

**PACIFIC
NORTHWEST
CHAPTER**



BULLETIN

DECEMBER
~~JULY~~ 1998

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PRESIDENT'S MESSAGE:

Hi Folks,

Well, it seems Fall is here. The weather is cool, there's snow in the hills, and the holidays are fast approaching. It's a busy time for most of us. On the mineral collecting side of things, many of our favorite collecting haunts are inaccessible, and will remain so until spring. This is the time to get out those boxes of minerals, field collected or otherwise, and to start going through them—mounting micros, trimming thumbnails, cleaning miniatures, or making space in your display for those new cabinet specimens!

This is also a good time to welcome other collectors into your home. It's a chance to get together, swap collecting stories from the past year, and to take a gander at each other's collections. Whatever this season finds you doing, whether it is mineral related or not, I wish you well.

This marks the end of my first year as chapter president. It has been a distinct pleasure and an honor to serve in that capacity. In the last year, we have had a number of events—field trips to Montana, Utah, and to Washington Pass, meetings at two museums and a university geology department, and, of course, our symposium. I would like to sincerely thank all of those who did the work that made these events possible. In addition, I would like to thank all of those who participated or attended these events—you are why we do this!

Our 24th annual fall symposium was held on September 25, 26, and 27. It was an enjoyable and an educational experience. I would specifically like to thank John Lindell, our symposium chairperson, for his long hours of work to put on this event. I would like to sincerely thank all

our symposium committee members—we are very proud of the jobs you did! In addition, I would like to thank our speakers, and those who put in a display. It is easy to underestimate the long hours of work that is involved when preparing in a display or a talk.

Most of all, I would like to thank those who attended the symposium. This is truly the most fundamental area of support we need. There are many members who are willing to donate long hours of their personal time in order to put on the symposium. I am personally touched by their dedication and effort. In the end, however, by simply attending the symposium, you provide the most important support. Without strong turnout by our members, we simply can't afford to put on the symposium.

This next year, you will have the opportunity to attend two symposia: a special spring symposium in Coeur d' Alene on Memorial Day weekend, and our 25th (silver anniversary) annual fall symposium September 24, 25, and 26. SET THESE DATES ASIDE. We expect your attendance and support. Don't let us down!

Sincerely,
Bob Meyer, President

PS The Puget Sound Gem and Mineral Show was held on November 6-8. By all measures, it was a successful show. I would like to thank Jim and Rusty Etwiler for toiling long hours throughout the year, and especially over that weekend on behalf of FM, which is a member organization of that show! Your efforts are appreciated!

1998 Noble Witt Memorial Award

The Noble Witt Memorial Award, our highest honor, was presented to Arlene Handley at the 24th annual Pacific Northwest Chapter Friends of Mineralogy Symposium. Arlene has a distinguished and long history of service to our chapter and to the national organization. Throughout our history, Arlene has been involved. She has served as symposium chair a number of times, and she still continues to be an active and caring participant in our symposium. She is a powerful advocate for Friends of Mineralogy, and for the mineral collecting hobby. We simply wouldn't be what we are without her! In other words—she really deserves this award!

Silver Anniversary Symposium Update

Our 24th annual symposium is barely over and already substantial progress has been made concerning our 25th annual symposium. The symposium will be held at the Days Inn in Tacoma on September 24, 25, and 26. The topic is Silver, which is assumed to include silver, silver minerals, minerals that occur at silver mines, and silver mines and districts themselves. Because our contract is signed, and food, room, and other prices are essentially the same as they were for our 24th symposium, we anticipate that registration fees should remain about the same. Although we do intend to give a discount for early registration, as we have done for past symposia. We are also attempting to get an early start on lining up our speakers. It is our intention to get our flier out early this year given those facts.

The mix-up with our space at the Days Inn this year, where we temporarily lost half of our area, caused us to ask ourselves the following question: what if we kept the dividing wall up during the entire symposium? This would give us one room, which would be open all of the time, for dealers and displays, and the other room for our talks, meals, and auction. We are in the stages of layout preparation to determine if this is actually feasible. Please contact me with any input you might have on this idea.

At this time, symposium committee membership is still being established. So far, Bob Meyer (425) 641-0723 <bmeyer@icos.com> has agreed to be symposium chairperson, John Cornish (360) 457-7630 <j&gcornish@tenforward.com> has agreed to set up the speaker program, be symposium emcee, and display chair (whew!), Cheryl Burchim (360) 665-5700 will be hotel liaison and in charge of finance, Rudy Tschernich (360) 568-2857 has agreed to take on responsibility for the dealers and publicity, Sharleen Harvey (503) 248-4194 will continue to assemble the symposium guidelines handbook, Bart Cannon (206) 522-9233 has agreed to floor plan and layout, Arlene Handley (360) 693-1034 will handle the auction for us once again, and Wes Gannaway (360) 384-4209 <>wgannaw@mail.arco.com> has agreed to set up and breakdown. **FURTHER HELP IS NEEDED!** By the next newsletter, we hope to have the committee firmed up, along with additional exciting news.

Sincerely,
Bob Meyer, President
(425) 641-0723

MEETING NOTICES, UPCOMING EVENTS, FIELD TRIPS:

1999 Symposium Committee

Bob Meyer, Chairperson 425-641-0723
Cheryl Burchim, Finance and Motel Liaison 360-665-4349
Rudy Tschernich, Dealers and Publicity 360-568-2857
Sharleen Harvey, Symposium guidelines manual 503-248-4194
Arlene Handley, Auction 360-693-1034
John Cornish, Displays and Speakers 360-457-7630
Bart Cannon, Layout 206-522-9233
Karen Hinderman, Hospitality 360-380-2035
Ray Lasmanis, Security 360-491-6893
Wes Gannaway and Gary Hinderman, Set up and breakdown 360-384-4209
If you have any input, questions, or wish to help please contact any committee member.

Spring Symposium '99

The NW chapter of FM is holding a spring symposium over the Memorial Day weekend, May 28-30, at the Coeur d' Alene Inn, in Coeur d' Alene, Idaho. This will be just like the fall symposium in Tacoma with speakers, dealers, and displays. The theme is "Finding Minerals". If you have questions or would like to help, please contact Lanny Ream, PO Box 2043, Coeur d' Alene, Idaho 83816-2043, (208) 667-0453.

MEETING MINUTES:

Minutes - 1998 Symposium
Sunday, September 27, 1998

President Bob Meyer opened the meeting at 9:45 AM with a big thank you to all individuals who worked hard at the symposium. He specifically thanked all attendees, John Cornish, Karen Hinderman, Wes Gannaway, Mark Mauthner, Rudy Tschernich, Cheryl Burchim, Bob Smith, Arlene Handley, and John Lindell (symposium chair). Lastly, all individuals who pitched in and helped were thanked.

The annual Noble Witt award was presented to Arlene Handley. A tearful Arlene expressed thanks and gratitude.

A brief report on the spring 1999 symposium in Coeur D' Alene was presented. Lanny Ream will be getting more information out to us soon. Mark your calendars for Memorial weekend of 1999.

The 1999 Fall Symposium will be held the 4th weekend in September at the Days Inn in Tacoma. Arlene presented a list of reasons why we should stay with this locality: I-5 accessibility, price, acceptance of our group. Dick Rantz also offered support. Since the Fall 1999 Symposium will be our 25th anniversary, Ray Lasmanis moved to have silver and silver minerals be our theme. After discussion, MSP.

Lastly, it was suggested again that T-shirts be ordered in XXL sizes so that all members could buy them and wear them.

Meeting adjourned 10:10 AM.

Respectfully,
Karen Hinderman, Secretary

Please pay your 1999 dues now. Those of you who already have may ignore this message. However, the majority of our membership has not. In fact, some have just now paid 1998 dues. If you are unsure check your label. I have marked each one with the year that you are paid through. Thank you for your attention to this extremely important matter.

Karen Hinderman

TREASURER'S REPORT:

Oct 7, 1997 balance: \$7113.71

Expenditures:

10/97 to 9/98	National dues:	350.00	
10/21/97	Mike Groben (symp phone bill)	36.44	
11/2/97	Michael Wise (speaker travel 97)	328.00	
11/19/97	Eugene Foord (speaker travel 97)	220.00	
12/97 to 8/98	copies and postage for newsletter	440.30	
	1999 Corporation dues in Oregon	10.00	
	Rocks and Minerals color donation	100.00	
			1484.74

Deposits:

	Dues:	600.00	
10/20/97	table rental	50.00	
	T-shirt	12.24	
	year to date interest	38.28	
			700.52

Balance ending on 9/15/98 6329.49

Symposium Report:

Deposits:

	Dues:	720.00	
	Symp. Registration, Tees, etc.	5510.25	
			6230.25

Expenditures:

	National Dues:	230.00	
	Speaker travel	550.00	
	Postage and Printing	131.04	
	Meals	2639.67	
	Rooms	771.10	
	Phone records	119.86	
	Misc.	2.57	
Total Expenses			4444.24

Ending Balance: 8115.50

Symposium Deposits (not including dues):	5510.25
Symposium Expenses:	4214.24
1998 Symposium profit:	1296.01

Respectfully,
Cheryl Burchim, Treasurer

WASHINGTON PASS CLEANUP

The 9th annual Washington Pass Cleanup was a success. FM members from three states and a Canadian province participated. There were attendees from Idaho, Oregon, Washington, and British Columbia. Attendees began arriving at Klipchuck camp ground Thursday, August 6, 1998. Those that arrived early enough were able to begin collecting mineral specimens Friday. Friday evening the group gathered around the campfire to visit and talk about mineral collecting. Saturday morning Cheryl Burchim invited all attendees for a breakfast of custom made omelets and assorted sliced fruit. After everyone had enough to eat, teams then proceeded to clean the 15 miles of highway from below the camp ground to the top of the pass. By noon all teams had finished their section of road and returned to camp where Cheryl had a large kettle of delicious chili ready.

Saturday afternoon the group collected mineral specimens at the Silver Star turn out and later along the road below the Cutthroat Creek turnout. Members that were familiar with the area helped the newer members collect and identify specimens. Saturday evening found all of us again gathering around the campfire. After dark we took a trip back to the Silver Star turn out to locate specimens with a "black light". Several minerals common there fluoresce and are easy to find this way. Thanks to John Dagenais for setting up his microscope so people could see what they had collected.

Sunday morning some of us broke camp and then Bob Boggs led a group of collectors up to the base of Liberty Bell for additional collecting.

For the 10th annual clean up we discussed bringing telescopes for use Friday and/or Saturday nights to stargaze and look for satellites. The stars are so visible there compared to near the city because of the lack of interfering lights.

Plan now to attend the 10th annual Washington Pass Cleanup, tentatively set for August 7-9, 1999. There will be fun for all who attend.

Jim Etwiler

SEATTLE REGIONAL GEM AND MINERAL SHOW

The 44th Seattle Regional Gem and Mineral Show was held November 6-8, 1998 at the Puyallup Fair Grounds. The Northwest Friends of Mineralogy is one of the seven member clubs that produce this show. Positive comments were heard from attendees, participants, and dealers attesting to the success of the show. For FM members there were six dealers at the show that had mineral specimens for sale. Dealers also carried faceting, lapidary, wire wrapping, bead supplies and finished jewelry. Demonstrators covered all these aspects of the hobby as well as one who was set up to identify minerals using hardness, density, and streak tests as well as a microscope.

The mineralogy display cases were a hit with the viewing public. Thanks go to the following members for producing display cases: Don and Laura Guthrie, Dan Ice, "Corky" Russell, Lorna Gobels, Jim and Rusty Etwiler, and Bob Meyer. Thank yous also go to Mary Foster and Rusty Etwiler for attending the committee meetings all year to represent us, and helping

with the production of the show. Supporting this activity fits one of FM's goals, that of providing educational opportunities for the public.

Jim Etzwiler, 2nd Vice President, Seattle Regional Gem and Mineral Show Committee

NEW MEMBERS, ADDRESSES:

Bob Meyer's email is bmeyer@icos.com

Bruce Wood's email is BrucewoodMinerals@worldnet.att.net

Ray Lasmanis' email is RMGG490@gwgate.wadnr.gov

EDITOR'S COMMENTS:

Another year has gone by with some good things happening in the field of mineral collecting. Our chapter seems to be more active both in the field and in print. I have had some good suggestions for the newsletter from several members and I will endeavor to incorporate these into print. I strive to do better with every new issue, and I always will accept any comments from you readers. This is your publication and I am trying to put out a product that reflects the wishes and standards of the members.

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1998 FM SYMPOSIUM DISPLAYS

described by

Raymond Lasmanis

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This year's theme was phosphates, arsenates, and vanadates - a very colorful group of minerals with numerous species. This was reflected in the beautiful displays. There were 17 cases in total, including two from well known mineralogical museums. Arrangements were made by John Cornish for three additional cases but a shortage of tables prevented them from being set up.

Spectacular and large crystal groups graced the case by Rice Northwest Museum of Rocks and Minerals. The case contained 13 specimens with a 12"x 12" centerpiece plate of polished variscite from Fairfield, Utah. On the right there was a 8"x11" breccia fragment coated on two sides by red 1/4" to 3/8" lustrous vanadinite crystals (probably Apache Girl mine) from Arizona. On the other side there was a 8"x 14" radiating group of thick vivianite xls. from Cameroon. The case also contained a 7"x 10" group of descloizite xls. from the Berg Aukas mine, Grootfontein, Namibia; red shiny little mimetite spherules with wulfenite on 4"x 6" matrix, Rowley mine, near Theba, AZ; green 4"x 6" conichalcite xl. group and a 8"x 8" austinite group from the Ojuela mine, Mapimi, Durango, Mexico; a 3 1/2"x 4" mimetite specimen from Broken Hill mine, Zambia; blue cornetite on 2 1/2"x 5" matrix, Mine D, Shaba, Zaire; unusual 2 1/2"x 3" group of 1" pyromorphite xls., Friedrichsseggen mine, Nassau, Germany; and, erythrite crystals coating 5"x 8" matrix, Bou Azzer, Morocco. From the Northwest, a very nice specimen of 3/8" to 1/2" ludlamite xls. on 4"x 4" matrix, Blackbird mine, Lemhi County, Idaho.

Robert Downs, our symposium speaker, put in a case with 18 superb specimens from Arizona and Mexico. The specimens are from his personal collection and the famous Miguel Romero Collection of the University of Arizona Mineral Museum. In 1986, Mr. Miguel Romero was our key speaker at the 12th Annual Friends of Mineralogy Symposium, Pacific Northwest Chapter. From Arizona, Robert Downs had a large, single, 1 1/2"x 2", orange wulfenite xl. from the Old Yuma mine, Pima County (collected by Richard Bideaux) and up to 1/2"x 1" lustrous wulfenite xls. on 3 1/2"x 5" matrix, Red Cloud mine, Silver District, La Paz County (collected by Garry Edson and Michael Rose). From the Miguel Romero Collection, we were treated to some of the best Mexico has to offer: a 4 1/2"x 5" group of purple lustrous adamite xls., Mapimi, Durango; a 4"x 4" group of spectacular 1" thick by 2" long pyrargyrite xls., Fresnillo, Zacatecas; a fabulous 4"x 5" acanthite xl. group covered by 1" hopped xls., Pedrazzini mine, Sonora; a 1 1/2"x 4" terminated fluorapatite xl. on 3 1/2"x 5" matrix, Cerro del Mercado, Durango; and, a compound 1"x 1 1/4" jalpaite xl. from the type locality, Jalpa, Queretaro.

In conjunction with the Sunday presentation, there was a display of minerals and photographs from the Friends of Mineralogy summer collecting field trip to Utah, which 14 members attended. In the case there was adamite from Gold Hill mine, Toole Co.; unusual minerals such as stringhamite and whelanite from the Bawana mine, Beaver Co.; olivenite and duftite, Centennial Eureka mine, Tintic District, Juab County; and, representative specimens of topaz, bixbyite, and beryl from Topaz Mtn., Millard County. It looks like it was a great trip.

A most attractive and artistic display was created by Lorna and Don Guthrie. Gathered over the last five years, the case contained mining artifacts, desert glass, and minerals such as boleite, copper carbonates, and gypsum from the Boleo Mining Co. properties, Santa Rosalia, Baja California, Mexico.

The next case, by Jack Frasl, contained outstanding 5" to 10" specimens of calcite and quartz. There was a beautiful cluster three slightly smoky "Herkimer" quartz crystals from Middleville, N.Y. and a 5"x 10" cluster of danburite xls. coated by drusy quartz and ½" scalenohedral calcite xls., Charcas, Mexico. The most spectacular specimen in the case was a 5"x 6" quartz xl. having a collar of ½" to ¾" rose quartz xls., Minas Gerais, Brazil as described in the *Mineralogical Record*, Vol. 4, No. 5, pp 207-213, and Vol. 11, No. 6, pp 377-379.

The case by Robert J. Smith contained 20 specimens of phosphates, arsenates, and vanadates. Many of the 3" to 6" specimens were from Bob's favorite area, the pegmatites of South Dakota. The display had a large 5" amblygonite xl. from the Tin Mtn. mine, Custer, S.D. From Rapid Creek, Yukon, he had ¾" to ½" lazulite xls. on 4 ½"x 6" matrix and ¾" to ½" whiteite xls. on 2 ½"x 3" quartz matrix. From the Northwest, a 2 ½"x 5" vug lined by pyromorphite xls., Bunker Hill mine, Kellog, ID., and very nice, lustrous, ½" to 1" vivianite xls. on 3"x 3" matrix, Blackbird mine, Cobalt, ID.

Pat and Kathy Curry displayed a beautiful collection of agatized coral from Florida. The 25 sawed, 6" to 16", matching halves presented cavernous, stalactitic, and botryoidal forms in many shades of tan, brown, and even red. The agatized coral is recovered from a submerged formation near Perry and Tampa Bay, Florida. Collecting is conducted on dredge spoils or by using scuba diving equipment.

Mark Mauthner, put in two display cases. One case featured 23 minerals of the Apatite Group. The ½" to 4" specimens of colorful pyromorphite, vanadinite, mimetite, and fluorapatite represented many famous world-wide localities. From the N.W.T. he had a 2"x 4" specimen covered by purple fluorapatite xls., Little Nahani pegmatite group, Logan Mtns. (#1155) and a 1" pale yellowish fluorapatite xl. from Sceptre claim, Emerald Lake, Y.T. (#1654). From the Northwest, there were two superb pyromorphite xl. groups from the Society Girl mine, Moyie, B.C.: a 2"x 3" quartz xl. covered by dark green, lustrous drusy xls. (#2180) and a 2 ½" x 2 ½" vug lined by ¾" to ½" hopped xls. (#733). The Bunker Hill mine, ID, was represented by a 2"x 2 ½" specimen covered by ¾" to ½" lustrous pyromorphite crystals (#653).

The second case from the Mark Mauthner collection contained a great selection of minerals from Rapid Creek and Big Fish River, Y.T. The 29 specimens very nicely complemented the presentation by Gary Ansel on the locality. From Rapid Creek, the display had: up to ½" wardite xls. on 4"x 5 ½" matrix (#1948); ¾" wardite xls. on lazulite xls., spec. 1 ½"x 1 ¾" (#1586); the largest lazulite xl. at symposium, single shiny 5/8" xl. on 2 ¼"x 2 ½" matrix (#641); very aesthetic spec. with ¾" lazulite, quartz, and siderite xls. on 3 ½"x 5" plate (#1950); a 5" wide and 6" long parallel group of quartz xls. sprinkled by lazulite xls. (#2247); ¾" single xl. on 1"x 2 ¼" lazulite xl. group (#656); messelite, 1 ¼"x 2 ¼" (#1926); gorceixite on 2 ½"x 3" matrix (#1956); kryzhanovskite, 2 ½"x 3 ½" (#1933); rapidcreekite micro xls., 1"x 2 ½" (#1849); small

goyazite xls. on 1 1/2"x 2" matrix (#2245 & 1776); kulanite in a 1" long vug (#868); collinsite, a 1/2"x 1 1/2" spec. (#666) and a 1/2" xl. spray on 1 1/4"x 1 1/4" matrix (#1761): a 1 1/4" compound whiteite xl. (#52), as 1/2" to 5/8" xls. on quartz xls. (#1187), and, a 1 1/2" compound xl. on 2"x 3 1/2" spec. of lazulite xls. (#1957); 3/8" augelite xls. covering 3"x6" matrix (#1949); arrojadite (#2246); and, brazilianite, anatase, kulanite on 2 1/2"x 3 1/2" matrix (#299). Mark Mauthner's Rapid River specimens #1948, 1949, and 1950 were collected from the same vugs as specimens #2175, 2177, and 2196 in the Ray Lasmanis case.

From Big Fish River, Mark displayed the following: 1 1/4"x 2 1/4" group of gormanite xls. (#2277) and shiny acicular xls. in 2 1/4"x 2 1/4" vug (#2269); brown radiating wolfeite, 2 1/2"x 2 3/4" (#2278); a 5/8" by 2" terminated vivianite xl. on matrix (#2271); from Locality 16, 2 1/2"x 3 1/2" spec. blue maricite and two spec. wicksite; and, from Locality 15, Area C, 3/8" ludlamite xls. on 1"x 1 1/2" matrix. A great display, Mark!

Lorna Goebel put in a outstanding reference display with 53 specimen representing all 19 groups of phosphates, arsenates, and vanadates. Material from a number of Dana and type localities was shown. From the Northwest, there was 3/4"x 1" specimen of annabergite, Snowbird mine, Mineral Co., MT; 1/2" pyromorphite, Burke, Shoshone Co., ID; a 2"x 2 1/2" specimen of autunite and a 1/2" specimen of meta-autunite, Daybreak mine, Mt. Spokane, WA; and scorodite coating 1"x 2" matrix, Gifford Lakes, King Co., WA.

Corky Russell put together a case of 16 specimens, mostly of quartz from a green 1" crystal, Seriphos, Greece to a massive 12"x 18" group of "ametrine" crystals from Bolivia. In the center of the case there was a very dark blue 1/2" x 4 1/2" long kyanite crystal on quartz, Barro do Salinas, Minas Gerais, Brazil. From the Sweet Home mine, Colorado, he displayed a very lovely 2 1/2"x 3" specimen with sphalerite and needle quartz xls. on which are perched several 1/2" to 3/4" rhodochrosite xls. From the Northwest he had: 4 1/2" Japan Law twin, Mt. Teneriffe and a 6"x 12" plate with up to 3" quartz xls. and several 1" to 1 1/2" pyrite xls., Spruce 16 claim, both from King Co., WA.

Theme minerals were displayed by Jim and Rusty Etwiler. The Northwest and the Yukon was well represented. From Rapid Creek, Y.T., the centerpiece was the most spectacular: 5"x 9" matrix covered by lustrous lazulite xls. with brown siderite xls. Other Rapid Creek specimens were: 1" spec. with whiteite, arrojadite, and lazulite; attractive 1 1/4" x 2 1/2" group of lustrous lazulite xls. with quartz; and, 3/8" to 1/2" whiteite xls. on 1 1/4"x 2 1/2" quartz xl. matrix. From Big Fish River, Y.T., there was a 1" specimen of felty gormanite. The following were shown from the Northwest: 1" vug in purple fluorite coated by tyuyamunite and 1" spec. brown calcite xls. coated by tyuyamunite, Dandy mine, Carbon Co., MT; from Idaho, 3/8" ludlamite xls. on 1"x 1 1/2" matrix, Blackbird mine, Cobalt and three pyromorphite crystal specimens from the Bunker Hill Mine (3"x 5 1/2" matrix covered by small lustrous orange xls., a 3"x 4" orange group, and attractive radiating 3/8" to 1/2" greenish-yellow xls. on 2"x 4" matrix, 9th Level, Deadwood Jersey vein). From Washington, there was tiny bright yellow autunite xls. coating 4"x 5 1/2" matrix from the Midnite mine, Ford.

Ray Lasmanis displayed 41 specimens to go with the symposium theme. There just did not seem to be enough space in a standard-sized case to display all of the colorful minerals. The material spanned the entire collecting period as represented by a 1 1/2"x 4" fluorapatite xl., Silver Crater mine, Bancroft, Ont. (#142) and purchased in 1954 to bright red vanadinite xls. on 3 1/2"x 3 1/2" matrix, North Jeronimo mine, Pure Potential claim, La Paz Co., AZ (#2845) and collected Feb. 2, 1996. Large theme minerals from Arizona, Utah, Portugal, and Namibia lined the back. The case also contained phosphates from New England pegmatites representing my early collecting years during the 1950's. From Rapid Creek, Y.T. the case had four specimens. They were purchased on 3/4/81 from Bev Kulan of Mackenzie Resources Ltd. and interestingly, the locality was given by Bev Kulan as Blow River. The specimens are: 3/8" wardite xls. on 1 1/4"x 1 1/2" matrix (#2177); 3/8" augelite xls. on 3/4"x 3" matrix (#2175); and my favorite, lustrous 3/8" lazulite xls. scattered amongst 1/2" quartz xls. (#2196) - the previously described three specimens came from the same cavities as in Mark Mauthner's display (his #1948, 1949, and 1950). The fourth Rapid Creek specimen, 2 1/2"x 2 1/2", is covered by bright 3/8" lazulite xls. (#2176). Also from the Yukon, there was a 3/4"x 1", yellowish, transparent fluorapatite xl., Sceptre claim, Emerald Lake (#2877) and coll. by Rod Tyson in 1995.

Lasmanis had a good selection of Northwest material. From British Columbia: volborthite coating 2"x 2" matrix, PH#1 claim, Menzies Bay North, N. of Campbell River (#1955) coll. Aug. 15, 1973; two single hopped 5/8" pyromorphite xls., Society Girl mine, Moyie (#1987); and, 1/2" to 3/4" fluorapatite xls. in 1 1/2"x 2 1/2" bornite matrix, Bench 10, Granisle mine, Babine Lake (#1832) coll. Aug. 15, 1972. From Montana, 1/2" to 1 1/2" parisite xls. in annabergite, Snowbird mine, Mineral Co. (#1820) coll. Aug. 4, 1972. From the Blackbird mine, Cobalt, Idaho, three specimens: 1" bladed vivianite xls in a 1 1/2"x 2" group (#1610); 1/4" ludlamite xls. on 1 1/2"x 2 1/2" matrix (#1813); and, erythrite coating 1 1/2"x 3 1/2" matrix (#2231). As in other cases, the Bunker Hill mine, Idaho, was represented by 3/8" pyromorphite xls. on 1 1/2"x 2 1/2" matrix, 090-23-25 Stope, Floor 9, 9th Level, Jersey Vein (#2178). From the Sherman mine, Shoshone Co., Idaho, a group of 3/8" to 1/2" green pyromorphite xls in a 2"x 3" group (#2670) and from Art Cooper collection, coll. prior to 1962. From Washington state: erythrite coating 3"x 4" matrix, North Gold Wing zone, Crown Jewel project, Okanogan Co., (#2569) coll. Oct. 30, 1989 and an outstanding specimen of autunite/meta-autunite, up to 1" xl. sprays, in a 3"x 4" group, Daybreak mine, Mt. Spokane (#1399).

Bill and Diana Dameron had very nicely presented 25 choice theme mineral specimens from 2 1/2" to 5 1/2" in size. Two specimens immediately caught one's eye: 3 1/2"x 4 1/2" group of bright, lustrous, 1/2" vanadinite xls. on cavernous hollandite, Taouz, Morocco and, my favorite, very aesthetic, bright green, little radiating clusters of pyromorphite scattered along ridges of a manganese-coated 3 1/2"x 4 1/2" barite specimen, Les Farges mine, Ussel, Correze, France (formerly in the collection of speaker Bob Downs). From the Northwest, he had three classy specimens from the Bunker Hill mine, Idaho: large shiny 1 1/4" xls. in a 2 1/2" group; 1/2" cavernous greenish xls. in a 2 1/2" group; and, curving 3/8" to 1/2" xls. on 2 1/2" matrix. From the Daybreak mine, Mt. Spokane, WA, he had a very nice group of 3/4" platy xls., 2 1/2"x 3 1/2" specimen.

Robert O. Meyer with a case of 42 specimens and 5 photomicrographs to illustrate those tiny rare minerals (great idea). The display had some real classics with a "pedigree" including a 6" polished slab of variscite with wardite, millisite, and crandallite, Clay Canyon, Utah Co., Utah, coll. by Ed Over in the 1940's (sold by Shortman Minerals) and a 6"x 12" spec. of large wulfenite xls. totally covered by descloizite, Glove mine, Santa Cruz Co., AZ (originally Paul Rhoades coll.). From Rapid Creek, Y.T., he had up to 1/2" lazulite xls. on 3 1/2"x 4" matrix with wardite and siderite, coll. by Canadian Museum of Nature (#CMN#F83-33) and ex. Rob W. M. Woodside collection. From the Northwest he had the following: small xl. of veszelyite and small needle-like pyromorphite sprays on 2 1/2"x 4" matrix, both spec. from the Black Pine mine, Granite Co., MT. From the Bunker Hill mine, Idaho there were three excellent pyromorphite specimens: rounded, lustrous, orange clusters (arsenian) on 2 1/2"x 3 1/2" matrix, 090-23-25 Stope, 9th Level, Deadwood Jersey vein (coll. In 1981); and two specimens from the 140-18-22 Stope, 14th Level, Brown orebody of very dark, shiny, 1/2" xls. in a 1" cluster, and, same dark 1/2" xls. in a 2 1/2"x 2 1/2" group. This small find of dark pyromorphite was made in the early 1980's and is similar to pyromorphite from Bad Ems, Rheinland-Pfalz, Germany.

A very attractive display was put together by John Lindell with theme minerals, old books, and a few artifacts. Of the minerals, four specimens stood out: a 2 1/4"x 5" xl. of vivianite, Morococala mine, near Oruro, Bolivia (#1036); perfect, 1", lustrous xls. of vanadinite in a 2 1/2" group, Mibladen, Morocco (#772), coll. 11/85; 3/8"x 1/2" deep green meta-torbernite xls. on a black manganese 3 1/2"x 4 1/2" matrix, Musonoi pit, Shaba, Zaire (#760); a large, 4"x 4 1/2" cluster of 1/2" pyromorphite xls. grading downwards into orange-red arsenian pyromorphite, 9th Level, Jersey Vein, Bunker Hill mine, ID (#994) and coll. 11/81 by Bill Penninger. Other outstanding Bunker Hill pyromorphite specimens were: 3/4" xls. in a 1 1/4" group, 090-23-25 Stope, Floor 17, 9th Level (#370) coll. 2/81 by Norm Radford; 2 1/2" spec. of rounded orange pyromorphite (#369), coll. 1981; and, greenish, 3/8" spherical clusters scattered on 3 1/2"x 5" matrix (#379), coll. 1981. From the Blackbird mine, Cobalt, Idaho, there was the finest vivianite, a deep green transparent 1/2"x 3 1/2" terminated single xl. (#2266) coll. in 1962 by Ed McDole and beautiful single 3/8" to 1/2" ludlamite xls. on 1"x 2 1/4" matrix (#784). From Cramer Creek, Missoula Co., MT., there was a group of dark green euchroite xls. (#441) and coll. 6/82 by Bart Cannon. The Rapid Creek, Y.T. locality was represented by three specimens: augelite on quartz xls., a 3 1/2" x 5" specimen (#2373) coll. By Barry & Al Kulan 1975-1976; very lustrous lazulite 3/8"x 1/2" xls. in a 2"x 3" group, Crosscut Cr. (#1388) coll. 7/92 by Gunther Kuhnlein; and, 1/4" to 3/8" apatite xls. with siderite and lazulite on 1 1/2"x 2 1/4" matrix (#1389) coll. 7/91 by Gunther Kuhnlein.

As in previous years and to illustrate his Sunday presentation, Rudy Tschernich displayed his best find of 1998 - zeolites from the large pocket system in Weyerhaeuser's Lincoln Creek quarry, Doty Hills, Lewis County, WA. Collected between 2/9 and 2/24/98 by Rudy, Warren Sorensen, and Dan Sorensen, the case contained five spectacular natrolite crystal plates (two of which have large calcite xls.) and four smaller specimens. Photographs of collecting 40 feet above the quarry floor from a ladder was a nice touch. The case contained the following: a large plate, approx. 1'x2', covered by 1" to 1 1/2" natrolite needles including stalactitic-like apophyllite crystal masses also covered by natrolite xls. (#10951); my favorite specimen, 1" to 4" rhombohedral yellowish calcite crystal group perched among 2" to 2 1/2" long snow-white natrolite xls., spec. is 10"x 12" and from "left pocket" (#10950); largest calcite xl. group from

“left pocket”, compound 6" to 12" calcite xl. group on 14"x 24" matrix that is covered by 1" to 1 ½" natrolite xls. (#10952); beautiful 2" to 2 ½" natrolite needles and up to 5/8" apophyllite xls. on black chloritic matrix (#11242); and four specimens of single, up to 3 ½" long, natrolite needles coated by micro apophyllite xls. from left pocket roof drip-stone features (#11157, 11159, 11176, & 11177). It should be acknowledged that these beautiful specimens did not go to the crusher because of the permission and assistance of Weyerhaeuser. For additional information on this quarry, see the 1998 article by John Cornish in *Rocks & Minerals*, Vol. 73, No. 4, pp. 268-275.

A quick overview of displays gives one an excellent snapshot of popular Northwest localities for this year's theme species. The Bunker Hill mine material was displayed in 47% of the cases, with Rapid Creek at 35%, and a surprising third, the Blackbird mine in Idaho in 29% of the cases. Thanks go to John Cornish for organizing the cases, the many who displayed material from their collections, and apologies to three members who brought material for display but could not be accommodated.

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