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# The Council Reporter



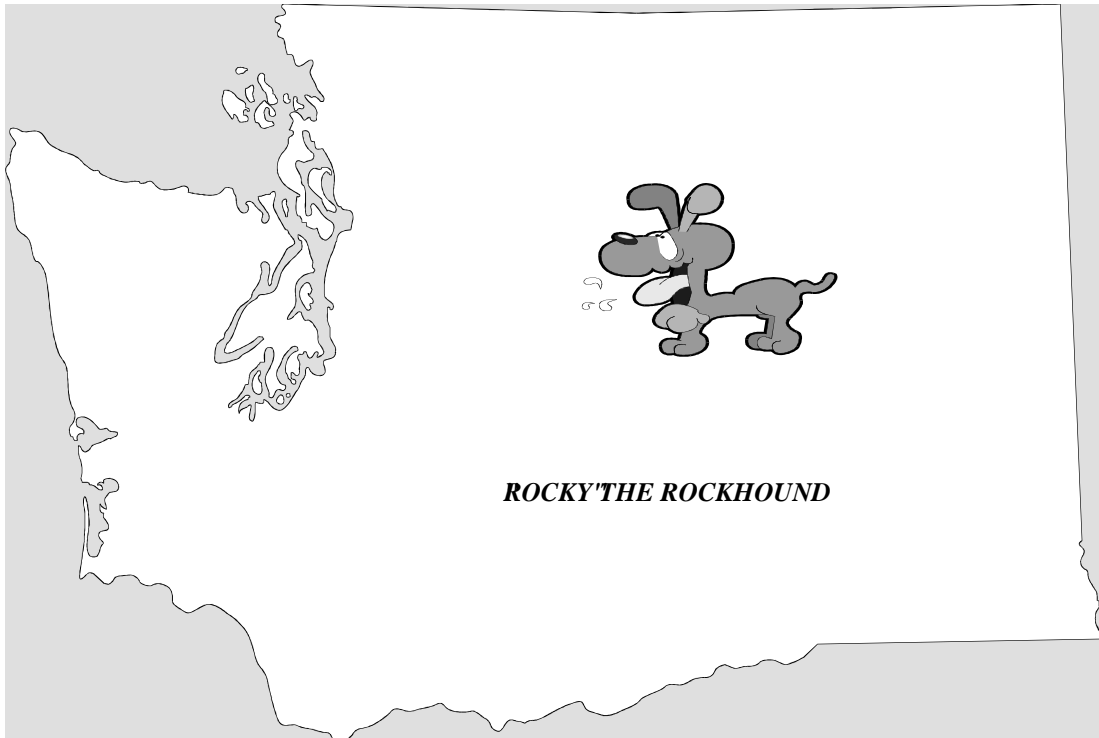
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*January 2016*

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**Official Publication of the  
Washington State Mineral Council**

**WASHINGTON STATE MINERAL COUNCIL  
2015 OFFICERS**

**OFFICERS**

|                |                     |                        |                |
|----------------|---------------------|------------------------|----------------|
| President      | Perry Gulsvig       | sparry08@comcast.net   | (509) 290-1355 |
| VP             | Vesta Bettinger     | vestab.rocks@gmail.com | (206) 679-3142 |
| 2nd VP         | Christopher Bechard |                        |                |
| Secretary      | Millie Lyons        | gordlyo82@gmail.com    |                |
| Treasurer      | Kathy Earnst        | earnstkk@comcast.net   | (360)856-0588  |
| Imm Past Pres: | Lisa Bishop Waters  | lisa9905@msn.com       | (206) 854-7174 |

**TRUSTEES --- EAST SIDE**

|                |                              |            |                |
|----------------|------------------------------|------------|----------------|
| Steve Townsend | srtrocks@aol.com             | (13-14-15) | (509)-607-1446 |
| Dale Geer      | P.O. Box 34, Moxie, WA 98936 | (15-16-17) | (509) 248-6975 |
| Dave Mastin    | davemastin@yahoo.com         | (13-14-15) |                |
| Aaron Wigant   | aaronwigant@rocketmail.com   | (14-15-16) | (509) 263-3401 |
| Jim Landon     |                              | (14-15-16) |                |

**TRUSTEES --- WEST SIDE**

|                 |  |            |                |
|-----------------|--|------------|----------------|
| Gordon Lyons    | gordlyo82@gmail.com                        | (13-14-15) |                |
| Tony Schackmann | werockon@inlandnet.com                     | (13-14-15) | (360)372-2777  |
| Stu Earnst      | 27871 Minkler Road Sedro Woolley, WA 98284 | (15-16-17) | (360) 856-0588 |
| Bob Pattie      | 4316 N. E. 10th, Renton, WA 98059          | (15-16-17) | (425) 226-3154 |
| Glenn Morita    | gmorita@seanet.com                         | (14-15-16) | (425) 743-6249 |
| Ed Lehman       | wsmced@hotmail.com                         | (14-15-16) | (425) 334-6282 |

**STAFF**

|             |               |                                      |                |
|-------------|---------------|--------------------------------------|----------------|
| Editor      | Glenn Morita  | 4528 152nd Pl SW, Lynnwood, WA 98087 | (425) 743-6249 |
| Historian   | Jackie Pattie | 4316 N. E. 10th, Renton, WA 98059    | (425) 226-3154 |
| Wagonmaster | open          |                                      |                |

**The West Side Board meets the third Tuesday of each month between Quarterly meetings, unless a meeting is specially called. Usually no meeting in July and December dependent on Board action.**

**MAILING ADDRESS**

Washington State Mineral Council  
27871 Minkler Road  
Sedro Woolley, WA 98284

**WEB PAGE ADDRESS**

<https://mineralcouncil.wordpress.com>

Editor's e-mail address  
gmorita@seanet.com

# Westside Board Meeting Minutes 01/19/16

Vice President Vesta Bettinger opened the meeting at 7:45pm.

There was no treasurer's report as Kathy Earnst was not in attendance.

## Wagonmaster report:

The 2016 field trips have been set and posted on the web and in this issue.

Ed reported that the collecting on the Beaver Valley field trip was poor. No new work had been done at the quarry to expose more minerals.

Ed has more information on the Greenwater Access and Travel Management project. He has written a summary with maps showing road closures and will provide them to anyone interested. Just send him an e-mail with your request.

The Burma Road area may be closed permanently in the future. This is on tribal land and the tribes are reviewing their options.

Remember to contact the field trip leaders before collecting for the latest information. Also, many of the sites require a Discover Pass since they are on or are accessed by state roads.

## Old business:

The WSMC display cases will be needed for the North Seattle show and the Federation show.

Brad Johnson was the last person to have the cases but we do not have his current contact information. If anyone knows how to contact Brad please pass it along to any of the board members.

Bob and Stu have not had a chance to go to Olympia this winter. Their presentation on how much rockhounding adds to the state economy is complete and Bob is ready to present it to the DNR.

## New business:

Is the Walker Valley lease worth it? There was a brief discussion of the merits and disadvantages of keeping the lease.

Even though the lease fee keeps increasing, it was felt that the value of Walker Valley as a recreational and educational site outweighed the increased cost.

Sad news—Stu Earnst has been diagnosed with lung cancer. We do not know what stage he is at. Out thoughts and prayers

## February 16, 2016 Westside Board Meeting AGENDA

Opening of Meeting  
Treasurer's Report  
◇ Kathy Earnst  
Committee Reports  
◇ Wagonmaster -Ed Lehman  
Old Business  
New Business  
Open Comments

## Meeting Calendar for 2016

West side board meetings:  
1/19, 2/16, 6/21, 8/16, 10/18

At 7:30PM at the  
Maplewood Clubhouse  
8802 196th St SW, Edmonds

General meetings :  
3/19, 5/21, 9/24, 11/05

All general meetings will be held at:

Palace Café  
4th & Main  
Ellensburg  
Meeting @ 9:30 AM

## GPS Co-ordinates Needed

The WSMC needs the GPS co-ordinates of any and all of the collecting sites in the state. In an effort to make the map booklets as accurate as possible the Mineral Council is asking for everyone to record GPS readings while on field trips. The data can also be used to help in our fight to keep our collecting areas open.

## The Washington State Mineral Council web site has MOVED.

Please update your web browsers to the new URL  
<https://mineralcouncil.wordpress.com/>

The move allows the website to use Wordpress without having to upgrade our web hosting account.

The old URL [www.mineralcouncil.org](http://www.mineralcouncil.org) will continue to re-direct you to the new location.

## 2016 WSMC SPONSORED FIELD TRIPS

The Washington State Mineral Council plans guided fieldtrips to collecting sites. Open to member clubs, and the general public. Most trips are free. Included are the Pow Wow trips (must join to go on trips). Host clubs and contact persons will be set up as I gather info. For updated information, go to: [mineralcouncil.wordpress.com](http://mineralcouncil.wordpress.com), or contact Ed Lehman at [wsmced@hotmail.com](mailto:wsmced@hotmail.com), or home (425) 334-6282 or cell (425) 760-2786.

**ALWAYS contact host for updated info a week before trip !!!**

| Date    | Host       | Site               | Meeting Place & Time             | Material                      | Tools           |
|---------|------------|--------------------|----------------------------------|-------------------------------|-----------------|
| 1/16    | Marysville | Beaver Valley      | 10:30 @ INFO center              | Chert & Zeolites              | Hard rock       |
| 1/30    | Darrington | Walker Valley      | 9:00 @ Big Lake Store            | Geodes & Agate                | Hard rock       |
| 2/20    | Marysville | Cedar Ponds        | 9:00 @ Monroe Jack n Box         | Jasper                        | Dig & Hard rock |
| 3/19    | Marysville | Cherry Creek       | 9:00 @ Duvall Safeway            | Jasper                        | Dig & Hard rock |
| 4/16-17 | POW        | Saddle Mt.         | 8:00 @ Boat Launch               | Petrified Wood                | Dig & Hard rock |
| 5/7     | Darrington | Racehorse Creek    | 9:00 @ IGA @ Nugent's Corner     | Fossils, Mushrooms            | Dig & Hard rock |
| 5/21    | Ellensburg | Saddle Mt.         | 9:00 @ Mattawa Lepricon Market   | Petrified Wood                | Dig & Hard rock |
| 6/10-14 | Spokane    | Succor Creek & McD | Call Host for Information        | ThunderEggs & Agate           | Dig & Hard rock |
| 6/18    | Darrington | FR 17 & 18         | 9:00 @ Darrington IGA            | Jade, Serpentine, Hematite    | Dig tools       |
| 6/23-26 | NWOS       | Madras, OR         | 8:00 @ County Fair Grounds       | Agate, T-Eggs, Petrified wood | Dig & Hard rock |
| 7/16    | POW        | Sweetwater         | 10:00 @ Darrington Show (Grange) | Travertine                    | Dig & Hard rock |
| 8/20-21 | NWOS       | Greenwater         | 9:00 @ Enumclaw Ranger Station   | Agate & Jasper                | Dig & Hard rock |
| 9/10-11 | POW        | Teanaway           | 8:00 @ Teanaway Camp             | Geodes, Agate, Jade           | Dig & Hard rock |
| 9/24    | NWOS       | Little Naches      | 9:00 @ Enumclaw Ranger Station   | ThunderEggs & Lilypad Jade    | Dig & Hard rock |
| 10/15   | Marysville | Money Creek        | 9:00 @ Money Creek Camp Ground   | Ore & Picture Jasper          | Dig & Hard rock |
| 11/19   | Mt Baker   | Blanchard Hill     | 9:00 @ I-5 Exit 240 Gas Station  | Dalmation Stone               | Hard rock       |

### HOST

### CLUB

### CONTACT INFO

Msvl = Marysville Rock Club

Dar = Darrington Rock Club

Pow = All Rockhounds PowWow Club

Elb = Ellensburg Rock Club

Spk = Spokane Rock Rollers

Nwos = Northwest Opal Society

HC = Hells Canyon Rock Club

Ed Lehman—wsmced@hotmail.com (425) 334-6282 (425) 760-2786

Ed Lehman—wsmced@hotmail.com (425) 334-6282 (425) 760-2786

Larry Vess—vessel3755@gmail.com (253) 473-3908

Steve Townsend—srtrocks@aol.com (509) 607-1446

Mike Shaw—mikeshawmoose@yahoo.com (509) 244-8542

Tony Johnson—(253) 863-9238

Dan Cease—rockmangem@q.com (509) 254-1720

Keep updated on <http://www.mineralcouncil.wordpress.com>. Land management changes, and roads close regularly. There is a area on web page with tool category with pictures and names of tools.

Always have proper clothes and gear for conditions. Be prepared with safety, first aid, food, and drink.

A week before trips, I (Ed Lehman) will have a pdf file with map and info for that trip I can send you on request. I will do the same to trip host.

Try to be at meeting site at least 30 minutes before trip time for details and instructions with a full tank of gas. There will be a display of rough and finished material for that trip. Some of the meeting sites are at eating places, join us for breakfast.

**Many rock shows will have a WSMC booth with our WA St rockhounding maps for sale, and information. Map books are for sale at trip meeting. Sale of books finance WSMC, and buy the insurance to get us access to private land to collect.**

Remember our code of ethics. Keep the lands open to rockhounding (remind or public guardians they are our employees, and it is our land).

Ed

go out to him and his family.

Meeting adjourned,  
Submitted by  
Glenn Morita, Secretary Pro-Tem

### Hints on Mineral Cleaning

**Crystals** - Red and brown stains on quartz crystals can be removed by soaking in a concentrate solution of oxalic acid. Black stains may be due to manganese.

**Hanksite** can be cleaned with mineral oil.

**Fluorite** can be cleaned with a little hydrochloric acid (HCL); the acid will corrode limestone so don't over do it. Bathe your specimen and rinse it in water after words.

**Barite** can be cleaned in HCL; it will loosen clay and iron.

**Water Soluble Minerals** - use alcohol.

**Borax Minerals** - use mineral oil for preserving from hydration changes.

**Calcite matrix can be removed** by placing specimen in vinegar, or acetic acid.

**Silver** can be cleaned with a weak solution of HCL.

**Carbon Minerals** - try Clorox full strength. If this does not work try a weak solution of oxalic acid.

**Pyrite & Marcasite** - these sulphide minerals can be made bright by soaking over night in a solution of oxalic acid, using two ounces of oxalic to a quart of water; or soaking for half hour in HCL.

**Selenite Crystals** may be cleaned by washing very gently in water to which detergent has been added.

**Algae and Lichens can be removed** from specimens with dilute of ammonia solution.

*via Stone Age New 11/15, via Petroglyphs, The Tumbler, 9/15; via The Agatizer, 6/15; original source unknown*

### Green Minerals of the Mid-Atlantic Region: Clinochlore

Timothy Foard

Clinochlore  $(Mg,Al)_6(Si,Al)_4O_{10}(OH)$  is a member of the chlorite group, which consist of about a dozen greenish minerals that are similar in composition, and sometimes, appearance to the micas. The first part of its name refers to its inclined optical

axis which is revealed when a section of the mineral is viewed under polarizing microscope, and the second part of its name refers to its characteristic green color. Clinochlore was initially called chlorite, but now the former is often used to refer to any number of green minerals.

It is one of the most common members of the chlorite group and was first discovered in 1851 in Chester County, Pennsylvania. The crystals are monoclinic in nature, but pseudo-hexagonal crystals occur. It has a hardness of 2-2.5 and perfect cleavage in one direction. It sometimes takes the appearance of one of the green micas, but the sheets are often described as flexible, but lack the elasticity which is characteristic of the micas.

The mineral also occurs in massive and granular forms. It forms a solid solution with an iron containing chlorite mineral, chamosite, which is almost as common. Despite its abundance, large, well-formed crystals are not common. It is a secondary mineral of low-grade metamorphism of other silicates such as amphibole or biotite and occurs in schists and serpentine, in part contributing to the green color of these rocks. It is also present as a coating to other minerals such as quartz and calcite and sometimes occurs as inclusions within these minerals.

Clinochlore has limited use as a gemstone because it is a relatively soft mineral, but they make attractive cabochons. A deep purple chromium containing variety, kammererite, is very popular among collectors.



**Chlorite(Clinochlore)Sheet R.Weller/Cochise College.**  
<http://skywalker.cochise.edu/wellerr/mineral/chlorite/chlorite1.htm>

Sources

Clinochlore Mindat.org.  
<http://www.mindat.org/min-1070.html>

Dana's Textbook of Mineralogy, with an Extended Treatise on Crystallography and Physical Mineralogy, by Edward Salis-

bury Dana. Fourth Edition, 1932. John Wiley and Sons, 851 pp.

Fleischer's Glossary of Mineral Species 2008. Malcolm E. Back and Joseph A. Mandarino. The Mineralogical Record, Inc., Tucson, 345 pp.

The Mineral Clinohlore. Minerals.net  
<http://www.minerals.net/mineral/clinohlore.aspx>

via SMRMC Rock Talk 12/15

## Big Differences In UV Tubes

by Doug Mitchell

I had heard before that different UV lights make for different fluorescences. But I never realized that using a different longwave UV tube could make the difference between yellow and red, or the difference between bright fluorescence and no fluorescence.

While differences in glass, reflectors, and filters can make a significant change in results, the difference that has been surprising many of us lately comes from the differences in the phosphors used in longwave UV tubes. Longwave UV is most commonly produced by using a low-pressure mercury vapor lamp to produce shortwave UV, and coating the inside of the tube with a phosphor that fluoresces by emitting longwave UV rays. There is much visible light produced also, so filtering is needed. When filtering is built into the glass of the tube, it appears dark purple and is called a "BLS" (Black Light Blue) tube. When no filter is built in, the tube appears white, and is called a "BL" tube.

The longwave UV phosphors used in these tubes evidently fall into two major categories: those producing UV peaking at 350 nanometers (nm) in wavelength, and those with a peak near 370 nm. This appears to be the difference that produces the greatest color variations in fluorescent minerals. While most minerals that fluoresce under longwave UV appear similar under both types of UV light, the differences can be dramatic, in some cases.

Those agrellite specimens we have tried will fluoresce their unusual magenta-pink color under the 350 nm lamps, but appear to not fluoresce at all under 370 nm lamps. "Terlingua-type calcites are often also affected some Mexican optical calcites that fluoresce blue violet under shortwave UV (and phosphoresce afterwards) are yellow-white under 350 nm and orangish-pink under 370 nm, while others are pink under 350 nm and orange-pink under 370 nm. Agates and chalcedonies that fluoresce yellowish-green under 350 nm may fluoresce greenish-white under 370 nm.

Since the two different types of longwave are not clearly identified as such, there are possibilities for confusion if a dealer shows a specimen under a lamp of one type and the buyer takes

it home to lamps of the other type. Let the agrellite buyer beware!

There is no such problem for shortwave UV tubes - since there is no phosphor involved, just the direct emissions from low-pressure mercury vapor, the peak is consistently a narrow one at 254 nm. But the newly popular midwave UV tubes have this problem of phosphor variations to a still larger extent.

via CMS Tumbler 12/15, from UV Waves 1-2/96: via West Seattle Petroglyphs, 11-12/15

## Fluorescent Minerals

Ultraviolet light is not visible to the human eye. Fluorescent minerals are minerals that when exposed to ultraviolet light emit visible light.

Most minerals do not fluoresce when pure but there are a few minerals that will fluoresce when pure. Scheelite is one. A tungsten ore is often noted for its brilliant sky-blue fluorescence. If it has a little molybdenum in its color is modified to white or yellow. Often it takes impurities in the mineral to make the mineral fluoresce. A common fluorescent mineral is calcite. It comes in just about all fluorescent colors due to different impurities. Red and pink fluorescent calcites are often activated by manganese. Calcite from the mercury mines at Terlingua, Texas, and just across the border into Muzquiz, Coahuila, Mexico, is a favorite. It fluoresces pink under longwave UV and bright blue under shortwave UV, with a uniquely bright blue phosphorescence after the UV lamp is removed. Franklin, New Jersey specimens are exceptionally bright and colorful. It is the source of at least 56 fluorescent minerals. Many of these minerals are found nowhere else in the World. Willemite and calcite are the most common fluorescent minerals from the Franklin area. Exceptional specimens will contain combinations of; calcite, willemite, hardystonite, clinohedrite and esperite.

from CMS Tumbler 12/15, via Gem, Mineral, and Geological Education and Experience: 4/14; via West Seattle Petroglyphs, 11.12/15

## Dues are due

Download the PDF or Word version from the WSMC website in the Misc. Resources menu.

Please send the dues and form to Kathy Earnst

27871 Minkler Road  
 Sedro Woolley, WA 98284

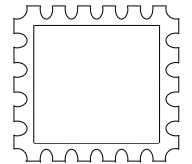
## Local Area Shows for 2016

|  |  |   |  |
|--|--|---|--|
| February 2016<br>13th 9am—5pm<br>14th 9am—4pm  | Whidbey Island Gem Club                  | 51st Annual<br>Sweetheart<br>of Gems Show   | Oak Harbor Senior Center<br>51 SE. Jerome Street<br>Oak Harbor, WA                     |
| February 2016<br>12th 9:30am – 5:30pm<br>13th 9:30am – 5:30pm<br>14th 9:30am – 5:30 pm | Oregon Agate and Mineral<br>Society      | OAMS Gem and Mineral Show   | OMSI<br>1945 SE Water Avenue<br>Portland OR 97214                                      |
| February 2016<br>27th 10am—6pm<br>28th 10am—5pm  | Idaho Gem Club                           | Annual show<br>\$4.00, under 12 free<br>w/adult   | Expo Idaho<br>5610 Glenwood<br>Boise ID 83714  |
| March 2016<br>4th 8:30am - 6pm<br>5th 9am - 5pm  | Panorama Gem<br>and<br>Mineral Club      | Annual show   | NE Washington Fair Grounds,<br>Ag Trade Center<br>317 West Astor<br>Colville WA        |
| March 2016<br>5th 10am - 6pm<br>6th 10am - 5pm   | East KingCo Club                         | Annual Rock and Gem Show  | Pickering Barn<br>1730 10th Ave NW<br>Issaquah, WA                                     |
| March 2016<br>5th 10am - 6pm<br>6th 10am - 5pm   | Owyhee Gem & Mineral<br>Society          | 62nd Annual Rock<br>and Gem Show  | O'Conner Field House<br>2200 Blaine<br>Caldwell, ID                                    |
| March 2016<br>11th 10am - 5pm<br>12th 10am - 5pm<br>13th 10am - 5pm                    | Tualatin Valley Gem Club                 | Annual Show   | Washington County FairPlex<br>873 NE 34th Ave.<br>Hillsboro, OR.                       |
| March 2016<br>12th 9am - 5pm<br>13th 9am - 5pm   | Magic Valley Gem Club                    | 65th Annual Show  | Twin Falls County Fairgrounds<br>215 Fair Ave.<br>east of Filer on US Hwy. 30          |
| March 2016<br>12th 10am - 6pm<br>13th 10am - 4pm                                       | Northwest Montana<br>Rock Chucks         | 9th Annual Rock<br>and Mineral Show<br>\$1, kids free   | Flathead County Fairgrounds<br>Grandstand Bldg.<br>265 N. Meridian Rd<br>Kalispell, MT |
| March 2016<br>19th 9am - 6pm<br>20th 10am - 5pm  | Hellgate Mineral Society                 | Gems Of Montana 22 <sup>nd</sup> Annual<br>Gem, Mineral and Fossil Show<br>\$2, under 14 free w/adult | Hilton Garden Inn<br>2730 North Reserve St.<br>Missoula MT                             |
| March 2016<br>19th 10am - 5pm<br>20th 10am - 5pm                                       | North Seattle Lapidary<br>& Mineral Club | 62nd Annual Rock and Gem Show   | Lake City Community Center<br>12531 28th Ave. NE, Seattle                              |
| March 2016<br>25th 10am – 6pm<br>26th 10am – 6pm<br>27th 10am – 4pm                    | Rock Rollers Club<br>of Spokane          | 57th Annual Gem,<br>Jewelry and Mineral Show  | Spokane County Fair & Expo Center<br>N.604 Havana<br>Spokane WA                        |
| March 2016<br>26th 10am - 6pm<br>27th 10am - 5pm                                       | Mt. Baker Rock<br>& Gem Club             | 54th Annual<br>Rock and Gem Show  | Bloedel-Donovan Park<br>2214 Electric Ave.<br>Bellingham WA                            |
| March 2016<br>26th 10am - 6pm<br>27th 10am - 5pm                                       | Sweet Home Rock<br>& Mineral Society     | 68th Annual<br>Rock & Mineral Show  | Sweet Home HS Activity Gym<br>1641 Long St.<br>Sweet Home, OR                          |
| April 2016<br>9th 10am - 6pm<br>10th 10am - 5pm  | Idaho Falls Gem<br>& Mineral Society     | 52nd Annual<br>Show   | Idaho Falls Recreation Center<br>B Street<br>Idaho Falls, ID                           |

Westside Board Meeting  
February 16, 2016  
7:30 PM

**Maplewood Clubhouse**  
**8802 196th St SW**  
**Edmonds**

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