“Up and Coming in Ontario”
Gem and Mineral Show
68th Annual NFMS Show & Convention
June 20-22, 2008

Four Rivers Cultural Center, Ontario OR

Dear Fellow Rockhounds,

Welcome to “Up and Coming in Ontario” Gem and Mineral Show in Ontario, Oregon. The county is rich in historical resources that we are drawing upon for our show. We hope you will take time to investigate this rich heritage, and that attending this show will be a rewarding experience for everyone.

Our show “Up and Coming in Ontario” will be held at the Ontario, Oregon, Malheur County Fairgrounds. They are offering lots of rooms and on-site camping facilities. We are meeting with the management, and they are helpful and are working in every way to help make our event a success.

Convention meetings and meals will be held at the Malheur County Fairgrounds Multi-Purpose Room.

The Ontario, Oregon hotels are all within a mile of downtown and some have online booking. See the March issue for listings. Save gas and bring the high mileage vehicle. RV hookups (water & electricity) are available at the Malheur County Fairgrounds.

The Stallknecht-Morgan Museum Gem & Mineral Society, Inc. appreciates the help and assistance of the Ontario Visitors & Convention Bureau and the Ontario Chamber of Commerce in the preparation of the show packets. Please note that there are many places to explore in and around the Ontario area. These could include trips to Oregon Trail Ruts, Lake Owyhee, Leslie Gulch, Three Fingers Gulch, Jordan Craters and Lava Beds. Or, how about the Oregon Trail Interpretive Center in Bend, or the Geler Grand Hotel?

We hope you plan a vacation around this event. The Stallknecht-Morgan Museum Gem and Mineral Society, Inc. Show Committee and the area’s Visitors Bureau are working to help make your visit and stay an enjoyable one. There will be plenty of things for you to do both before and after the show. Enjoy eastern Oregon and western Idaho and their many historical and mineral treasures!

Keene Clay
Field Trip Chair

The NFMS Newsletter will be running summaries of scheduled field trips. The NFMS Newsletter will only list the ones that are submitted by the host club or trip leader. General information about the date and location will be given. The number of people on each trip can be limited if the field trip leader chooses to do so.

If your club is planning a trip to a location that can support a few extra participants, send information to the editor at nfmsnews@verizon.net or contact Keene Clay at odroc@comcast.net and I will forward the information.

The information should include Date, Location, Material to be collected, Contact person or Trip leader, and how you want them to contact you and any costs or deadlines for the scheduled trip. You can give specifics such as meeting place and necessary equipment when they contact you. Some locations lend themselves to larger groups and longer trips. Locations such as Saddle Mountain, Jackpot, McDermitt, Glass Buttes, the Ochoco Mountains, Davis Creek, Ashwood, Pink limb and others can take almost unlimited number of participants.

Help us share these and others that you may know.

Field trips are the cornerstone of our hobby. If there are no chances to collect, rockhounding will have a short future. If new members don’t get out with other experienced rock hounds, they may not stay involved.

Fortunately, there are many places to go if we know how to get there and what to look for. Field trips are the best way for experienced collectors to share their knowledge of locations and materials with people that are new to the hobby or new to a given area. When we invite others to share in our trips, the pool of leaders increases, we meet new people with information about other sites and we make new friends. Everybody wins.
NORTHWEST FEDERATION EXEC. OFFICERS 2007-2008

PRESIDENT: Patty Amos, Mt. Hood Rock Club, 15523 NE 215th Ave, Brush Prairie, WA 98606, (360) 892-3716, packrats2@alt.net

1st VICE PRESIDENT: Paul Heesacker, Tualatin Valley Gem Club, 4145 NW Heesacker Rd., Forest Grove, OR, (503) 357-8804, heesacker@comcast.net

2nd VICE PRESIDENT: Evelyn Cataldo, Lakeside Gem & Mineral Club, 153 Spring St., Richland, WA 99354-1651, (509) 371-1572, nfmsnews@verizon.net

EXECUTIVE SECRETARY: Janay Day, Golden Spike Gem & Mineral Society, 509 Highland Blvd., Brigham City, UT. 84302 (435) 723-3830, jdaynd@sinaz.rr.com

TREASURER: Lyle Vogelpohl, Mineral Society, 509 Highland Blvd., Brigham City, UT. 84302, (435) 723-3830, mommy@bcs.net

EXECUTIVE SECRETARY: Karma, Mt. Hood Rock Club, 1475 Russell Rd., Walla Walla, WA 99362, (509) 529-3673, edwards@wicc.org (committee created Aug, 2005)

ROCKHOUND OF THE YEAR: Viola Jones, Skagit Rock & Gem Club, 200 SE Olvera Ave., Mount Vernon, WA. 98273, (360) 424-8340, rockxs161@george@verizon.net

AMERICAN LANDS ACCESS ASSOCIATION (ALAA) is a 501(c)(4) organization. Its purpose is to promote and ensure the right of amateur hobby fossil and mineral collecting, recreational prospecting and mining, and the use of public and private lands for right of amateur hobby fossil and mineral collecting, recreational prospecting and mining, and the use of public and private lands for

To NFMS Scholarship Chairperson for:
1. Donations to NFMS Scholarship Fund
2. Donations to Junior Achievement
3. Donations to Junior Achievement
Send to: Lyle Vogelpohl, see Treasurer this page.

To NFMS Endowment Fund Treasurer for:
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Make check payable to NFMS Endowment Fund Treasurer is an open position. Should ask Edna Nelson who she wants the funds be sent to.

To NFMS Scholarship Chairperson for:
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2. Memorials contributions
3. Donations to NFMS Scholarship Fund
Send to: Rose Alene Mr Arthur (see Scholarship this page).

To NFMS Endowment Fund Treasurer for:
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Make check payable to NFMS Endowment Fund Treasurer

To: Norma W. Hanschu, NFMS Treasurer, 6607 Sturbridge Ln, Canton, MI 48187-2638

 Adams for the Northwest Newsletter are $1.50 per square inch. Example: 3” x 4” ad = 12 inches 12 inches x $1.50 = $18 per issue of the Newsletter

/fsads on colored paper because the background will look gray in the ad. For more information or questions call, e-mail or write the Newsletter Editor (printed online on this page).
Patty Amos
NFMS President

Dear Federation members,

The Holidays are now behind us, and I hope everyone had a safe and happy holiday season. Hope most of you were able to spend the holidays with your families. If I have not contacted you about your chairmanship, I will be getting hold of you as soon as I can get the time. I never seem to have enough hours in my days. It sounds like the Ontario show is going along smoothly at this time. I hope it will continue to go that way. Our combined AFMS/NFMS show is moving forward with Billings hosting the show. From all of the different things that I have heard that they are planning on having there, it should be a very good show and one you will not want to miss. I know I don’t plan on missing it.

We will be having a Tri-Federation rock-hounding trip over Memorial Day week, at Texas Springs, near Jackpot, NV. There will be future info in the newsletter with more details to come. If you would like to see other Tri-Federation trips and have some interesting ideas about where to go, contact Dick Parks (360) 892-3716. He is working with Dick Pankey from the California Federation to put on these trips. Looks like most of my rock hounding adventures are over for a while. I will be going to the Beach in February, so I may have something to write about white there.

We will be in charge of the silent auction and the oral auction at the Federation show in Ontario this coming June. If you have any rocks you would like to donate, please plan to bring them to the show. Please label them so we can give as much information as possible to the people looking at them. I will be putting more into the newsletter about the auctions. I would just like to get the word out and remind all of you if you are out rock hunting; remember to pick up a small bucket of rocks for the auctions. Hope to see some of you at the upcoming shows.

Evelyn Cataldo
NFMS 2nd V.P.

January Greetings,

Need a new idea for a club field trip? My Club tried something new that turned out to be a great success and there is talk already of another field trip of this kind. We rented a 47 passenger bus, filled it with Club members and journeyed to Hillsboro, Oregon to the Rice Museum. The Rice Museum is approximately four hours from the Tri-Cities. The group consisted of new Club members, older Club members who no longer are able to do a traditional field trip, and a batch of regulars. There was plenty of time for getting to know each other, for games, prizes and snacks. The Museum was an awesome experience for all. Dinner was at The Dulles and then on home. The scenery was fantastic, the rock and mineral museum inspiring and the camaraderie exceptional!

If your Club has done something different for programs, events or trips, send me an e-mail and tell me about it so that we can share ideas with other Clubs. My e-mail is: ecataldo@chadams.com.

Please label them so we can give as much information about the auctions. I have been accepted as Education Chairwoman for another year. Thank You Patty! The sale of T-Shirts was good at the show. I sure love rock hounding this time of the year with all of the low grass; it makes the best rock easier to find. If you dress warmly in layers, it will make for a fun day.

The new club in Ontario is doing well and growing each month. We have started a new club in Vale, OR, now with 12 people the first meeting. I’m glad to see a lot of families with interested children. The club in King Hill is doing well, also. I have had 9 more schools call and ask me to come and talk about rocks. That will put me up to 200 schools this year so far. The teachers at the Idaho Science Teachers’ Conferences are really getting into the rock mode. I went to Mount Vernon to the thunderegg lecture and to Roseburg and talked to their club about the Federation Show coming up. I will be in Ogden at their show in March. Thank you to the Clubs that keep me informed via E-mail. I would love to hear from more of you! Please feel free to add me to your list, mestalknecht@yahoo.com.

2008 Show Report

Thank you for all your wonderful responses. I hope to see a big turnout for the show with a lot of you planning your vacation time the week of the show. The advance registration is now on the club’s web site, and Holiday Inn has given us a reserved block of rooms. My committee heads are growing now that Micron has laid off so many, and some of my teachers have retired that I have been working with for the past 15 years. My new store in Vale is doing well when I can be there. It, in its self, has been the best advertisement I could have asked for. We are getting people from all over the world stopping and telling their rock stories. We have been able to move a lot of used equipment to the new generation of rockhounds. They are really building excitement about the up-coming show in 2008. I hope to hear from you all that you would like to participate in some aspect of the show. Remember the rocks for silent auction & used stamps. There will be a country store, so bring goodies for that too. There is a whole building going to be set up for the kids of all ages. I’m sure Gary Buh will need extra supplies this year with the three new clubs. The schools we are talking with and the teachers coming on board make me hope for 1000 kids to come in to see the show and go home and spread the word. So, let’s all pull together and have a good time.

Barbara Jacobsen-Club-At-Large

Judge Training at Hancock Retreat

The first NFMS judge training class met in September 2007 under the leadership of Lamar Tilgner. Both the Portland Regional group and the Spokane Rock Rollers sponsored an attendee at the sessions by offering a grant or scholarship to pay the fees for the Retreat. The two attendees were Stephan Petkovsek from the Mt. Hood Rock Club and Leigh Klettke from the Spokane club.

Lamar and Peggy Blickfeldt led two full days of classroom attention to the AFMS Uniform Rules. The second part, where I joined in, consisted of one and a half days of practice judging and discussions of the judging process. The four practice cases, provided by Lamar, Russell Snook, and me, were C-1, C-2, G-3 and an educational case. Later on, some examples of wirewrapping were examined, too. The exhibitors sure didn’t get off lightly!! The laughter and groans grew so loud at one point that other people came to see if we needed medical attention! I confess to a real learning experience – informative and great fun.

Both of the attendees are rockhounds, though neither of them has ever competed yet. Both have, however, expressed an interest in competing. At the conclusion of the Retreat, both were given a certificate that stated that they had completed a course designed to prepare them to participate as a junior member of a judging team within their area of expertise. In fact, after the Retreat, both Leigh and Stephan participated as junior members of a judge team at the Portland Regional in October. They both, along with the experienced judges, reported positive experiences.

We hope for several more attendees at the next Judge Training Class in 2008, and we thank the Portland Regional and the Spokane Rock Rollers for their support. We hope they will continue to sponsor members to learn about the Uniform Rules, and we hope other clubs will also join in. In the July Northwest Newsletter, Keene Clay commented on the passing of the guard – that is, the pioneers of our hobby are slowly slipping away. This certainly includes our judges. In this connection, one could not fail to notice the loads of energy, stamina, and good eyesight that Stephan and Leigh brought to the judging process. I hope the NFMS will continue to support the Northwest Retreat at Hancock. It surely is worthwhile.

Wanted: Display Cases

Does your club have any Federation display cases they would like to sell? We are growing and can use some new ones to add to and replace some of ours. Please call Ron Passage at (509) 967-9342 or Steve Shoemaker at (509) 545-0522. You can also write to Lakeside Gem and Mineral Club, P. O. Box 6652, Kennewick, WA 99336.
Memorials
Marcus Whitman Gem & Mineral Soc.
Walla Walla, WA
Submitted by Jack Edwards
Federation Director

As time moves on our older Club members, many who established or were early members of the Club, pass on. Below are three who were active members and are to be remembered. All were life members of our Club. Their knowledge and advice will be missed.


Marilyn was an active Life Member of our Club since 1964. She was our Club President for three terms, Secretary for fourteen years, Editor of our Club newsletter, the Rock Licker, for three years and Chairwoman of our annual gem and mineral show for five years. Marilyn and her husband enjoyed field trips to the Oregon Coast and the lapidary arts. She was also our Federation Director for several years and collected stamps for the Federation Stamp Drive. Her advice and help with the Club functions will be missed.

Marilyn was a native of Walla Walla and graduated from High School here. She is survived by her husband Doug Anderson.

Merna Young – February 16, 1914 – November 28, 2007

Merna was a Life Member of our Club and had been a member since 1971. She was always active and ready to serve her Club in any way, even after her husband, Alfred, passed away. She always attended the Club Shows and helped where she could. The Club could always count on her for outstanding displays. Merna was our Show Chairwoman for two years and Club Treasurer for eighteen years. She and her husband Alfred were avid rockhounds and traveled the Pacific Northwest on rock hunting expeditions, either by themselves or with the Club. Rocks became their true love with Alfred cutting and polishing and Merna setting the stones to make jewelry into pins, necklaces, earrings, rings, bolo ties and belt buckles.

Merna was born in Pomaroy, WA where she graduated from Pomaroy High School in 1931.

Wilbur Sterling Wagoner – February 12, 1918 – December 3, 2007

Wilbur was one of our most active Life Members and had been a member of the Club since December 1966. He held the position of Club Librarian and did short book reviews on material in the Club library. He was active in the Club Annual Show and headed up the children’s Mine Dig activity for years. He was always available to teach old and new members the techniques involved in making cabs. At our past Annual Christmas parties, Wilbur provided the table center pieces.

Dee Holland
Rules Chair, 2008

Are You Planning to Exhibit Competitively at Ontario?

First, let me tell you that California has led the way in putting competitive exhibits in for the past three years! That’s some feet in itself. We all love to brag at the AFMS show each year that our federation has done well with competition; let’s see what NFMS can do at Ontario in June, 2008. Maybe 2008 will be the year that NFMS can take the bragging rights.

We will be using the current AFMS Uniform Rules updated through 2008, and you can get copies from the AFMS website: amfed.org. There was only one update for 2008 and it was in Petrified Wood, G-10.

Open Division A – This is a category that takes exhibits that usually don’t fit in other areas of competition. Example: gemtrees, mixed displays

Minerals Division B – There are numerous categories in this division from cabinet size minerals to self-collected, to thumbnails and even micromounts (which need photos of the minerals and are judged under microscopes). Check it out.

Lapidary Division C – This includes cabochons, carvings, faceting and specialized lapidary. Intarsia comes under this category.

Jewelry Division D – This includes all metalsmithing, fabrication, casting and wirewrap, to name just a few.

Education Division E – This has two distinct categories, “How to” and “Concept”. Look up the rules on this one; it’s a really fun category.

Fossil Division F – No, you can’t put an elderly family member in this category! It’s only animal and plant life.

Petrified Wood G – Does this really need an explanation?? This includes lapidary and non-lapidary treatment but it also includes plant life. If you’re really into fossils you’ll know about both the above division and also this one.

Scrimshaw H – This is done WITHOUT THE USE OF MOTORIZED TOOLS. Read more about this interesting art form.

Ultra-Violet UV – Without a blacklight you’re in real trouble! But, this is certainly one of the most beautiful and least known categories.

Now that I’ve whetted your appetite, consider what you have in your collection and let’s make this a banner year for competitive exhibits.

What can the NFMS Rules Committee do for you? Let us know. We stand ready to help individuals and/or clubs prepare for Ontario.

Dee Holland, Chair, beauholland@salmoninternet.com
Joe Slouber, Judging Chair JoeSlouber@in-tch.com
Rocky McCall, Registrar, rm7111@tri.net

Return your competitive applications to Rocky McCall, Registrar, 8330 272 St. SW, Stanwood, WA 98292. Deadline is JUNE 1, 2008, no exceptions.

On the Advance Registration form there is a listing for a Judges & Clerks Breakfast. If you choose to attend this breakfast, it is not part of the judges and clerks early morning meeting before judging begins and is not mandatory. Judges meeting will be 9am at the show site, and we will begin judging promptly after the meeting.

Before long your monthly (some bimonthly) club bulletins will be sent out for judging—about the end of the year. Then, in the spring you all will receive notice regarding the Awards Banquet & Editors Breakfast. That will happen at the Northwest Federation annual show in Ontario, Oregon, June 20-22.

All of the bulletins I receive are really well presented, and we read each one thoroughly. Again this year I have met several more of the editors. So, a face can be added to the names. Keep up the Good Work. Any other editor wishing to send me even one of your bulletins, please do so. If you do NOT wish them judged, they won’t be, just enjoyed. Thanks again & hope you had a super HOLIDAY.

NFMS BULLETIN AIDS
Darlene Denton
5830 Haddon Lane
Anacortes WA. 98221-4332
360-588-0217
Learning to Build a Gold Mill

by Bob Bristow

In the last article on my gold mine, I had proven that there was a large deposit of gold and copper and that rich pockets could be found. The next step was to determine how to get the gold and copper out of the ore. In order to have plenty of ore to experiment with, I shoveled nearly two tons of ore onto my pickup and slowly drove home. (Two trips of one ton each would have been a lot smarter!) I stopped at the little town of Sultan to have some dinner. As I got out of my old pickup, a shiny new one pulled into the space beside mine. The driver got out and looked in the back of my truck. “Is that ore?” He asked. I said, “Perhaps.” (Gold-bearing rock is not “ore” unless it can be extracted at a profit.) He then said, “How are you going to process it?” I admitted I didn’t know yet. He stayed at me for a moment, and then turned to go into the restaurant. As he turned, he sneered and said to his partner, “He doesn’t even know what he’s going to do with that trash!” I felt better after I concluded that he talked that way because I had the gold ore and not him.

My next stop was at the library to find out how others extracted gold. I found three general approaches: gravity, flotation, and leach. I decided to first try the gravity approach. The heavy minerals can be separated from the waste rock by using a shaker table, centrifuges, or spirals such as the Humphrey Spiral. (Panning is far too slow to use in a commercial operation.) I decided to use a shaker table since it was the least expensive and could also be used for some gemstones. Shaker tables work only if the minerals you want to collect are all heavy and all of the waste rock is light. My ore had about even amounts of chalcopyrite and pyrite. I knew that most of the gold was in the chalcopyrite and the pyrite contained several ounces per ton of silver. I hoped that the silver would pay for smelting the pyrite and I wouldn’t have to separate out the pyrite.

A shaker table was something else that I couldn’t afford, so more research on how to build one. The theory is pretty straightforward. A schematic of a typical shaker table is shown in Figure 1. There is a table surface covered by riffles. The table is on skids to that it can slide back and forth horizontally. A “bumper” jerks it in one direction and a spring pulls it back. The sliding and jerking is adjusted so that the heavy minerals dumped on the table will move with the table surface while the spring is pulling one way but will slip when the bumper jerks it. Meanwhile, the light minerals slide in both directions. The result is that a heavy mineral like pyrite will crawl toward one end while the light rock stays put. In order to dispose of the waste rock, the table is tilted as shown in the middle sketch in Figure 1. Water is released along the top edge of the table and runs down to the troughs at the bottom of the table.

Continued on page 7
13.) Zero tolerance for behaviors that disrupt your meeting. You are not volunteering for babysitting or daycare services at the Club Meeting. Fortunately, most of the Juniors are education-centered and are there to learn something about the content of their hobby. 14.) Keep it interesting and rewarding for each Junior by following their lead during the meeting. You cannot expect to run a rigid meeting. If they feel empowered, their interest will have staying power so that they will return for the next meeting, plus tell their friends. It is exciting to have 2 or 3 Junior Guests at each meeting, even if one comes back and joins the Rock Club; you have growth and vitality. A big factor on returns is the parent or guardian who decides transportation, so they ALSO need reinforcement at the meeting. 15.) Once a year or every 6 months do a written simple poll about how your meetings are going from the Juniors’ perspective. Ask the Juniors to answer in writing--furnish the pencils to fill out your poll questions on the page that you hand out. What do you like about our meetings? What do you NOT like about our meetings? What would you change? Suggestions? These will help guide the direction of your meetings that will be the best fit for your community, criteria and demographics. 16.) Ages 3 to 17 in one room can be very challenging to keep all their attention focused so you may have to split into age or interest groups. Our meetings usually have 15-25 kids of mixed ages in one room, but a good hobby subject will keep them focused on the task or topic of the meeting and the noise within normal limits. When the Juniors only may see each other once a month, they need to talk and socialize during their meeting.

These "pears" have proven workable in Everett, WA; we continue to have New Membership from Guests, we retain Junior Members; we have had six First Place NFMS Junior Achievement Award Winners from Everett Rookie Rockhounds; our Annual Show has 10-12 Junior Displays (in 7 cases), we have the good fortune of PARTICIPATION coupled with superkids from all different backgrounds. What works here may not work there, but at least this may be a start or some help in your area. Keep the environment at your meetings positive, inviting, safe, and rewarding; and give all Juniors opportunities to stay involved so they will become superstars in our favorite hobby--Rockhounding!

Pictured above is FIONA KELLEY, age 11, who helped make the 2007 Annual Show for Bellevue Rock Club a fun time for Junior Rockhounds. FIONA operated the “Rocks in Rice” and the Spinner Wheel of Fortune at the KIDS CORNER so customers could win lots of polished stone prizes. She has been a member of the Bellevue and East King Co Rock Clubs for over one year and likes her Birthstone Garnet the best. FIONA says all Field Trips are fun, especially Lake Wenatchee for garnet, Rock Candy Mine in British Columbia for fluorite and Coal Creek for fossils and petrified wood. She also PARTICIPATED in setting up "Bruce and Fiona’s" display case of “Blue Minerals” for the public to enjoy. At Halloween FIONA was disguised as a witch with a Santa cap (?) like she wears in the picture at the October Rock Show.

Every year our Annual Rock Show cycle seems to end on a high note in Bremerton, WA. The 24th Fall Festival of Gems was hosted by Kitsap Mineral & Gem Society November 17-18. Hundreds of Scouts attend this show because Mike Heesacker has organized the Scouts and developed a whole workbook of requirements the kids must accomplish to earn corresponding Scout (Girl, Cub, Webelos, Boy) Awards. Now in its fourth year, this is a proactive way of increasing the Show attendance. Another method they use for attendance is inviting Public School students to sign into the Rock Show so the school with the highest percentage of attendance wins a beautiful display case full of 30 quality mineral and fossil specimens. Both of these ideas are excellent working examples of what Past President Chuck Sonner has been discussing and promoting in your media in articles about Rock Club building, so why not PARTICIPATE and have some fun?

Kitsap Show photograph above shows three Junior Rockhounds from the Port Orchard area making Critters at the KIDS CORNER, which is a favorite of the majority. There are so many kids that attend this Annual Kitsap Show that dealers like Bruce and Darlene Denton (CKS Lapidary) set aside a special “Kids Only Section” with prices from 25 cents to $5.00 so that Juniors can make an affordable, realistic purchase from their own pocket or purse. Lots of happiness here and truly a benchmark for a Rock Show! MITCHELL HEESACKER set up “Fossil Display Case” with 26 different plant and animal fossils including a shark tooth and an allosaurus claw; BENJAMIN ELLERBY titled his case “Obsidian” with eight varieties of self collected specimens from Glass Butte, OR and a neat wood arrow with an obsidian arrowhead; 2006 NFMS Junior Achievement Award Winner NATHAN SHACKMANN placed a case called “Knives” with blades that he formed from obsidian, agate and jaspers; SIERRA SHACKMANN showed a case titled “Rock Display” of carnelian, fluorite, Ming Trees and a crystal formation from the Lucus Creek area; SEAN LORIMAR put in his “Red Top Mountain” case of banded blue grey agates, calcite, quartz, nodules and geodes with amethyst. Including the Juniors, there were 60 quality displays plus a stunning “show stopper” display of stone carvings by world-class artist Bob Sahli. This Annual Show is a superb result of PARTICIPATION.
Learning to Build a Gold Mill – Continued from page 5

The water is adjusted to carry the light minerals over the riffles and into the waste trough where it is piped to the tailings pond.

The gold and other heavy minerals work themselves over to the far end of the table where they fall into another trough leading to a dewaterer. Once adjusted, my table worked exceedingly well and recovered virtually all of the heavy minerals larger than dust and with very little waste in the gold/copper bin.

After separating out a quantity of the chalcopyrite and pyrite, I next looked into smelting. The Tacoma Smelter was operating at that time and I contacted them. Before they would talk to me about buying my concentrate, I had to prove that no bad minerals were in my ore. I had a long list of minerals assayed and went back to the smelter. My ore was very clean with none of the usual bad minerals. However, I found that the smelting costs were about $200 per ton before penalties were added on. This meant that the pyrite would have to have about 40 ounces of silver per ton to break even. My pyrite was far short of that so I had to abandon the use of gravity to separate out my gold.

Next time: Leaching with cyanide

Tri-Federation Rockhound Rendezvous
By Richard Pankey, Inter – Regional Field Trips

As promised the announcement flier with detailed information on our 2008 Tri-Federation Rockhound Rendezvous is now available. The flier has the information about the Rendezvous: material available, location, directions to camp, schedule, motels and RV parks nearby, and various activities that are planned. It is available on American, Northwest, Rocky Mountain and California Federations’ web sites and, depending on available space, may be published in your Federation Newsletter. I request and hope that whoever in each club that receives the Newsletter will pass this information and the 2 page flier on to your club Field Trip Leader or Editor or to someone to make copies and distribute to interested members of your club. A challenge with any event is the advertising, with getting the word out to the user. In this case, the challenge is getting it to the people who might be interested in attending this field trip/rendezvous. So, we are looking to the people who get the AFMS and/or your Federation Newsletter to get this information to interested in attending this field trip/rendezvous. So, we are looking to the people who get the AFMS and/or your Federation Newsletter to get this information to

Look for the flier and other Rendezvous information on these web sites:

AFMS – www.amfed.org

NFMS – www.amfed.org/nfms

RMFMS – www.nmfms.org

CFMS – www.cfmsinc.org

For more information and to sign-up to attend the Rendezvous e-mail (preferred) or call your respective Federation Field Trip Leader (bottom of the first page of the flier), or Contact me at dickpankey@juno.com.

Come join us for a great Tri-Federation Rendezvous of collecting, fun and fellowship. Mark your calendar, schedule your vacation, and plan to join us next May 21st to 26th.

Editor’s Comment: The following article is a back stage account as to how Pat Snyder got “roped” into dancing at the NFMS annual awards banquet

Dancing at the NFMS Show in Butte Montana
by Pat Snyder – Lakeside Gem & Mineral Club

Don & I attended the NW Federation banquet Saturday evening in Butte, Montana. After eating I went to the restroom before the entertainment started. I came back to a different door and noticed the entertainment had already started and thought I could sneak in without being noticed, wrong. “The Striketts”, a group of gals 55 to 92 years of age, were entertaining, lip-syncing and dancing to the music.

I came in the door just as they were announcing the next act, so I momentarily became act two. Coming in a different door makes everything look very different so I looked lost and couldn’t find our table, but Dom Cataldo stood up and waved me to our table.

I just sat down and thought I could watch act two and became part of act two. The gal that was lip-syncing “Pretty Woman” by Roy Orbison motioned to join her on the floor. It was fun dancing, lip-syncing and moving around the floor.

Bryan Schroeder took my picture while I was singing and dancing, and it was in the September 2007 NF Federation Newsletter. Hope you saw my picture singing. (Editor’s note: The actual picture came from Vi Jones, it was a little better than mine.)

I talked to the gal that I danced with after the show and said it was a lot of fun performing with her. She then asked me to join the group and I told her I would love to but it was too far to commute from Washington to Montana.

Doug True talked to me after the show and commented that next time I’d pay more attention to which door I entered in the future. A few other people commented they wanted me to dance at the next year’s Federation Show.

Sunday morning at the show we were talking to some friends and I heard a couple behind us talking. The lady said, “I think she was dancing in the show last night,” and the man said, “Why don’t we ask her?” They asked me if I was in the show and I said yes. Then they asked me if I could perform in Canada. I told them I couldn’t because I wasn’t part of the singing group.

Monday morning I saw the couple from Canada at breakfast and stopped by their booth and explained that I came in the wrong door at the right time and then I was asked to dance so that was how I was part of the entertainment.

When served lemons, make lemonade and have fun. I did!

Northwest Fossil of the Month
By Betty McLin Hare, Idaho Gem Club member
Mackay/Challis, Idaho

I want to take a minute to step aside from the individual fossils and discuss a very fossiliferous area, and a major earthquake. The Mackay area of Idaho contains amazing Pennsylvanian and Permian era sealed fossils almost everywhere you look. (My Fossils of Idaho book says that you can’t swing a dead cat without hitting a fossil there.) I found wonderful bryozoan fossils at the boat launch area of Mackay Reservoir. I found horn corals in the gravel driveway of a friend’s house in “downtown” Mackay. I found large boulders of “fossil hash” at Horse Heaven in the hills above Mackay.

On October 28, 1983, the world came to know Mackay for another reason. For on that day a large 7.3 earthquake shook the valley at eight in the morning. In nearby Challis, Idaho, two small children were crushed by toppled stone building blocks walking to school. New springs erupted from the ground out on the Chilly flats, an earthquake scar opened along the foot of the mountains, and boulders rolled off of the surrounding mountains into the town of Mackay. Schools split open, elk hunters were stranded, a hotel toppled, and the dam quivered.

A new “Borah Peak Earthquake Reminiscences: 25 years” Display will be at the Idaho Museum of Mining and Geology in Boise, Idaho all summer. The museum is located out at the Old Territorial Penitentiary off of Warm Springs Road in east Boise, Idaho. You could visit the area when you come to Ontario, Oregon for the 68th Annual NFMS Show & Convention June 20-22, 2008. This museum has plenty of hillside hiking trails, guided tours, fascinating displays of old mining equipment and beautiful maps.

This major quake occurred 25 years ago next October. The Idaho Museum of Mining and Geology and I are compiling stories of people all over the west that experienced the Mount Borah earthquake. We are beginning to lose the folks that experienced that earthquake first-hand. If you have an earthquake story to tell, email it to me at bmhare@hotmail.com or snail mail it to me at Betty Hare, 262 Allumbaugh St. #119, Boise, Idaho 83704. Your stories will be greatly appreciated and you will make yourself a part of recorded history at the Idaho Historical Archives. Betty Hare can be reached at (208) 323-7863, if you have questions.

Water as Fuel

“This seemingly strange idea originated in a remark of Sir Humphrey Davy that, on the problematical exhaustion of coal, men will have recourse to the hydrogen of water, as a means of obtaining light and calefaction (heat). As the gas used for lighting consists of hydrogen and a little carbon, it is only the latter which would have to be added, after the water had been decomposed into its elementary parts of hydrogen and oxygen.” --from the Scientific American October, 1847 issue; via Scientific American October 1997 (Contributed by Taylor Hunt)
### 2008 Gem & Mineral Show Calendar

<table>
<thead>
<tr>
<th>Date</th>
<th>Club/Show Name</th>
<th>Show Location</th>
<th>Contact Person</th>
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<tbody>
<tr>
<td>Feb 9-10</td>
<td>Whidbey Island Gem Club</td>
<td>Oak Harbor Senior Center</td>
<td>Keith Ludemann</td>
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<tr>
<td></td>
<td>38th Annual Sweetheart of Gems Show</td>
<td>51 SE Jerome Street, Oak Harbor, WA</td>
<td>360-675-1837</td>
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<td></td>
<td></td>
<td></td>
<td><a href="mailto:rock9@whidbey.net">rock9@whidbey.net</a></td>
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<tr>
<td>Sun 10-5</td>
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<tr>
<td>Sun 15-6</td>
<td>West Seattle Rock Club</td>
<td>Alki Masonic Temple, Seattle, WA</td>
<td>Audrey Vogelohp</td>
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<tr>
<td></td>
<td>42nd Annual show</td>
<td></td>
<td>(206) 932-3292</td>
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<td></td>
<td>“Presidents” Gemboobee</td>
<td></td>
<td><a href="mailto:avogelohp@comcast.net">avogelohp@comcast.net</a></td>
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<tr>
<td>Feb 16-17</td>
<td>Everett Rock and Gem Club</td>
<td>WA National Guard Armory</td>
<td>Fritz Mack (425) 252-0809</td>
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<tr>
<td></td>
<td>55th Annual Gem, Jewelry &amp; Mineral Show</td>
<td>2730 Oakes Avenue, Everett WA</td>
<td>PO Box 1615</td>
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<tr>
<td>Sun 10-5</td>
<td></td>
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<td>509-962-4021</td>
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<td>Sun 10-5</td>
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<td>PO Box 1264</td>
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<tr>
<td>Sun 10-7</td>
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<td>Riggins, ID 83549</td>
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<td>Sun 10-5</td>
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<tr>
<td>Mar 1-2</td>
<td>East Kingco Annual Rock &amp; Gem Show &amp; Convention</td>
<td>Pickering Barn, 1730 10th Ave NW (across from Costco), Issaquah, WA</td>
<td>Kevl <a href="mailto:123@hotmail.com">123@hotmail.com</a></td>
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<tr>
<td>Mar 7-9</td>
<td>Golden Spike Gem &amp; Min.</td>
<td>Union Station</td>
<td>Richard Gabel</td>
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<tr>
<td></td>
<td>Soc. Gem Stone Junction</td>
<td>25th &amp; Wall Ave, Ogden, Utah 84401</td>
<td>801-540-0478</td>
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<tr>
<td>Oct 6-8</td>
<td></td>
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<td><a href="mailto:GoldenSpikeGem@aol.com">GoldenSpikeGem@aol.com</a></td>
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<td>Oct 6-8</td>
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<tr>
<td>Mar 9-9</td>
<td>Tulatin Valley Gem Club Annual Show</td>
<td>Washington County Fairgrounds, Hillboro, Oregon</td>
<td>Beth Heesacker</td>
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<td>503-357-8804</td>
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<td><a href="mailto:heesacker@cohob.com">heesacker@cohob.com</a></td>
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<tr>
<td>Mar 10-5</td>
<td>Magic Valley Gem Club, Annual Rock and Gem Show</td>
<td>Boys &amp; Girls Club, 999 Frontier Road, just East of C.S.I., Twin Falls, ID</td>
<td>Harold Wagoner</td>
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<tr>
<td>Sun 10-5</td>
<td></td>
<td></td>
<td>(208) 423-3292, or Shirley Metts</td>
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<td><a href="mailto:rmets@cableone.net">rmets@cableone.net</a></td>
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<tr>
<td>Mar 15-20</td>
<td>Rock and Arrowhead Club Annual Show</td>
<td>Klamath County Fairgrounds, 3531 S 6th St, Klamath Falls, OR</td>
<td>Amanda Newnham</td>
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<tr>
<td></td>
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<td>541-892-8364, <a href="mailto:dustystocks@aol.com">dustystocks@aol.com</a></td>
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<td>G. Carlson 541-882-8276</td>
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<td>Oct 6-8</td>
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<td>Mary Stump 541-882-8341</td>
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<td>Oct 6-8</td>
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<tr>
<td>Mar 29-30</td>
<td>Sweet Home Rock &amp; Mineral Society (60th annual show)</td>
<td>1641 Long St., Sweet Home, Or.</td>
<td>Dee David (541) 367-4895</td>
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<td><a href="mailto:ced@centurytel.net">ced@centurytel.net</a></td>
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<tr>
<td>Apr 5-6</td>
<td>Mount Hood Rock Club</td>
<td>Mt Hood Community College Gym 26000 SE</td>
<td>Gail Bumala P.O.B 1180</td>
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<td></td>
<td>Rock and Craft Show</td>
<td>Stark, Gresham OR</td>
<td>Sandy OR 97005</td>
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<td><a href="mailto:boomart@cascadaccess.com">boomart@cascadaccess.com</a></td>
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<tr>
<td>Apr 5-6</td>
<td>Southeast Idaho Gem and Mineral Society</td>
<td>Bannock Co. Fairgrounds Commercial Building, Pocatello, Idaho</td>
<td>Marty Rakatsky (208) 233-2538 or Robert Murphy</td>
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<td><a href="mailto:rmurphy@highstream.net">rmurphy@highstream.net</a></td>
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<tr>
<td>Apr 12-13</td>
<td>Mt. Baker Rock &amp; Gem, 47th Annual show</td>
<td>Bloedel-Donovan Park, Multi-purpose Building, 2214 Electric Ave, Bellingham, WA</td>
<td>Richard Evans</td>
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<td>509-744-8139</td>
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<td><a href="mailto:evansrj1@cs.com">evansrj1@cs.com</a></td>
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<tr>
<td>Apr 12-13</td>
<td>Idaho Falls Gem and Mineral Society, Annual Show</td>
<td>City Recreation Center, (Memorial and B St.), Idaho Falls, Idaho,</td>
<td>Sharon Nicklae 208-522-7336 or Bill Thielsbar, 208-524-0139</td>
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<tr>
<td>Apr 18-20</td>
<td>Willamette Agate &amp; Mineral Society – 53rd Annual River of Gems-Crystals Theme</td>
<td>Polk Co. Fairgrounds Rickreall, OR</td>
<td>Cathy Fisher <a href="mailto:rockhuntinggem@comcast.net">rockhuntinggem@comcast.net</a></td>
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<td>503-851-1837</td>
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<td>Also see: <a href="http://www.wamsi.org">www.wamsi.org</a></td>
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<td><a href="mailto:martahm@winnfor.net">martahm@winnfor.net</a></td>
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<tr>
<td>Apr 19-20</td>
<td>Lakeside Gem and Mineral Society Annual Show</td>
<td>Benton Franklin County Fairgrounds, Bldg #1, Kennewick WA</td>
<td>Dave Westland (509) 735-9678</td>
</tr>
</tbody>
</table>

### 2009 Gem & Mineral Show Calendar

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<tbody>
<tr>
<td>May 12-13</td>
<td>Bozeman Gem &amp; Mineral Club - 49th Annual Show</td>
<td>Gallatin Co. Fairgrounds Black &amp; Tamarack St.</td>
<td>Dan Carter 406.586.4552 or Doug Ellis (406) 266-4452</td>
</tr>
<tr>
<td>Oct 7-9</td>
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<td><a href="mailto:opalcrusher@hotmail.com">opalcrusher@hotmail.com</a></td>
</tr>
<tr>
<td>May 17-18</td>
<td>Hatrockhounds Annual Gem and Mineral Show</td>
<td>Hermiston Convention Center, 4115 Hwy 395, Hermiston, Oregon,</td>
<td>Mike Filaski, PO Box 502, Irrigon, OR 97844</td>
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<td><a href="mailto:stonemorfin1@netscape.net">stonemorfin1@netscape.net</a></td>
</tr>
<tr>
<td>May 23-25</td>
<td>Bitterroot Gem &amp; Mineral Society, Mineral &amp; Fossil Show</td>
<td>Hamilton Senior Center 820 N. Fourth &amp; Adirondac, Hamilton, MT,</td>
<td>Steve Vieth 1-406-363-2632, <a href="mailto:stevevieth@msn.com">stevevieth@msn.com</a></td>
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<td><a href="mailto:jdahl2@casco.net">jdahl2@casco.net</a>.</td>
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<tr>
<td>Oct 8-10</td>
<td></td>
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<td>PO Box 2439 Waldport, OR</td>
</tr>
<tr>
<td>Jun 20-22</td>
<td>68th Annual NFMS Show &amp; Convention</td>
<td>Ontario Fairgrounds Ontario Oregon</td>
<td>Margaret Stallknecht 208-365-1653</td>
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<tr>
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<td><a href="mailto:mstallknecht@yahoo.com">mstallknecht@yahoo.com</a></td>
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<tbody>
<tr>
<td>Oct 5-10</td>
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<td><a href="mailto:dtruefossils@yahoo.com">dtruefossils@yahoo.com</a></td>
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</tbody>
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Just think your ad could be here

(From Rock Buster News 5/88 via SHAWNEE GEM & MINERAL CLUB 11/12/89)