan's case. Among the Blackbird specimens was a superb completely transparent green 2.5 cm long terminated crystal of Vivianite; an excellent 2 cm crystal, with a small side-car crystal, of dark green Ludlamite; a lovely 2 cm specimen of electric pink-red acicular Erythrite; and a 2-cm sculptural specimen of Copper with Cuprite.

The second stock certificate was from the De Lamar Mining Co., Ltd, and Allan included specimens from that locality as well. Specimens from the De Lamar Mine, Owyhee Co., Idaho, USA included an excellent 2.5 cm specimen of Chlorargyrite, consisting of sharp, equant somewhat skeletal purple-gray crystals of up to 1.2 cm in size; a 2.8 cm specimen of Naumannite, as an egg-shaped group of 5 mm cubic pseudomorphs after Acanthite; and a 2.8 cm specimen of Silver, as a group of dark wire forms. The third mine stock certificate was from the Idawa Gold Mining Company, and that locality was represented by an exquisite 3 cm specimen of crystallized wire Gold from the Belshazzar Mine, Quartzburg District, Boise Co., Idaho, USA. Another specimen that requires special mention was a 2.3 cm tall terminated specimen of Beryl, variety Aquamarine, from Centerville, Boise Co., Idaho, USA. The specimen consists of a sharp, mirror-faced simple hexagonal prism, terminated by both pyramid and pinacoid, that is transparent, gem-grade, and is a nice medium-blue in color. This is a truly outstanding PNW specimen.



Vivianite, 2.5 cm, Blackbird Mine, Lemhi Co., Idaho.
Allan Young collection.



Gold, 3 cm, Belshazzar Mine, Quartzburg District,
Boise Co., Idaho. Allan Young collection.



Beryl variety Aquamarine, 2.3 cm, Centerville, Boise
Co., Idaho. Allan Young collection.

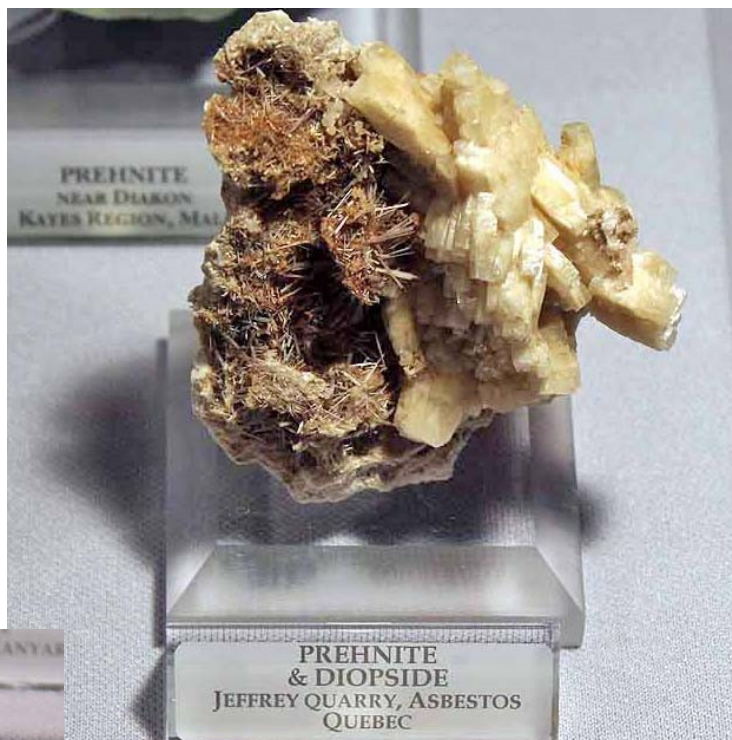


Bill and Diana Dameron's case featuring World-Wide specimens of Prehnite

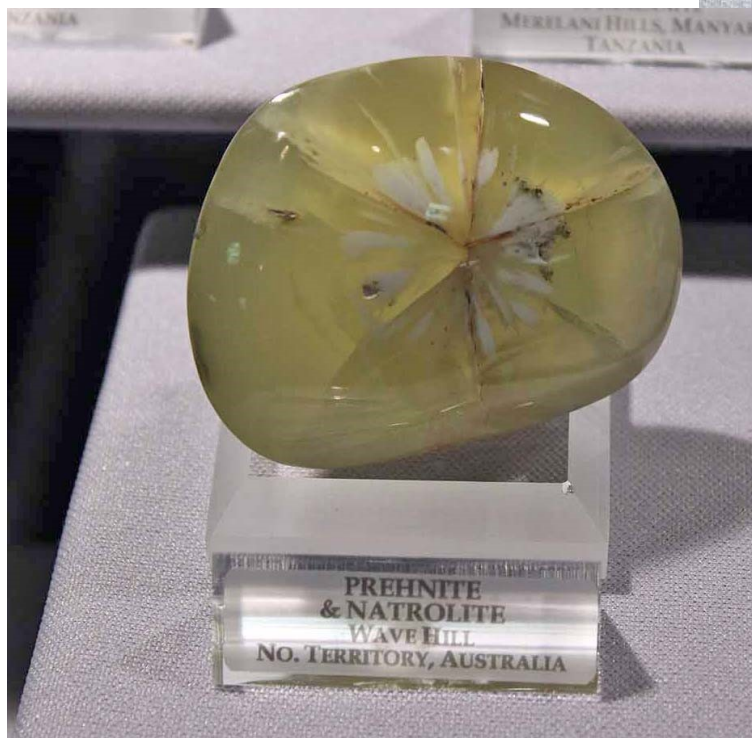
Bill and Diana Dameron presented a case containing 33 excellent specimens of the mineral Prehnite from around the world, or more properly 32 specimens and one necklace/pendant featuring a specimen of Prehnite. Bill and Diana's case was one of two at the symposium this year that did not pertain to the symposium topic, but that should not be interpreted to diminish from their case in any way. In actuality, it is hoped that symposium attendees took the chance to appreciate this very fine case and the variety of habits, colors, and associations that Prehnite exhibits from around the world. The specimens on display included an outstanding 8 cm specimen of curved buff-tan crystals forming bird's nest shaped aggregates (commonly known as "rope-knot") with tiny Quartz crystals inside from Imilchil, Er Rachidia Province, Drâa-Tafilalet Region, Morocco; a 8 cm tall specimen of the classic blocky prismatic flat-terminated crystals that were found many years ago at the Jeffrey Mine, Asbestos, Québec, Canada, as buff-colored crystals to 5 cm in length with needle like crystals of light brown Diopside; a 7 cm specimen consisting of two sharp, lustrous, blocky pale green crystals also from the Jeffrey Mine; an excellent polished 7 cm specimen of translucent yellow-green Prehnite hosting an inclusion of Natrolite forming a dramatic stellate pattern from Wave Hill, Victoria-Daly Region, Northern Territory, Australia, a very nice 10 cm specimen of cream-colored crystallized botryoidal Prehnite with native Copper from Keweenaw County, Michigan, USA; and a superb 8 cm specimen hosting a sea-green (with a hint of blue) lustrous curved group of Prehnite crystals perched on cream-colored Microcline crystals and associated with a lustrous transparent slightly smoky Quartz crystal from the Goboboseb Mts, Brandberg Area, Erongo Region, Namibia. Finally, Bill and Diana showed an array of colors that Prehnite can occur in with a group of specimens from the Merelani Hills (Mererani), Lelatema Mts, Simanjiro District, Manyara Region, Tanzania. In that suite, Bill and Diana had specimens that were lilac, white-lilac zoned, pale yellow, yellow, and one that was dark lemon-yellow.



"Rope-Knot" Prehnite with Quartz, 8 cm, Imilchil, Er Rachidia Province, Drâa-Tafilalet Region, Morocco. Bill and Diana Dameron collection.



Prehnite with Diopside, 8 cm, from the Jeffrey Mine, Asbestos, Québec, Canada. Bill and Diana Dameron collection.

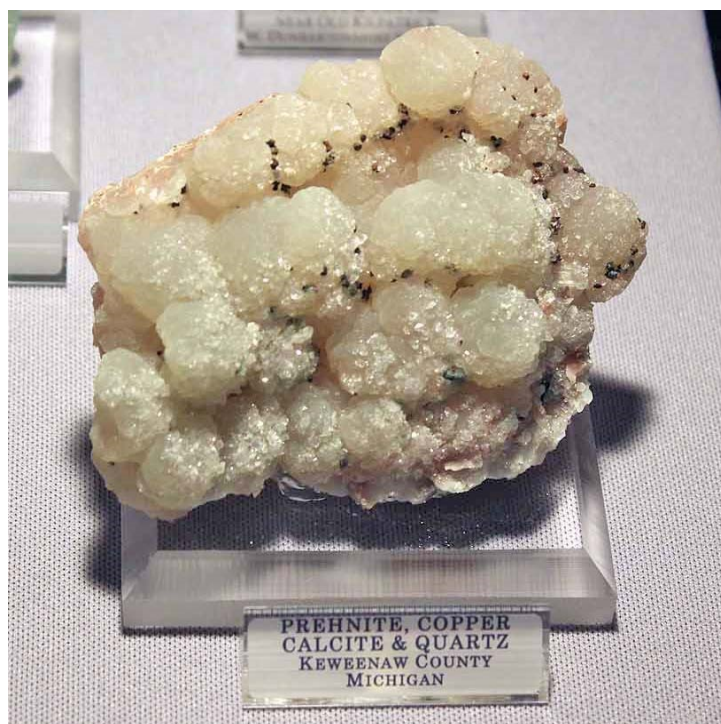


Prehnite with inclusions of Natrolite, 7 cm, Wave Hill, Victoria-Daly Region, Northern Territory, Australia. Bill and Diana Dameron collection.



Prehnite with Smoky Quartz on Microcline, 8 cm, Goboboseb Mts, Brandberg Area, Erongo Region, Namibia. Bill and Diana Dameron collection.

Prehnite with Copper, Keweenaw County, Michigan, USA. Bill and Diana Dameron collection.





Si & Ann Frazier's case, entitled "Scepters".

Si and Ann Frazier treated symposium attendees to a second consecutive year of cases featuring unusual forms of the mineral Quartz. In 2016, Si and Ann had a case filled with Japan-Law twins. A photo of that case is included at the end of this article. This year, the topic was "Scepters." After two such outstanding years, we wonder what they might treat us to next year. This year their case contained 57 specimens of sceptered Quartz from different localities and exhibiting a variety of different forms and colors. In addition, Si and Ann included a book, *Zepterquarze* and two very interesting placards with information concerning scepters. In one, Si and Ann speculate concerning the number of localities that have produced scepters, and mention both Bob Jackson's list of about 100 scepter-producing localities published in a 1988 issue of *Mineral News*, and the over 100 localities, with very little overlap, in Prof. Dr. Gerhard Niedermayr's 1995 *Zepterquarze*. The other placard continues this discussion, and then goes on to discuss sceptering in other species. One scepter occurrence that Si and Ann mention as a collector's dream are the very rare and very tiny sceptered Montroydite that have occurred at Terlingua, Brewster County, Texas. They mention a crystal pictured in United States Geological Survey, Bulletin 405, *The Mercury Minerals from Terlingua, Texas*, by W. F. Hillebrand and W. T. Schaller, (1909), as "being probably the most complex and interesting scepter crystal ever recorded by science." Si and Ann did not include the picture they referenced in their case, but the publication is available on-line, <<https://pubs.usgs.gov/bul/0405/report.pdf>> and the image is shown on the right.

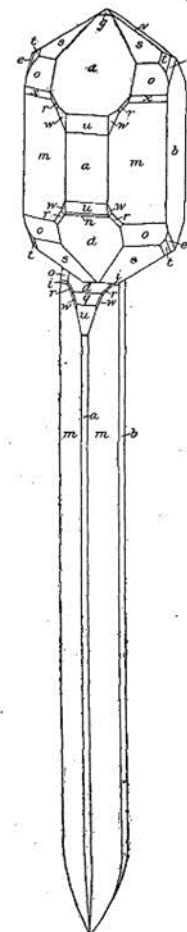
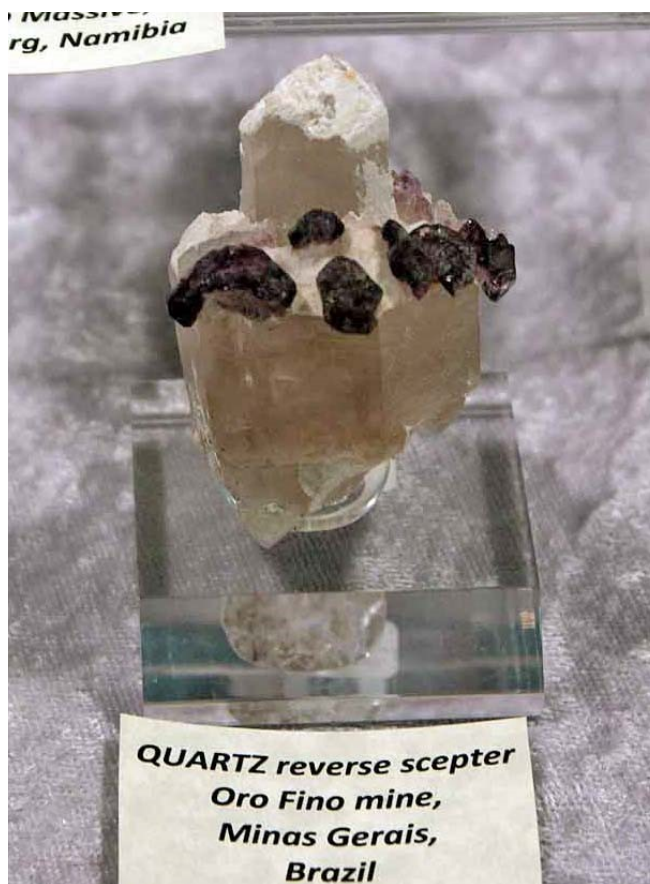


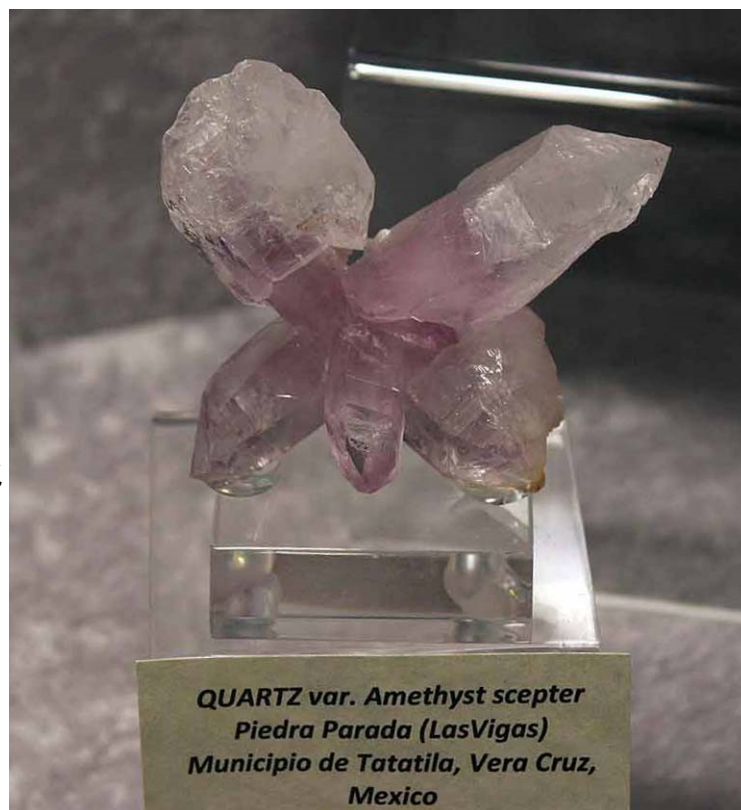
FIGURE 21.—Montroydite, scepter crystal (No. 24): $g\{201\}$, $n\{302\}$, $so\{311\}$.

Specimens in Si and Ann's case included an excellent 6 cm reverse scepter Quartz, consisting of a lightly smoky stout lower crystal with a smaller diameter upper crystal as a reverse scepter from the Oro Fino mine, Minas Gerais, Brazil (not on Mindat). Both the "shelf" between the crystals and the tip of the upper crystal are partially coated in light colored clay, and the "shelf" feature is studded with crenellations of dark purple-smoky secondary crystals. Other specimens included an outstanding 8.5 cm specimen consisting of two doubly-terminated amethyst crystals forming an "X", with one of the four ends hosting a scepter, and a third crystal jutting out from the vertex of the "X", from Piedra Parada, Mun. de Tatatila, Veracruz, Mexico; an interesting and complex 5 cm group of reverse scepter color-zoned crystals from the Goboboseb Mts, Brandberg Area, Erongo Region, Namibia; and a specimen with it all going on—a 4 cm, amethyst-tipped Japan-law twin leopard-speckled with small dark Goethite spheres from Itremo, Ambatofinandrahana District, Fianarantsoa Province, Madagascar.



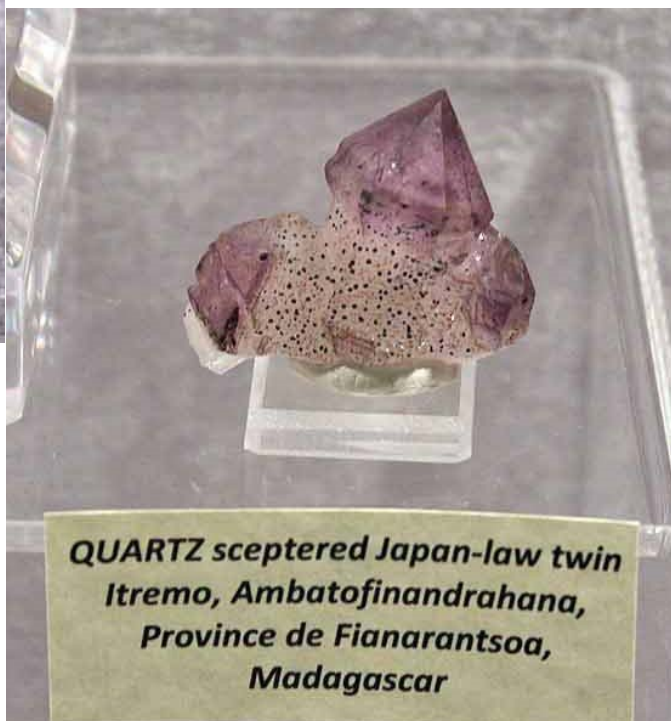
Quartz reverse scepter, 6 cm, Oro Fino mine, Minas Gerais, Brazil. Si and Ann Frazier collection.

Quartz variety Amethyst Scepter, 8.5 cm, Piedra Parada, Veracruz, Mexico. Si and Ann Frazier collection.





Quartz reverse scepter, 5 cm, Goboboseb Mts, Brandberg Area, Erongo Region, Namibia. Si and Ann Frazier collection.



Quartz, variety Amethyst sceptered Japan-law twin, 4 cm, Itremo, Madagascar. Si and Ann Frazier collection.



Flashback: Si and Ann Frazier's case from the 2016 symposium, entitled, "Collecting Japan-Law Twins."



PACIFIC NORTHWEST CHAPTER FRIENDS OF MINERALOGY

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MINERAL MEETING CALENDAR

2018:

Micro Mineral Study Group, May 5, 9:30 am to 4:30 pm
Camas-Washougal Fire Station #42
4321 NW Parker Street
Camas, Washington

Seattle Mineral Market, May 19th - 20, 10 AM - 6 PM
And PNWFM Meeting
Lake City Community Center
12531 28th Ave NE, Seattle, WA 98125

Pacific Micromount Conference, January 26-27
at a new location:
The Fallbrook Mineral Museum
123 W. Alvarado St.
Fallbrook, CA

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

Micro Mineral Study Group, November 3, 9:30 am to 4:30 pm
Camas-Washougal Fire Station #42
4321 NW Parker Street
Camas, Washington