

Pacific Northwest Chapter

FRIENDS OF MINERALOGY

April 2005 Bulletin



Spring Meeting at the Rice Museum

Saturday, April 23, 2005, 10:30 a.m.

The first PNWFM meeting of 2005 will be held at the Rice Museum on April 23 at 10:30 am. The meeting program will consist of the following:

- Short business meeting
- Topics of discussion (Aaron Wieting)
- Members open session (questions, concerns, etc.)
- Presentation: "Exploring for Minerals in NE Oregon: New Finds and Future Explorations" (Aaron Wieting)
- Lunch/refreshments
- Museum tour

This presentation will focus on recent attempts to fill in the gaps on knowledge of Oregon mineral localities and will include details on recent successes.

Refreshments will be served at approximately 12:00 and will consist of snacks and sandwich fixings.

Following lunch, members may view the museum collection. The new meteorite gallery will also be open for members to view.

As always, the museum needs the assistance of FM members. Please see the announcement below for one of the ways members can assist the museum. Also, the Kids' rock pile needs to be constantly replenished with specimens of crystals and interesting geologic rock samples. In addition, an educational section on igneous, sedimentary, and metamorphic rocks is being prepared at the museum and good specimens are needed. Members are also urged to think about where large 1000 to 2000 boulders of good examples of various rock types can be obtained for the Geologic Walk outside the museum.

Interested in contributing? Come to the meeting, participate, and find out what's happening in FM!

CALL FOR DONATIONS!

PNWFM Rice Museum NW Gallery Fundraiser

August 20-21, 2005

PNWFM will be participating in a fund-raiser on August 20-21, 2005 to generate funds for the new Northwest Gallery at the Rice Museum in Hillsboro, Oregon. This will be conducted in conjunction with the Rice Museum's 2nd Annual Summer Festival. The Summer Festival is a lively weekend of rocks, minerals, fossils, and activities at the Rice Museum with the primary purpose of raising funds for the NW Gallery. The Summer Festival includes various activities to raise funds including mineral dealer contributions, raffles, door prizes, pony rides, and more.

PNWFM will have a table set up to sell minerals in the dealer area at the Summer Festival. PNWFM table mineral sales will consist of specimens donated by PNWFM members with all proceeds going to benefit the NW Gallery of the museum. The PNWFM table will be staffed by Aaron & Jade Wieting for the duration of the Summer Festival.

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President's Message

Another year and winter gone by and the summer collecting season is fast approaching already. Like most members, I am looking forward to getting out and prospecting for new specimens to add to the collection, and as always, the list of places to visit never seems to get any shorter. Research continues on Oregon and we have some long trips planned this year. Later this summer we plan to head to the Steens-Pueblo Mountains area in SE Oregon to look at mercury and copper mines and prospects. In addition, I've lived in Oregon most of my life and never been Steens Mtn. and the Alvord Desert. We also plan a long trip to NE Oregon later in the summer to prospect for tourmaline pegmatites in Baker and Grant Counties, and for skarns in Baker and Wallowa Counties. This, of course, will include lots of hiking in some of Oregon's high altitudes of the Blue and Wallowa Mountains. As always, summer can't get here soon enough though with the crazy weather so far it seems like summer's going to come much sooner this year.

One item that's been helpful in my research is that the Department of Oregon Geology and Mineral Industries (DOGAMI) has recently released all of the out-of-print Bulletins on cd in Adobe Acrobat format. Some are as single bulletins on one cd while others are compilations. The coveted Bulletin 14 has been released on one cd which includes the sought-after Bulletin 14-D, Oregon Metal Mines Handbook for Northwest Oregon. Maps included as plates have been scanned at high resolution and are suitable for high-quality printing (one geologic map for Bulletin 3, The Geology of Part of the Wallowa Mountains, is 171 mb!). In Portland, these cds are available at the Nature of Oregon on the first floor of the State Office Building at 800 NE Oregon St.

Also, symposium preparations are underway and with John Rakovan and Jesse Fisher, we have great speakers again this year. The Symposium Committee can always use assistance, so please contact me if you are interested in participating. Once again we enjoyed another successful Symposium with only a few manageable last-minute surprises. As always, we thank (in no particular order) the Symposium Committee for maintaining the high standards of past Symposia, our speakers for educating and entertaining us, and our members for continuing to show their support.

Various activities are planned for this year and are listed on p. 4. In particular, I'd like to highlight the Rice Museum Northwest Gallery fund-raiser, described on the front page, as a way in which members can help support the museum. Announcements for additional events will be included in later newsletters.

In other news, the Pacific Northwest Chapter of FM is now on the web at <http://pnwfm.org>. Jim Etzwiler has put in a tremendous amount of effort to get this up and running. Our website is under construction and various pages are being updated as time permits. Please check out the website and let webmaster Jim know if there are any items you can provide for the website such as photos from past Symposia, etc. Also, please take the opportunity to thank Jim for all his hard work.

As part of my research I periodically come across useful and interesting websites. One I found recently was a German webpage with all of Victor Goldschmidt's Atlas der Krystallformen scanned and posted on the web:

<http://www.meinemineraliensammlung.de/victor/goldschmidt/>

Resolution of the scanned images is not high enough to justify copying all the electronic images, but it's still a useful site to have on the favorites list. A couple of my favorite microscopy webpages include Nikon's MicroscopyU which includes excellent tutorials (<http://www.microscopyu.com/>) and Florida State University's (FSU's) Optics and Microscopy webpage (<http://micro.magnet.fsu.edu/>). On the FSU webpage, note the "Beershots" selection under the list of photo galleries in the left column. The gallery includes numerous frozen, crystallized beers from around the world photographed through the microscope under polarized light. We are not alone.

As always I hope that members have a successful collecting season and that we can see as many members as possible at the various events throughout the year!

Aaron B. Wieting

PNWFM 31st Annual Symposium

"Minerals of Mississippi Valley Type Deposits"

New Dates! October 14 - 16, 2005

This year's Symposium theme has been selected as "Minerals of Mississippi Valley Type Deposits". Preparations for this year's Symposium are underway and headline speakers have already been confirmed. John Rakovan, Executive Editor of *Rocks & Minerals*, will be presenting on some of his recent work in New Mexico. Jesse Fisher, who presented at the 2001 Symposium, will be presenting on the Northern Pennines in England to complement his recent article in *Rocks & Minerals*. Most members are familiar with the classic specimen-producing Mississippi Valley Type (MVT) Deposits such as the Tri-State District, the Viburnum Trend, and the Old Lead Belt. This year's speakers will give us an opportunity to explore some of the other great examples of MVT Deposits.

MVT Deposits constitute another interesting and unusual topic which provides something of interest for most mineral collectors. MVT Deposits are economically significant sources primarily of lead and zinc, but are not completely understood. Guilbert and Parks (1986) classify MVT deposits as "epigenetic deposits of doubtful igneous connection". In this case, epigenetic refers to mineral deposits emplaced after, and often much later, than the rocks that contain them.

Some typical MVT Deposit characteristics include:

- Lack of nearby bodies of igneous rock;
- Deposits typically laterally extensive, but thin;
- Major ore mineralogy consists primarily of low-Ag galena, low-Fe sphalerite, barite, and fluorite;
- Gangue minerals typically limited to dolomite, calcite, jasperoid, minor silica, barite, and fluorite;
- Low precious metal content;
- Occurrence is typically (with a few significant exceptions) as replacement deposits in dolomite or Mg-rich limestone;
- Typically occur at the margins of major sedimentary basins, at shallow depths, and in geologically passive areas; and
- Ore occurs as replacement deposits and as open-space fillings almost always in dolomitized limestone.

A summary of many of the most well-known MVT Deposits from around the world is included in the column on the right:

Well-Known MVT Deposits Worldwide

Africa

Morocco:	El Abadekta
South Africa:	Pering

Australia

Sorby Hills, Coxco, Lennard Shelf District

Europe

England:	Cumberland
	Halkyn-Minera area
Poland:	Northern and Southern Pennine Orefields
Yugoslavia:	Upper Silesia-Cracow
	Trepca

North America

Canada:	Daniels Harbor
	Eclipse
	Gays River
	Nanisivik
	Pine Point, Northwest Territories
	Polaris
United States:	Oklahoma-Kansas- Missouri – Tri-State District
	Missouri - Lead Belt, Viburnum Trend
	Tennessee
	Washington – Metaline Falls District
	Wisconsin – Schullsberg area

South America

Brazil:	Vazante
Peru:	San Vicente

References:

Guilbert, John M., and Charles F. Parks, Jr., 1986. *The Geology of Ore Deposits*. New York: Wilt. Freeman and Company, 985 pp.

Leach, David L., J.B. Viets, N. Foley-Ayuso, and D.P. Klein, 1996. Mississippi Valley-Type Pb-Zn Deposits, pp 234 - 243 in *Preliminary Compilation of Descriptive Geoenvironmental Mineral Deposit Models*. USGS OF Report 95-831.

Rice Museum NW Gallery Fundraiser (continued from page 1)

HOW PNWFM MEMBERS CAN HELP: Time helping at the booth and specimen donations will both be appreciated. The Wietings will certainly appreciate help and company at the booth at any point throughout the weekend. In addition the Wietings will be providing many specimens for the table; however, additional specimens are needed. There will be a wide range of mineralogical interest represented by visitors at the festival, so a variety of material is welcome, particularly small attractive specimens such

as Washington quartz (which virtually all PNWFM members have plenty of in their collections). Aaron Wieting will be accepting specimens and will be present at the various PNWFM General Meetings this year (see p. 4 for the schedule). Specimens not sold at the festival will be donated to the Rice Museum Gift Shop or saved for next year's festival. Please contact and coordinate with Aaron to help at the booth or to donate specimens (phone 503-284-5361, e-mail pdxpounder@hotmail.com).

Lanny Ream Presented with Noble Witt Award

As presented in the 2004 Symposium Report, Lanny Ream was selected as the recipient of the Noble Witt Award for his continual support of the PNWFM Chapter and mineral collecting in general. Virtually all members have experienced, and had the opportunity, to appreciate Lanny's efforts and accomplishments as a member of our group, and in researching, discovering, and sharing mineral locality information.

Lanny has spent many years both in public sector work and as owner of LR Ream Publishing exploring the wilds in search of, and documenting, new and lost mineral localities. During his stints in the public sector, Lanny had the opportunity to explore classic localities in several western states including Utah and Washington. Some of Lanny's research and discoveries were published in the Mineralogical Record article on the Thomas Range in Utah, and in the Washington State issues of Rock & Minerals. Lanny is perhaps best known as the founder and former editor of Mineral News, a monthly newsletter for the mineral collector. Lanny recently sold Mineral News to provide more time to work on other projects. Though the new owner has taken Mineral News in new and interesting directions, many PNWFM members miss the Northwest flavor and focus on field collecting. Lanny is also known as the authority on Idaho mineral localities and has recently published the 2nd edition of Idaho Minerals.

Lanny has been a long-time supporter of PNWFM as a Symposium committee member and as Chairperson of two North Idaho Sympo



Lanny Ream (right) accepts the Noble Witt plaque from Aaron Wieting (left).

siums. He has also always encouraged field collectors to go discover new localities and has been very generous with locality information through publishing, writing, and sharing many collecting tales at PNWFM events. Congratulations Lanny!

2005 CALENDAR OF EVENTS

PNWFM Spring Meeting at the Rice Museum	April 23
PNWFM Spring Meeting at WWU, Bellingham, WA	June 4
PNWFM Summer Meeting in Coeur d'Alene	July 16
Washington Pass Clean-Up	August 13 - 14
Richardson's Ranch Field Trip	September 24
PNWFM 31st Annual Symposium	October 14 - 16

PNWFM Meeting Minutes, Sunday, September 26, 2004

The annual meeting was called to order at 10:30 am by President Aaron Wieting. There were 36 members present. Aaron began by thanking everyone involved in pulling together another successful symposium.

Treasurer's Report:

Bill Dameron reported a balance of \$11,001. He reported that National will raise dues by one dollar on January 1, 2005. This changes what we pay them for each member from \$5 to \$6. MSP for our local chapter to maintain current dues at \$15. Also, if you would like to receive your membership roster via email, contact Bill.

Webmaster's Report:

Jim Etzwiler reported that we have a website up and running at www.PNWFM.org. He reported that he has most of the club's history on the web and what's coming on the calendar. He would love information from members to add to the site.

ABC Project:

Lorna Goebel reported that this program is running; however, contributions are still needed. They have developed two games for kids to play. One of them is a BINGO game. A volunteer is needed to standardize the format for the mineral BINGO game. Also they need thumbnail minerals and 1" cubes to put them in. Most importantly, a continuous supply of hands on specimens for students is needed. Currently there are two cases of minerals and kits are in progress. The project is about a year away from being fully supplied and ready for teachers to use the kits. Another project for the kits is to make and then include mineral guides for the teachers. Any comments and suggestions, or offers to assist, should be directed to Lorna. MSP to donate \$350. to the ABC project to be used as needed.

Symposium Contest Winners

- Best Self Collected Specimen – Doug Toland
- Best Display Case – Diana and Bill Dameron
- Honorary Display Cases – Rice Museum and John Lindell

Future Events

- October 13 – 15, 2005, PNWFM Symposium
- Spring meeting in Bellingham
- Late summer meeting in Spokane or Coeur D'Alene
- Winter meeting at the Rice Museum

New Business:

There was a short discussion on whether to issue membership cards. Most members felt that it wouldn't be worth the time and expense. Our new historian, Wes Gannaway, will be keeping all essential records including the bylaws, minutes, and reports. He will also work with webmaster Jim Etzwiler to get more of the old newsletters on the website. We discussed the cost of event insurance. This year's cost was \$650 for the weekend. This does not cover theft. It holds the hotel harmless for anything that happens related to our event. Many localities are now requiring this insurance. We will research a less expensive option.

Next, we discussed ways to use our club funds to promote our club goals. First, we need to keep approximately \$9,500 in our account for annual expenses. Ideas presented: Color fund for Rocks & Minerals magazine, group membership at the Rice Museum, insurance liability for field trips, building fund for NW Gallery at Rice Museum, and promotion of club to gain new members. We discussed the field trip liability issue. National has researched this without any success. There is concern in clubs that if an individual is harmed while on a field trip that this individual would be able to hold the club and its officers liable. MSP that our club will no longer host field trips. A message board for members to discuss places they may be going to collect will be available in the newsletter or on the website. Next, we had Rudy Tschernich and Sharleen Harvey discuss how our club would be able to assist the Rice Museum financially. A group membership would provide individual memberships to all our club members, a 10% discount at the gift shop, one event at the museum, and 2 free passes per member to bring along friends or family. MSP for PNWFM to pay \$500 to Rice Museum for a group membership. Also, MSP to donate \$500. to the Rice Museum to assist in the development of the NW Gallery. This new gallery will be open in the spring. It will be 1,800 square feet and will feature individual displays on a six month to one year rotation.

Again, many thanks to all involved in the success of our annual symposium.

Meeting adjourned: 11:50 am.

Karen Hinderman, Secretary

2004 FM Symposium Displays

by Raymond Lasmanis (ray.lasmanis.wadnr.gov)

The 30th Annual Symposium, Pacific Northwest Chapter, featured skarn minerals and localities. It provided an opportunity to display material from two classic Northwest skarn localities: Vesper Peak in Snohomish County, Washington and Green Monster Mountain, Prince of Wales Island, Alaska. There were 16 cases in total, displaying the best from Vesper and Green Monster and also gave the members a taste of diverse skarn mineralogy from worldwide deposits.

Based on a vote of the attendees, the best display case at the symposium was by Bill and Diana Dameron titled "Garnets from Western Mali". Their case featured 21 specimens of garnet and faceted gemstones. The garnets, in composition from grossular to andradite, were attractively presented and ranged in color from orange, through cinnamon, brown, black, and bright green. The most spectacular specimen displayed was a 5" perfect dark brown dodecahedral crystal with lustrous faces from south of Sandaré, Nioro du Sahel. Some of my other favorite specimens shown from the same location were: two interlocked 4"x5" vesuvianite xls.; a bright green 2"x3" "stalactite" of prehnite on matrix; and a 1 1/2" bright green dodecahedral grossular xl. Some of the specimens were with 1" to 2 1/2" epidote xls. The case also had two perfect black 2" and 3" andradite xls. from Trantimou, near Sandaré. Interestingly, garnet xls. from Mali were virtually unknown before 1994.

A close second, for best case, was the display by the Rice Northwest Museum of Rocks and Minerals. The case contained 7 incredible specimens. The centerpiece was one of the best epidote crystal group (RM#3024) to come from Green Monster Mountain. The specimen was first displayed at our 1996 symposium by the finders, Doug Toland and Tom Hanna. The specimen, weighing 15 lbs., was collected in 1995 from the "Papa" pocket, measures 10"x 11", and is covered by very lustrous 1/2" to 2" epidote xls., occasional, clear, 1/2" to 1 1/2" quartz xls., and 1/4" titanite xls. Perched on this crystallized matrix are three, very large, lustrous 2 1/2" x 3 1/2" epidote xls. and two white 3 1/2" calcite xls. The specimen is illustrated (Figure 40, page 404) in the recent issue of the Mineralogical Record. From Idaho, the case had two 1 1/2" x 2 1/2" x

3 1/2" high, compound, single ilvaite xls. (RM#1297 and RM#1298) from the Golconda mine, South Mountain, Owyhee County. From Washington state, a 2 1/2" x 3" lustrous grossular xl. group (RM#3413) and a vug lined by 1/2" to 3/4" xls., including a 1 1/4" xl. (RM#3146) was displayed from the Vesper locality and an 8"x12" group of 3" goethite cubes with minor octahedral modifications after pyrite from Denny Mountain, King County (RM#3271). From a little known locality, there was displayed a spectacular 10"x14" specimen covered by up to 1/2" dark sphalerite xls., occasional galena xl., and shiny 1/4" to 3/8" grossular xls. the El Mochito mine, near Las Vegas, Santa Barbara Dept., Honduras (RM#3119).

Also a close second, for best case, was a display by John Lindell dedicated to his 24 years of collecting at Vesper Peak, Snohomish County, Washington. We were treated to 44 specimens and photographs of the breathtaking scenery taken from the skarn location. The centerpiece was a spectacular 4 1/2" x 10" specimen covered by 1/2" to 1" grossular xls. (#3140, coll. 9/11/98). His earliest specimen (#156) shown, was collected by Jack Zektzer (9/1979) and contains titanite, clinozoisite, and grossular. Some of the early specimens collected by John were: a 1 1/4" titanite xl. on hedenbergite (#569, coll. 10/4/80) and a 3/8" x 1" light greenish-tan apatite xl. (#243, coll. 10/4/80). From near the main Vesper Peak skarn, John displayed axinite xls. on tiny quartz xls. collected by Bart Cannon (8/17/81) from the Teenage Crush skarn pod. Some of the other very beautiful specimens from the main Vesper skarn were: drusy, clear, golden orange grossular xls. on a 1 1/2" x 2 1/2" quartz xl. (#1693, coll. 8/21/93); individual, bright orange grossular xls. with clinozoisite on hedenbergite (#1850, coll. 9/18/94); very bright 1/2" grossular xls. in a 2" x 2 1/2" group (#2542, coll. 9/11/98); a extraordinary 3 1/2" x 6" quartz xl. with two prism faces coated by drusy olive brown grossular xls. (#3139, coll. 8/12/02); and, from the same vug a 3" x 6" compound quartz xl. with drusy grossular (#3344, coll. 8/23/03) and a 3/4" x 2 1/2" long terminated laumontite xl. (#3341, coll. 8/23/03). The case also contained large prehnite xls., a calcite xl., chalcedony, and quartz casts from Vesper. For reference see Bart Cannon's article in Rocks & Minerals, Vol. 66, No. 6, Nov./Dec. 1991, page 478.

Doug Toland presented a case with 44 specimens dedicated to many years of collecting with Tom Hanna at the Green Monster Mountain skarn in Alaska. The epidote specimen that caught everyone's eye was an absolutely classy group of two $1\frac{1}{2}$ " x 3" lustrous xls. on quartz xl. matrix and owned jointly by Doug and Tom (Tom Hanna found the specimen). I also like the group of bright, sharp hexagonal $\frac{3}{4}$ " clintonite xls. on a $2\frac{1}{2}$ " x $4\frac{1}{2}$ " matrix collected more than 10 years ago and displayed during our 1996 symposium. From a recent find (Sept. 2004), the case contained a 2" x $3\frac{1}{2}$ " long, green quartz xl. with included byssolite and single, doubly terminated, green quartz xls. up to 3" long. Also, in the case, there was a nice display of Japan-Law twins with one very nice twin, 4" point-to-point, that was collected on October 7, 1971- the oldest specimen in the case. Other specimens were: up to $1\frac{3}{4}$ " (octahedral faces predominating) goethite pseudomorphs after pyrite; hematite roses 3" across replaced by magnetite; radiating groups of very attractive jackstraw epidote; $1\frac{1}{2}$ " to 2" grossular xls.; a 2" calcite xl. on matrix; scapolite group xls.; actinolite; hercynite; and massive pink rhodonite. From nearby Copper Mountain there was a $2\frac{1}{2}$ " green quartz xl. Incidentally, Doug won the best self-collected competition with a large green quartz xl. from Green Monster Mountain. A number of the displayed specimens are illustrated in the recent, comprehensive article on Green Monster Mountain by Doug in the Mineralogical Record (Sept.-Oct., 2004, Vol. 35, No. 5). Thanks, Doug, for bringing the specimens down from Alaska.

Aaron and Jade Wieting had a case titled "Self-collected skarn specimens from Owens Valley, California, Montana, and Oregon". The display was very well done with photographs of the localities and a selection of 35 spectacular specimens. Representing the Northwest, the following specimens were displayed: from Bald Mountain skarn, Jefferson County, MT, $\frac{1}{2}$ " diopside xls. on 5"x6" matrix and unknown tabular $1\frac{1}{4}$ " x 2" long xls. replaced by quartz on $3\frac{1}{2}$ " x 4" matrix; from LeGore mine, Wallowa Mountains, Wallowa County, OR, two specimens of garnet-epidote-amphibole and a 2" x $2\frac{1}{2}$ " axinite xl. on matrix. The most eye-catching specimens were two very large 10" x 16" cabinet pieces with cavities contain-

ing radiating epidote sprays up to 4" long and 3" wide on small brown garnet xls. from the Merrill Prospect, Coyote Ridge, Inyo County, CA. The case also contained several specimens of really nice, 1", bright, complex garnet xls. lining 4" to 5" vugs from the Tungsten Blue Mine, Tungsten Hills, Inyo Co., CA. Other specimens in the case from CA skarn localities were hematite, magnetite, vesuvianite, and hedenbergite. The Wietings are to be commended for some great collecting.

To accompany his Saturday lecture, Ray and Cynthia Grant put in a display of 36 specimens featuring the Dal'negorsk mining district of Russia. There were objects d' art made of banded green hedenbergite, datolite, and wollastonite skarn. The case contained a variety of fluorite xls., beautiful light green datolite xls., very pale green to clear quartz xls. resembling beta-quartz, long orange quartz xls., and various sulfides. Specimens in the case were from the following mines: Nikolaevsky, Second Mikolaevskiy, Danbury, Verkhniy, and the Bor pit.

Donald Grybeck lectured on Lost River, Brooks Mountain, Alaska tin skarns and put in a display of 25 specimens to illustrate his presentation. The case contained black paigeite from the type locality (Bessie & Maple prospect), a veinlet of manasseite, microcrystals of green metazeunerite in a vug, and specimens of various skarns such as topaz-rich skarn, fluorite skarn, and orbicular skarn containing garnet, hornblende, vesuvianite, epidote, and magnetite.

Lorna Goebel put in a educational case illustrated with 25 small specimens representative of the Dana classification garnet series: Pyralspite, Ugrandite, Schorlomite-Kimzeyite, and Hydrogarnet. Lorna had several specimens from the Washington: garnet pseudomorph from the Bessemer claim, King County; a $3/8$ " grossular xl. from Denny Mountain, King County; a 1" specimen of grossular from Vesper Peak; and, tiny andradite xls. from Clark County.

Lorna Goebel put in a second case titled "ABC's of Minerals". The case illustrated the materials that are being prepared for the school education ABC Project with

2004 FM Symposium Displays (continued from page 7)

Lorna as the Chair for FM and Rusty Etzwiler as the Co-Chair. For the NFMS, Toby Cozens is the Chair and Marc Cimolino as Co-Chair. The case materials were: a set of 26 thumbnail-sized minerals that will be loaned by the NW Federation to schools; hands-on specimen set; name the mineral game; Moh's hardness testing set; and a mineral bingo game.

Rudy Tschernich put in a display of 7 superb museum-quality zeolite specimens from India. From Sangamner, Ahmednagar District, Maharashtra State there was a 14"x18" specimen covered with very pale greenish heulandite xls. with white, radiating sprays of scolecite 2 1/2" high; a 6"x8" group of acicular 3/8" thick xls. with calcite; and, clear, 1/4" thick and 4" to 5" long scolecite xls. in radiating sprays on 10"x10" matrix with fluor-apophyllite. There was a spectacular spray of 1/2" thick and 8" long scolecite xls. from Chalisgaon, Jalgaon District, Maharashtra State. Also from the Jalgaon District there was a quartz-lined 5"x8" cavity lined very bright pink 1 1/2" heulandite sprays. From Shakur, Aurangabad District, Maharashtra State, there was a very unusual 4 1/2" x 6" group of green, compound, curved, 2 1/2" x 4" heulandite xls. resembling "bowtie" habit and also from Aurangabad District, curved, 2 1/2" x 3 1/2" stellerite group on 6"x10" matrix.

Caleb Simkof displayed 13 silver bearing minerals from world wide localities. Of special note, there was a 1/2" x 3 1/2" long, curved rams' horn native silver group from the Uchachaqua mine, Peru and a 1/8" x 3 1/2" wire of native silver from Kongsberg, Norway. The case also contained a nice group of pyrargyrite xls. from the La Rose mine, Ontario, Canada.

Jennifer Starr displayed 19 specimens of various species from world wide locations. There were three specimens from Oregon: a stilbite xl.; apophyllite from Cascade Locks; and, aragonite from Clackamas River.

Robert O. Meyer submitted an impressive case with 38 choice specimens from skarn localities. The center piece, formerly in the Paul Rhodes collection, was a 10"x16" plate of 1/2" dark brown, scalenohedral calcite xls. on which was perched a radiating group of 1" to

1/2" calcite xls. from Santa Eulalia, and from Naica, an excellent specimen of hubeite, both localities in Chihuahua, Mexico. My favorite specimen, from the former Jean Hamel collection, was a pale yellow green 3" vesuvianite xl. from Ludwig, Lyon County, NV (#2472). From the Trotter Shaft dump, Franklin, NJ, (zinc deposit altered by skarn process) there was a 1/2" x 1 1/4" rhodonite (var. bustamite) on matrix and specimens from a skarn-altered manganese deposit, N'Cwhaning II mine, Cape Province, South Africa. From Mega Xhorio, Seriphos, Greece, the case had very nice quartz xls. From the Northwest, Bob displayed 1/2" Japan-Law quartz xl. twins on 2"x3" matrix from Denny Mountain, King County, WA, and, found in 1992, very nice cobaltite xls. on 1 1/2" x 2" matrix from the Merry Widow mine, Benson Lake, near Port McNeil, BC.

Jim and Rusty Etzwiler presented a case titled "Colors and habits of Wulfenite from Los Lamentos". The case contained 19 wulfenite specimens, from thumbnails to 4" x 6" matrix pieces, ranging in color from transparent yellow through orange to chocolate brown. The specimens exhibited various crystal habits from paper-thin 1/2" yellow xls. to blocky orange xls. The locality is Erupción/Ahumada mine, Sierra de Los Lamentos, Chihuahua, Mexico.

Sharleen Harvey displayed outstanding and colorful copper minerals from world famous localities. My favorite specimen was up to 1" platy, clear barite xls. standing on botryoidal malachite, Erongo Mountains, Republic of Congo. Also, from the Republic of Congo, there was an outstanding 4" x 5" specimen of bright green diopside xls. Another eye catcher was a 6" x 16" group of branching native copper xls. from Ajo, AZ. I also liked the Tsumeb, Namibia specimen of 1" to 1 1/2" long, shiny, azurite xls. on 2 1/2" x 3 1/2" matrix. Color wise, the 1/2" brilliant green xls. of torbernite on 2 1/2" x 4" matrix from Musonoi, Zaire, jumped out at the viewer. From the Northwest, Sharleen had three specimens from Butte, MT. They were: 3/8" to 1/2" enargite xls. on 3 1/2" x 5" matrix; tenantite xls. in a 2" x 2 1/2" group; and, a nice specimen of up to 1" tabular covellite xls. on 2 1/2" x 3" matrix.

Raymond Lasmanis featured skarn mineral localities, with 55 specimens, representing 50 years of mineral collecting. The case contained some of his first minerals collected at the Buckwheat mine dump, Franklin, NJ in 1954 as well as grossular garnets collected just one month before the symposium. From the Northwest, the following Vesper Peak, WA material was displayed: single, clear 3/8" dodecahedral grossular xls. perched on 2" x 3 1/2" hedenbergite matrix (#2214, coll. by Bart Cannon, 1982); grossular xls. on 2 1/2" x 3" matrix (#2214, FM auction, 1990); up to 1/2" grossular xls. lining 2" x 3" vug (#2214, coll. by John Lindell, 9/11/98); a single clear orange red grossular xl. on 2" x 2 1/2" matrix (#2214, coll. 8/23/03); drusy grossular xls. coating one side of a clear 1" x 2 1/2" quartz xl. (#3033, coll. by John Lindell, 8/23/03); acicular clinzoisite xls. on 2" x 2" matrix (#3048, coll. 8/29/04); molybdenite on 1 1/2" x 2 1/2" matrix (#3051, coll. 9/23/03); hedenbergite as a single xl. 2" xl. (#3049, coll. 9/23/03) and 1/2" xls. on 2 1/2" x 4" matrix (#3049, coll. 9/23/03); a group of pale green, up to 1" prehnite xls. (#3050, coll. 9/23/03) and a single 1 1/2" xl. (#3050, coll. 9/29/04); and, biotite on quartz, 3 1/2" x 4" (#3053, coll. 9/29/04). Another WA locality well represented in the case was from a skarn on the Spokane Indian Reservation near Fort Spokane: from the Upper cut, up to 1" grossular xls. lining vugs on a 10" x 12" specimen (Geology & Earth Resources specimen and coll. by R. Lasmanis, 9/12/84); up to 3/4" diopside xls. on grossular 3" x 4" matrix, Upper cut (#2299, coll. 9/12/84); up to 1" orthoclase var. adularia xls. on 3" x 4" grossular xl. matrix, Upper cut (2298, coll. 9/12/84); and, from the Lower cut, up to 3/4" long vesuvianite xls. with 1/4" grossular xls. in vugs, 2 1/2" x 3 1/2" matrix (#2297, coll. 9/12/84). Also from WA state: from Lower Denny Falls, King County, two 2" x 2 1/2" groups with 3/4" grossular xls., a larger specimen with a vug containing 2" grossular xls. and 1" quartz xls. (#2781, coll. 9/30/04), and 1" platy specular hematite on grossular (#2782, coll. 9/30/04). Additional WA specimens displayed: up to 1 1/4", sharp, modified, dodecahedral magnetite xls. lining vugs on 5" x 6" matrix, Neutral-Aztec claim, Buckhorn Mountain, Okanogan County (old-time spec. from Geology & Earth Resourc-

es coll.); erythrite coating 3" x 5" matrix, North Gold Wing zone, Buckhorn Mountain, Okanogan County (#2568, coll. 10/30/89); lustrous grossular xls., 1/4" to 1/2", on 2 1/2" x 3 1/2" matrix, Red Wall, Denny Mountain, King County (#2304, coll. 8/29/84); and, orthoclase, var. adularia as 1" xls. on 1 1/2" x 2 1/2" matrix, above Red Wall, Denny Mountain, King County (#2305, coll. 8/29/84). From Idaho: 1 1/2" andradite xl. Garnet Creek deposit, Stibnite (#2197, coll. 9/29/81); a very lustrous, doubly terminated, 1/2" x 1" ilvaite xl., Laxey mine, South Mountain, Owyhee County (#1119, from Kent Burson coll.); and, a group of two 2" magnetite xls., Spring Mountain District, Lemhi County (#2909, coll. by Lanny R. Ream, 7/98). From MT: a 2" long terminated epidote xl., Calvert Hill mine, Wise River, Beaverhead County (#2906, coll. by Lanny R. Ream, 1998) and a 1" blue spinel octahedron in white grossular/vesuvianite matrix, Crazy Sphinx claim, Helena (#2213, coll. by Bart Cannon, 1982). From Green Monster Mountain, Alaska: a 2 1/2" x 3" twinned xl. (#2212, coll. by the late Clay Rasmussen in 1977, then to David Hill coll.); 1 1/2" long, lustrous epidote xl. (#2212, coll. by Doug Toland, 1982); a very lustrous, doubly terminated, 1/2" wide by 1 1/4" long xl. (#2212, coll. by Doug Toland, 1982); and, up to 1" clear quartz xls. with epidote on 1 1/2" x 2" matrix (2395, coll. by Doug Toland, 8/13/86). Finally, from BC: two, green, 3/8" x 1 1/4" quartz xls., Prescott pit, Texada Island (#2011, coll. by George Sulyma, 1970) and unusual fibrous radiating magnetite from the Merry Widow mine, Benson Lake, near Port McNeil (#1909, coll. by Ken Northcote).

Thank you, everyone, for contributing to the success of the symposium by submitting great exhibits.

(And a big thank you to Ray for one again providing such wonderful descriptions and documentations of the 2004 Symposium displays. We recognize and appreciate the time it takes to assemble such detailed information!)

PLEASE PAY YOUR 2005 DUES

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