



# NORTHWEST NEWSLETTER



VOLUME 48 NO. 4

Northwest Federation of Mineralogical Societies

JANUARY 2008

## "Up and Coming in Ontario" Gem and Mineral Show

68<sup>th</sup> 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 Geiser 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**

**NFMS  
Newsletter  
Field Trip  
Listings**

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](mailto:nfmsnews@verizon.net) or contact Keene Clay at [odroc@comcast.net](mailto: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.

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## NEWSLETTER ARTICLES DUE

*January 10, 2007*

## **NFMS WEBSITE**

[www.amfed.org/nfms](http://www.amfed.org/nfms)

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Jack Eads.

**THINGS YOU SHOULD KNOW**

The **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 educational and recreational purposes; and to carry the voice of all amateur collectors and hobbyists to our elected officials, government regulators and public lands managers. Your annual membership fee of \$25.00 helps support their activities. Contact: TBD

The **AFMS NEWSLETTER** is published monthly except Jan-Jul-Aug by the American Federation of Mineralogical Societies. Each NFMS member club should have three people (usually the Pres, Secretary, and Editor) receiving the AFMS Newsletter. If they are not, or if anyone else wants to subscribe (\$4.50 per year), write to: **AFMS Central Off., Steve Weinberger, P.O. Box 302, Glyndon, MD 21071-0302.** Make checks payable to "AFMS". Email: [cebar62@aim.com](mailto:cebar62@aim.com)

The **NORTHWEST NEWSLETTER** is the official publication of the Northwest Federation of Mineralogical Societies (NFMS) and is usually published ten (10) times per year. This publication is brought to you through your club membership in NFMS. The purpose of the Northwest Newsletter is to keep all NFMS members informed of activities and events pertaining to the business and services of the Federation. The Newsletter is printed and mailed to approximately 3500 homes in six states by Burley Reminder in Burley ID. For matters related to the Newsletter (i.e. content, advertising, etc) contact the **Newsletter Editor** (printed elsewhere on this page). For matters related to the Newsletter circulation (new members, address changes, etc.) contact the **Circulation Chairperson** (located elsewhere on this page).

**SHOW COORDINATION.** Your Federation provides a free service for NFMS members by listing your show in this Newsletter, on the NFMS website, two magazines ("Rocks and Minerals" and "Rock and Gem") and the on-line Calendar from "Lapidary Journal". Please provide the date and time for the show, the club name and show title (if applicable), the location of the show, and most important a contact person with address, e-mail address and or phone (e-mail is preferred). Please send your show information four to six months in advance to the **SHOW COORDINATION Chairperson** (printed elsewhere on this page). If you see an error once your show is listed, or if your show is not listed, contact **Newsletter Editor** (printed elsewhere on this page).

**SAVE STAMPS PROGRAM.** NFMS members are encouraged to use and save commemorative stamps. The money generated from the sale of these used (cancelled) stamps is then donated to Cancer Research. The collected stamps can be sent to the **STAMPS Chairman** (printed elsewhere on the page), brought to the NFMS Annual Show or given to your Federation Director in your club.

**ATTENTION CLUB TREASURERS:****Where to send your money:****(See this page for address, phone, or e-mail)**

To NFMS Treasurer for:

1. Dues and supplies
2. Donations for the general fund
3. Donations to Junior Achievement

Send to: Lyle Vogelpohl, see Treasurer this page.

To NFMS Endowment Fund Treasurer for:

1. Donations to Endowment Fund
2. Memorial contributions

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

To NFMS Scholarship Chairperson for:

1. Donations to AFMS Scholarship Fund
2. Memorial contributions

Make check payable to **AFMS Scholarship Fund**.  
Send to: **Rose Alene Mc Arthur** (see Scholarship this page).

To AFMS Endowment Fund for:

1. Donations to AFMS Endowment
2. Memorials

Send to: To Be Determined

To **ALAA** Treasurer for:

1. Memberships, new and renewals
2. Donations

Make check payable to **ALAA**  
Send to Norman W. Hanschu, ALAA Treasurer, 6607 Sturbridge Ln; Canton, MI 48187-2638

**NFMS NEWSLETTER ADVERTISEMENT.** Members, Non-members, clubs, etc. can advertise in the Northwest Newsletter. This service is provided to help defray the cost of printing and mailing the newsletter and is encouraged by the Federation. The only criteria for the ad is that it be hobby related (e.g. rocks, equipment, grit, shows, etc.).

Ads 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

Do not send ads 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 elsewhere on this page.)

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**NORTHWEST NEWSLETTER is**  
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**NFMS NEWSLETTER EDITOR**  
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## COMMENTS, THOUGHTS & ANNOUNCEMENTS



**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 while 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 bringing 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 that 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 2<sup>nd</sup> 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 Dalles 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@cbadams.com](mailto:ecataldo@cbadams.com).

May peace, prosperity and plenty of good rocks come your way in 2008.



**Margaret Stallknecht**

**Education Chair & 2008 Show Chair**

**On Education**

Hope you all had a good Holiday! This year has gone so fast. It was so good to see

so many of you this year with your ideas and inspirations. 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, [mestallknecht@yahoo.com](mailto:mestallknecht@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

Buhr 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.



## COMMENTS, THOUGHTS & ANNOUNCEMENTS

### 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 E. Anderson – January 7, 1932 – July 14, 2007



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 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 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 feat 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 is 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](mailto:beauholland@salmoninternet.com)

Joe Slouber, Judging Chair

[RockHound@in-tch.com](mailto:RockHound@in-tch.com)

Rocky McCall, Registrar, [rm711@tgi.net](mailto:rm711@tgi.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.**



#### DARLENE'S DOODLES

#### NFMS Bulletin Aids

Good Morning Everyone.  
Where has the year gone?

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

**WASHINGTON PROSPECTORS  
MINING ASSOCIATION PRESENTS  
OUR 13TH ANNUAL  
GOLD, GEM AND  
MINERAL SHOW**

MEET NOTED  
METAL  
DETECTORIST  
LES BERG

MEET NOTED  
AUTHOR &  
DREDGER  
DAVE  
McCRACKEN

**FREE GOLD TO THE FIRST  
100 PAID ADMISSIONS!**

**FEBRUARY 23 & 24, 2008  
EVERGREEN STATE FAIRGROUNDS  
MONROE, WASHINGTON  
Sat., 9 am - 4 pm, Sun., 9 am - 4 pm  
\$5.00 admission, 13 and under free  
when accompanied by an adult**

For Show updates, see our web site at [www.washingtonprospectors.org](http://www.washingtonprospectors.org)

**FINAL STATEMENT OF INCOME AND EXPENSES  
2007 BUTTE MINERAL & GEM CLUB/NFMS SHOW  
AUGUST 3-5, 2007**

**INCOME**

Gross Income -to be Shared with NFMS:			
Admissions	\$ 7,373.00		
Dealer Fees	<u>11,232.00</u>		
Subtotal	\$ 18,605.00	\$ 18,605.00	
Miscellaneous Income			
Banquet/Meal Fees	\$ 3,276.00		
100% remitted to NFMS	<u>(3,276.00)</u>		
Subtotal	\$ -0-	-0-	

**EXPENSES**

Advertising	\$2,174.76		
Insurance	518.75		
Rent-Civic Center	4,500.00		
Rent-Showcases (Mt. Council)	100.00		
Set-up	393.27		
Security	200.00		
Signage, Printing	406.72		
Table Decoration-Banquet	41.18		
Transportation, Misc.	<u>138.16</u>		
Subtotal	\$ 8,472.84	(8,472.84)	
Income Less Expenses		\$ 10,132.16	
Less 50% of Income after Expenses-to NFMS		(5,066.08)	
Net Income from Show-Club's Share		\$ 5,066.08	

**The Insidious Creeper-A Safety Article**

By Garry Mahan, Kitsap Mineral and Gem Society

It was a dark and stormy night and I couldn't sleep. It was about 1:30 AM and I decided I would go out to the shop and get a tumbler load going. The shop is about 100 feet from the house and ever since we saw a cougar just down the street, it has given me goose bumps to go out at this hour without a flashlight. I proceeded through the dark toward the shop. As I neared the building the motion detecting light came on and, as I opened the main door, I sensed something was wrong. I slowly walked to the back part of the shop to the room where my lapidary equipment is located. When I came to the door, I could hear something inside. Strange! It sounded like my slab saw was running! Could somebody have crept in there and turned on my saw? This didn't make sense! I slowly opened the door. The lights were out, so I reached in and flipped the switch on. The room was filled with smoke and my old slab saw was purring away. I tried to turn the saw off with the saw switch, but it wouldn't turn off. I then unplugged the saw from the electrical outlet and that took care of it. But the question still remained; what caused the saw to come on all by itself?

With the saw unplugged, I took the switch box apart and found it was totally charred inside. Looking closer I could see where the hot lead had shorted to the neutral and turned the saw on, thereby rendering the switch useless. There are two conclusions from this incident: (1) Never leave your saw hood open when you are not using your saw. Thankfully, my hood was down. If it hadn't been, my shop floor and walls would have been drenched in oil. (2) If you have an old saw, look inside the switch box to see if oil has leaked in. If it has, clean it out. I had been using my saw for about 49 years when this happened, and it still had the original switch. Oil had worked its way into the switch box through the small hole between the saw switch box and the inside of the saw. It took 49 years for the oil to seep through that little hole and accumulate enough to turn the saw on! I was lucky to find a replacement toggle switch at Radio Shack the next day and I got the old saw working again. I was even luckier that my shop didn't burn down!

On a related note, about 5 years ago, I noticed the electrical cord from the (inside) saw light was leaking oil. The "electrical" cord was leaking "oil"? You guessed it. There was enough of a gap in the light cover to allow the oil vapor to get into the light fixture and work its way all the way down to the plug. That was an easy

fix; the cord just needed to be replaced.

Saw oil is a great lubricant, and it keeps things cool. But, remember that it is also an insidious creeper that can cause fires. Most saw oils will conduct electricity and this is not good near live electrical components. Watch out for these things!

I've got to remember to check that switch before another 49 years fly by. I still haven't got that tumbler load going.

*Editor's Note: What happened to the Cougar? When I started reading the story, I thought the culprit would be the cougar. Great article Garry!!*

**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 stared 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.

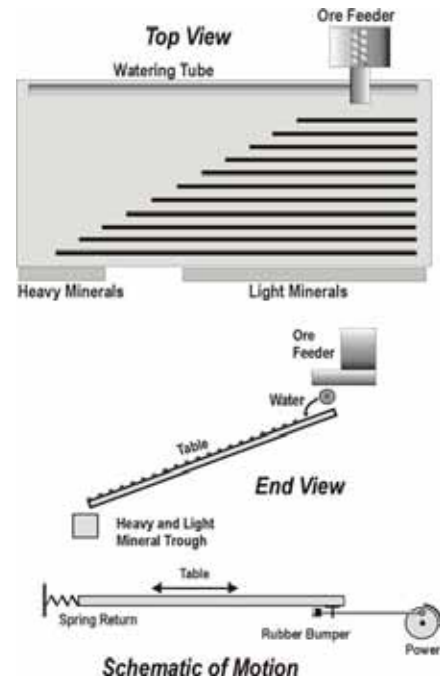


Figure 1. How a Shaker Table Works



## NFMS JUNIOR ROCKHOUNDS

## "News Flash January 2008"

**Juniors Chairman****Gary Buhr**

Happy 2008 and welcome to a fresh opportunity to increase or start Junior Rockhound activity

and membership in your Rock Club. Starting over seems to be a big part of the human condition and remember that it usually takes twenty-one repetitions before something new is learned to the point of being a solid component of your "framework". So, we need to be patient and continue with our ongoing outreach into the community and PARTICIPATION within the NFMS and our local Rock Clubs.

Did you read the November issue of "News Flash"? Have you read the 10 Tips to Start a Junior Club on your NFMS Website Junior Page? After being the Juniors Advisor for the Everett Rookie Rockhounds for the past ten years, there are a few "pearls" that are consistent regarding successful Junior Rock Club Meetings, and here they are:

- 1.) Promote the Juniors in your Rock Club Newsletter with an article about each meeting to create continuum, and photos are a plus. List kids names in CAPITALS for emphasis.
- 2.) Parents present help younger kids with the project at hand and provide a quieter room for the others because of less distractions.
- 3.) Donations of good material keeps creative ideas flowing when you decide whether to use them as game prizes, crafts or project ingredients. Kids appreciate quality not junk!
- 4.) Guest presenters bring variety and new viewpoints to your meetings; we have had Juniors make presentations of proven techniques like wire wrapping or fossil preparation.
- 5.) Never let meetings seem like school class; this is our hobby to have fun with; extra study or investigations can be done at home, not all kids want the rest of the story.
- 6.) Juniors Meetings need to run at the kids' pace (fast usually for about 50- 60 minutes on the same night, same place, but different room/area as the main Rock Club Meeting, primarily for the reason of convenience and transportation, plus look at fuel prices!
- 7.) Boredom is to be avoided by keeping their hands and minds focused on something they like that is rock, mineral, fossil or lapidary related. Be sure each Junior takes a treasure home after every meeting to ponder and add to their collection.
- 8.) Advisor needs to be a leader type that plans ahead by being well prepared for a fast moving meeting that will fit into the time frame for the meeting.
- 9.) Advisor needs to be a mentor by exuding expertise in rocks, gems or lapidary, very important to be accessible for answers or able to find answers to Juniors questions.
- 10.) Juniors need to feel that you, their Advisor, are on their "wavelength", but seasoned and educated past their points in time so you always have the "edge". Certainly, you too may be an adult that deftly entertains and ponders the child within?
- 11.) Advisor needs to be creative and provocative to stimulate their imaginations during the meeting, then they will stay focused for at least 50 minutes.
- 12.) Stop everything for a question because others may have the same type of question only not ask it. Learning and education will prevail when questions abound.

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 "pearls" 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 Lucas 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 your members.

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

AFMS – [www.amfed.org](http://www.amfed.org)

NFMS – [www.amfed.org/nfms](http://www.amfed.org/nfms)

RMFMS – [www.rmfmms.org](http://www.rmfmms.org)

CFMS – [www.cfmsinc.org](http://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](mailto: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 21<sup>st</sup> to 26<sup>th</sup>.

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 Stricketts", 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 become part of act two. The gal that was lip-syncing "Pretty Woman" by Roy Orbison motioned me 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 NW 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 seabed 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 scarp 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 68<sup>th</sup> 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](mailto: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 problematic 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

Date	Club/Show Name	Show Location	Contact Person
Feb 9-10	Whidbey Island Gem Club	Oak Harbor Senior Center	Keith Ludemann
Sat 10-5	38th Annual Sweetheart of Gems Show	51 SE Jerome Street Oak Harbor, WA	360-675-1837 rock9@whidbey.net
Feb 16-17	West Seattle Rock Club	Alki Masonic Temple	Audrey Vogelpohl
Sat 10-5	42 <sup>nd</sup> Annual show	4736 40 <sup>th</sup> Ave SW	(206) 932-3292
Sun 10-5	"Presidents" Gemboree	Seattle, WA	avogelpohl@comcast.net
Feb 23-24	Everett Rock and Gem Club	WA National Guard Armory	Fritz Mack (425) 232-0809
Sat 10-6	55th Annual Gem, Jewelry and Mineral Show	2730 Oakes Avenue	PO Box 1615
Sun 10-6	Idaho Gem Club Annual Show	Everett WA	Everett, WA 98206
Feb 23-24	Idaho Gem Club Annual Show	Expo Idaho	Charlie Smith 208- 628-4002
Sat 10-7	Show	5610 Glenwood	PO Box 1264
Sun 10-5	Show	Boise ID	Riggins, ID 83549
Mar 1-2	East Kingco Annual Rock & Gem Show	Pickering Barn, 1730 10 <sup>th</sup> Ave NW (across from Costco)	EKCRC, P.O.B 2203, Redmond, WA 98073
Sun: 10-5	Issaquah, WA		Kevl1123@hotmail.com
Mar 7-9	Golden Spike Gem & Min. Soc. Gem Stone Junction	Union Station 25 <sup>th</sup> & Wall Ave.	Richard Gabel 801-540-0478
Fri 9-6	2008	Ogden, Utah 84401	GoldenSpikeGem@aol.com
Sat 10-6		801-393-9890	
Sun 10-5			
Mar 7-9	Tualatin Valley Gem Club	Washington County	Beth Heesacker
Fri. 9-5	Golden Anniversary of the TVGC Rock & Gem Show	Fairgrounds Hillsboro, Oregon	503-357-8804, heesacker@coho.net
Sat. 10-5			
Sun 10-5			
Mar 8-9	Magic Valley Gem Club, Annual Rock and Gem Show	Boys & Girls Club , 999 Frontier Road, just East of C.S.I., Twin Falls, ID	Harold Waggoner, (208) 423-3292, or Shirley Metts rmetts@cableone.net
Sat 10-4			
Mar 8-9	Rock and Arrowhead Club Annual Show	Klamath County Fairgrounds, 3531 S. 6 <sup>th</sup> St. Klamath Falls, OR	Amanda Newnham, 541-892-8364, dusstylocks@aol.com G. Carlson 541-882-8276 Marv Stump 541-882-8341
Sat 9-5			
Sun 10-4			
Mar 29-30	Sweet Home Rock & Mineral Society ( 60th annual show)	1641 Long St. Sweet Home, Or.	Dee David (541) 367-4895 ced@centurytel.net
Sat 10-6			
Sun 10-4			
Apr 5-6	Mount Hood Rock Club Rock Gem and Craft Show	Mt Hood Community College Gym 26000 SE Stark, Gresham OR	Gail Bumala P.O.B 1180, Sandy OR 97005
Sat 10-6			
Sun 10-5			
Apr 5-6	Southeast Idaho Gem and Mineral Society	Bannock Co. Fairgrounds Commercial Building	boomart@cascadeaccess.com Marty Rakatansky (208) 233-2538 or Robert Murphy remurphy@highstream.net
Sat 10-6	51 <sup>st</sup> Annual Show	Pocatello, Idaho	
Sun 10-5			
Apr 12-13	Mt. Baker Rock & Gem, 47 <sup>th</sup> annual show	Bloedel-Donovan Park Multi-purpose Building	Richard Evans 360-714-8139 evansrj1@cs.com
Sat 10-6			
Sun 10-5			
Apr 12-13	Idaho Falls Gem and Mineral Society, Annual Show	City Recreation Center (Memorial and B St.) Idaho Falls, Idaho.	Sharon Nicklas 208-522-7336 or Bill Thielbahr, 208-524-0139
Sat 10-6			
Sun 10-5			
Apr 18-20	Willamette Agate & Mineral Society - 53 <sup>rd</sup> Annual River of Gems-Crystals Theme	Polk Co. Fairgrounds Ritzkeall, OR	Cathy Fisher rockhuntinggem@comcast.net 503-851-1837 Also see: www.wamsi.org
Fri 9-6			
Sat 10-6			
Sun 10-4-30			
Apr 19-20	Yakima Rock and Mineral Club Parade of Gems (70 Years)	Central Wash.State Fairgrounds, Fair Ave. & E. Nob Hill Blvd., Yakima, WA	Marti Sondgeroth 509-248-6401 marthams@nwinfor.net
Sat 10-6			
Sun 10-4			
Apr 19-20	Lakeside Gem and Mineral Society Annual Show	Benton Franklin County Fairgrounds, Bldg #1, Kennewick WA	Dave Westland (509) 735-9678
Sat 10-5			
Sun 10-4			

## 2008 Gem & Mineral Show Calendar

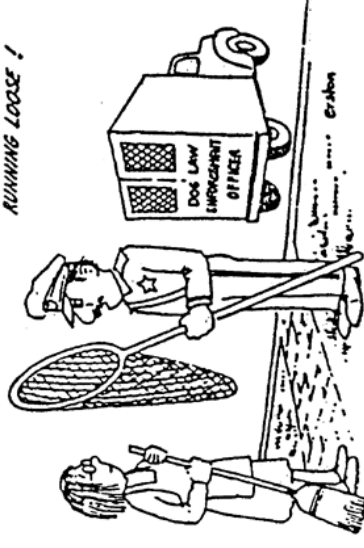
Date	Club/Show Name	Show Location	Contact Person
May 12-13	Bozeman Gem & Mineral Club - 49th Annual Show	Gallatin Co. Fairgrounds Black & Tamarack St.  Exit I-90 @ N. 7th St	Dan Carter 406.586.4552 or Doug Ellis (406) 266-4452 opalerusher@hotmail.com
Sun 10-4			
May 17-18	Hatrockhounds Annual Gem and Mineral Show	Hermiston Convention Center, 4155 Hwy 395, Hermiston, Oregon	Mike Filarski, PO Box 502, Irrigon, OR 97844 stonemorlin@netscape.net
Sat 10-6			
Sun 10-4			
May 23-25	Bitterroot Gem & Mineral Society, Mineral & Fossil Show	Hamilton Senior Center 820 N. Fourth & Adirondac Hamilton, MT	Steve Vieth 1-406-363-2632, stevevieth@msn.com
Sat 9-6			
Sun 9-5			
June 6-8	Puyallup Valley Gem and Mineral Club Annual Show	Fruitland Grange Hall 112th and 86th Avenue East Puyallup, WA	info@puyallupgemclub.org or Puyallup Valley Gem Club P.O. Box 134 Puyallup, WA 98371-0014
Fri 12-5			
Sat 10-6			
Sun 11-4			
June 13-15	Oregon Coast Agate Club Gem and Mine, 46th Annual Gem and Mineral Show	Lincoln Co.Fairgrounds, 633 NE 3 <sup>rd</sup> St., Newport, Oregon Directions: http://www.co.lincloh.or.us/fair/index.html	Juli Dahl, 541-563-7495 jdh12@casco.net PO Box 2439 Waldport, OR 97394
Fri 10-6			
Sat 10-6			
Sun: 10-4-30			
June 20-22	68 <sup>th</sup> Annual NFMS Show & Convention	Ontario Fairgrounds Ontario Oregon	Margaret Stallknecht 208-365-1653 mestallknecht@yahoo.com
Fri 10-6			
Sat 10-6			
Sun: 10-5			

## 2009 Gem & Mineral Show Calendar

Date	Club/Show Name	Show Location	Contact Person
Jul 31-Aug 2	NFMS/AFMS Combined Show hosted by Billings Gem & Mineral Club	Holiday Inn Grand Montana 5500 Midland Rd Billings MT	Doug True 406-670-0506 dtruefossils@yahoo.com
Fri 10-5			
Sat 10-5			
Sun: 10-5			

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