



THE GEODE

Lakeside Gem and Mineral Club, Inc. (LGMC)

www.lakesidegemandmineralclub.com E-mail: lakesidegemandmineralclub@yahoo.com

Volume 81, Issue 10

November 2014

Club purpose: Promote activities of mutual interest for collecting and displaying of gems and minerals.

Address: Lakeside Gem & Mineral Club, Inc., PO Box 6652, Kennewick, WA 99336-0603

Reserve the date – Christmas party
December 13th, 12 noon



Club Meetings in November

November 5, 2014 Club meeting – 6:30 social, 7:00 p.m. meeting.

Seventh Day Adventist Church, 7305 W 10th Ave., Kennewick, WA

Refreshments: Rhea Bowerly, Andy Johnson, Sally Lyon, Tina Murphy, and Laurie Weed

Coordinator: Mary Lou Omstead. *Thank you!*

Program:

“Rocking with the Stars” – Annual Show and Tell Awards

See page 5 for revised awards category details.

Event coordinator: Evelyn Cataldo. Programs Coordinator: Kathryn Larson.

Bragging table theme: Thanksgiving pumpkin rocks

What is it? Members are invited to bring one rock or mineral per meeting for identification

November 11, 2014 Junior Club meeting -- 6:30 pm

Banner Bank, 203 W 1st Ave., Kennewick, WA; Junior Club Leader Thora Trumbo (509) 582-4297

November 17, 2014:

Board meeting – 6:30 pm; Seventh Day Adventist Church (address above).



Annual Membership Renewals Invited

Still a great family entertainment value at just \$20/adult member, \$25/family. Deadline 12/31/14.

See page 11. Pat Lambert, Memberships

GEODE Submission Deadlines:

- 15th – member articles & photos
- Day after Board mtg. - officer & committee contributions

E-mail them to carol.devine2@frontier.com

or call (509) 967-0589 to make other arrangements

GEODE Reprint Permission:

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Member contact information updates:

Please notify the Memberships Chair or Carol Devine.

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Dates		October 2014 Regional Events	
25-26	Clackamette Mineral & Gem Club Annual Show 25 th : 9 am – 6 pm; 26 th : 10 am – 5 pm	Clackamas Co. Fairgrounds 694 NE 4 th Ave., Canby, OR	Beth Heesacker heesacker@coho.net
	Bellevue Rock Club Annual Show 10 am – 6 pm Saturday, 10 am – 5 pm Sunday	Vasa Park, 3560 W. Lake Sammamish Parkway SE, Bellevue, WA 98008	Dave Scott lagger175@yahoo.com
Dates		November 2014 Regional Events	
7-9	Gem Faire (jewelry, gems, beads, crystals, minerals, gold & silver, fossils, findings)	Red Lion Columbia Center, Kennewick, WA 12 – 6 pm Fri., 10 am – 6 pm Sat., 10 am – 5 pm Sun.	
8	Field Trip – Mount Baker Rock & Gem Club Meets 9:00 at I-5 exit 240 gas station	Blanchard Mountain Dig for Stilpnomelane & Chart in hard rock	Kris Menger, (360) 927-0994
8-9	Maplewood Rock & Gem Annual Show 9 am – 5 pm Saturday, 10 am – 5 pm Sunday	Maplewood Clubhouse 8802 196 th St SW, Edmonds, WA	Don Wilcox (206) 226-1868
	Skagit Rock & Gem Club Annual Show 9 am – 5 pm Saturday, 10 am – 5 pm Sunday	Sedro Woolley Community Center 700 Pacific St., Sedro Woolley, WA	Linda Keltz (360) 424-6525
9	LGMC: Byzantine chain maille class. Some prior experience with chain maille is helpful.	Contact Chris Sorensen for details, a materials list, and to pay the registration fee.	Chris Sorensen 392-1362
13	LGMC: flint knapping, self-paced workshop. 6 – 9:00 pm No fee.	803 S. Edison St., Kennewick, WA Shaped flint slabs and tools provided	Frank Omstead (509) 783-2798
15	Annual Auction, Columbia-Willamette Faceters Guild Preview at 5:30 pm, auction at 7 pm	OMSI Auditorium 1945 SE Water Ave., Portland, OR	president@facetersguild.com Gail Bumala
16	LGMC: Helm (parallel) chain maille class. Some prior experience with chain maille is helpful.	Contact Chris Sorensen for details, a Materials list, and to pay the registration fee.	Chris Sorensen 392-1362
18-19	LGMC: cabochon, self-paced workshops. 5:30 – 9:30 pm Fee \$1/hr.	803 S. Edison St. Kennewick, WA	Mary Lou Omstead (509) 783-2798
Date		December 2014 Annual Club Event	
13	LGMC: Christmas Party 12:00 noon	Caldwell Banker Building Kennewick, WA	Watch for further detail in a flier mailed closer to December 13th

Welcome, new Club officers!

- Evelyn Cataldo, President
- Chris Sorensen, Vice-President
- Wayne Larson, Director
- Marty Casto, Past President (on behalf of Dave Westland)

These two year terms of office begin November 1, 2014. Special thanks to the outstanding Club members who offered their candidacy for these Board of Directors positions.

Thank you, outgoing Club officers!

- Dave Westland, President
- Marty Casto, Vice-President
- Steve Shoemaker, Director
- Larry Hulstrom, Past President

Available Club leadership roles

- Secretary (Board Member) – through October 2015
- Annual Show Chairperson
- Rockhound Legislative Advocate
- Memberships
- Asst. Junior Club Leader
- Asst. Legislative Advocate
- Asst. Bulletin Editor
- Refreshments
- Door Prizes/Speaker Gifts

Please notify Evelyn Cataldo or Chris Sorensen of your interest in any of these important Club positions.



Resources for Club Members

- **Rock saw oil.** Max Hatfield - (509) 582-6028
- **Tumbling grit.** \$2/lb. For every 5 lbs. of tumbled rock you donate, get 1 lb. of grit free. Frank & Mary Lou Omstead - (509) 783-2798



THE GEODE JR GEMS

Lakeside Gem and Mineral Club Kid's Corner
Lakeside Gem & Mineral Club, Inc., PO Box 6652, Kennewick, WA 99336-0603

Minutes – Junior Club Meeting – October 14, 2014

At the Lakeside Junior Rock Club meeting on October 14, 2014, Grace our Vice President called our meeting to order at 6:30 pm. New business is that we are having elections for President, Vice President, and Secretary. The rock auction is next month and Chris Sorensen is going to be our guest speaker. Someone brought show and tell which was Joy. We had some door prize winners, which were Mersadie, Mason, Joy. We had one mineral of the month report which was presented by Allison with Apophyllite. Mineral of the month winners include Allison, Kevin, Mersadie. A special happy birthday to Grace and Grandma Trumbo. There is a gem fair in Kennewick at Red Lion on Columbia Center November 7,8,9.

The meeting was adjourned at 7:30 pm. Our next meeting will be on **November 11, 2014** at 6:30 pm at Banner Bank. Bring your coins for the auction, and plan to run for a Club office.

Respectfully submitted,
Makenna B., Junior Club Leader



Coming Programs:

November – Rocks of Washington (Chris Sorensen); elections, rock auction

December – Christmas party

January – Trilobites (Evelyn Cataldo)

Report: Apophyllite

Allison C. (age 6)

- **Apophyllite** is Greek meaning to flake off.
- **Color** is clear, white, green, yellow, pink, violet or rarely brown.
- Apophyllite is found in ancient lava and basalt flows. The crystals grow in the now solid cavities.
- **Specific Gravity** 2.3 to 2.4
- **Hardness** 4.5 on the Mohs scale

Help Allison and our other junior members learn to love this hobby as you do. The Junior Club is seeking an Assistant Junior Club Leader. To volunteer, please contact Thora Trumbo.



Letter from Our Incoming President

Thank you for electing me as your new Club President. I appreciate the vote of confidence and will work to make the next two Club years fun and informative.

Between the growth in our membership and the limited amount of time we have to socialize at meetings, I have not had an opportunity to meet all of you. To those that I have not had a chance to visit with, I offer this glimpse into my life.

I grew up on a small farm in Ohio. After marrying my husband, Dominic (the “big city boy”), we lived in Cleveland, Columbus and Dayton, Ohio; New Haven, Connecticut; and Madison, Wisconsin before moving to Kennewick.

In 1974, when Dom’s profession brought us to Kennewick, we were delighted to learn that we were now living within driving distance of some great rock hunting locations. We soon joined the Lakeside Gem & Mineral Club to learn more about where to look for rocks and how to identify what we found. We soon learned that those “free rocks” have some not-so-free needs! Things like a pick-up truck, a rock saw, a Genie, etc. But it has been fun and we have acquired so many good friends via our rockhounding activities. Even after 40 years, the excitement associated with finding that special rock, whether personally dug or purchased, has not diminished. Montana agate, Bruneau jasper, dinosaur bone and fossils are my favorites. We also have a significant petrified wood collection.

For almost four decades, I was an active real estate broker. I retired in October 2013 and have been enjoying my new, relaxed life style. Dom is now retired from corporate life but does private research from his small laboratory.

I have been active in the Lakeside Gem & Mineral Club for many years. I have experienced being Treasurer, Club Director, Field Trip Chairman, Bulletin Editor, Program Chairman, Vice-President, Federation Director, Mineral Council Representative, By-laws Committee, Highway Cleanup Chairman, Annual Show Chairman several times and various other special committees. I am a Past President of the Northwest Federation of Mineralogical Societies and chair the Past Presidents’ Council. I am also involved in the American Federation of Mineralogical Societies as Chairman of the Rockhound of the Year Committee.

In conclusion, if I have not previously met you, please introduce yourself to me at the next meeting. I invite all members to contact me if you have an idea for a program, field trip or suggestions of how to improve our meetings. We are a club of volunteers and it takes all of us working together to make a successful club. See you soon.

Evelyn Cataldo, President

Club Meeting Program November 5, 2014

“Rocking With the Stars” Annual Show & Tell Awards

Get ready for the annual Club event at which we gather with friends to share this past year’s rocks, projects and tales. This is always a fun, fun night for all. The more members that participate, the merrier the evening.

Time Period: Your entries must have been bought, found or made between November 1, 2013 and October 31, 2014.

Remember: Only one entry per category per member. A member may enter one item each in two or more categories.

Category 1 – Collector of the Year: This award is for the best personal find of the year while out rock hunting. It can be a fossil, mineral specimen, gemstone or rock – either rough or finished. You need to have dug it or found it yourself.

Category 2 – Cabochon of the Year: Show us your talent by entering the best-looking cab (intarsia included) that you personally cut and polished. This cab should **not** be set into a mounting so the judges can see your technique on the edges and back. If your cabochon has been set, then it needs to be entered into Category 5.

Category 3 – Silverpicker of the Year: Bring something (cab, stone, carving, rock, jewelry, etc.) that you have purchased at a rock show, rock shop, yard sale or from a hobbyist that will impress us.

Category 4 – Faceter of the Year: Bring your bling and treat us to the sight of the best gemstone of the year that you have personally cut. The gemstone can be in a setting.

Category 5 – Project of the Year: Show us your flair and skill by entering something that you have made between 11/1/13 and 10/31/14 that incorporates rock in some manner. It can be a sphere, bookends, a gem tree, a carving, an educational exhibit, or ????. If you made it using rock, it’s eligible. **Please note the new Category 7 for jewelry!**

Category 6 – Steal of the Year: Some of you have a real knack for finding “great deals”. Bring a rock or rock-related item that you have purchased during the contest period that cost between \$1 and \$10. **Free rocks are not eligible.** Showcase your genius for searching out bargains.

(New this year!) Category 7 – Jeweler of the Year: Have you constructed/made something between 11/1/13 and 10/31/14 that is used for personal adornment? Then this is your category. This would include necklaces, belt buckles, rings, pins, earrings, bolas, bracelets, etc. This is the category for wire wrapping, beading, wire weaving, silversmithing, etc.

All entries will be presented to the judges (your fellow club members) prior to the refreshment break. Voting will be during the break. Often the story about your entry will sway the judges in your favor.

Evelyn Cataldo, Event coordinator

Gem Identification

Jerry Johnson, Gemologist

A mineral is a naturally occurring inorganic material of essentially constant chemical composition, usually possessing a definite crystal structure. Since each mineral species possesses a constant chemical composition and a characteristic crystal structure, it follows that each species will have a constant set of physical and optical properties. This constancy of properties makes it possible to identify gem materials.

There are a number of destructive tests that are commonly used to evaluate minerals (hardness, chemicals and certain types of x-ray analysis). Since I will be focusing on gemstones I will not cover the destructive tests as we want to maintain the integrity of the gem.

The tests to be discussed are specific gravity, refractive index, double refraction, optic character, pleochroism, and observation with magnification.

Specific Gravity

Specific gravity (S.G.) is the ratio of the density of any substance to that of water and thus the SG does not have any units, it is only number. The SG can be determined with a beam balance or with heavy liquids of known density. Since many of these heavy liquids are toxic I will only discuss the use of a beam balance.

First, the gemstone is weighed in air and let's say it weighs 4 grams. Next the stone must be weighed in water (fully immersed). Special attachments are used to hold the stone in the water. We determine that the weight in water is 3 grams. The SG is:

Weight in air divided by the quantity (weight in air – weight in water).

Thus we have: $4/(4-3) = 4/1 = 4$. So, the SG is 4.

Some SG's of gemstones:

Almandine garnet:	4.05
Sapphire/ruby:	4.00
Spinel:	3.60
Topaz:	3.53
Jadeite:	3.34
Tourmaline:	3.06
Beryl:	2.72
Quartz:	2.66
Chalcedony:	2.60
Opal:	2.15

Refractive Index and Double Refraction

When a beam of light passes from air into another transparent material its velocity is reduced. The ratio of the velocity of light in air to the velocity of light in the material is called the refractive index (RI).

Light passing obliquely from air into an optically denser substance is bent. Now, the ratio of the sine of the angle of incidence (AI) to the sine of the angle of refraction (AR) is related to the RI as: **RI = sine AI/sine AR**

A device known as a refractometer is used to measure the RI. The RI can also be estimated immersing the gem into a series of fluids with known RIs.

It is important to note that gemstones may be singly or doubly refractive (two RI readings). There are six crystal systems: isometric, hexagonal, tetragonal, orthorhombic, monoclinic and triclinic. Crystalline gems in the isometric system are singly refractive, while gems from the other 5 systems are doubly refractive.

I won't go into all the details of measuring the RI with a refractometer, but one must always rotate the stone to see if more than one reading is obtained. It is also important to make the measurement from at least two facets (e.g., the table and a pavilion main).

One simple way to see if a stone is singly or doubly refractive is to rotate the stone in a polariscope with crossed polaroids (no light transmission). A double refractive stone will alternate between being dark and light every 90 degrees. Singly refractive stones remain dark.

Refractive Index of some gemstones:

Diamond	2.417
Cubic zirconia	2.16
Almandine garnet	1.80
Corundum	1.762-1.770
Peridot	1.654-1.690
Tourmaline	1.624-1.644
Beryl	1.577-1.583
Quartz	1.544-1.553

Optic Character

The optic character refers to the optical properties of a gemstone, and in particular, to the number and position of optic axes. The optic axis in a doubly refractive stone is a direction in which no double refraction occurs, thus if a stone has its optic axis perpendicular to the surface of the refractometer only one reading will be obtained. That is why a stone should be evaluated in more than one position on the refractometer.

Gemstones can be uniaxial or biaxial with respect to the double refraction. A uniaxial stone has one optic axis and a biaxial stone has two optic axes. Observation of the optic figure is performed with a polariscope, a quartz wedge and a glass sphere. I won't discuss the various optic figures, but would like to illustrate how this measurement can be quite useful. Amethyst (quartz) and purple scapolite can have the same hue and thus appear to be the same. The SG of quartz is 2.66 and the SG of scapolite is 2.68. SG measurements are difficult to get a reading that is better than plus or minus 0.002. If both stones have the optic axis perpendicular to the table of the stone, then there will be only one RI value which will be about 1.55. The optic figure clearly separates these two stones. Quartz has an optic figure not seen in any other gems and is easily recognized.

Pleochroism

Most doubly refractive gems exhibit 2 or more colors when viewed in different directions in transmitted light, although this may be hard to see with the naked eye. Light traveling in separate paths and at different velocities in a colored stone will suffer unequal absorption and emerge as different colors. This property is called pleochroism. A dichroic stone exhibits 2 colors and a trichroic stone has 3 colors.

Pleochroism is best observed with an instrument called a dichroscope. It is a small tube with a square aperture at one end and low power lens at the other end. The tube contains a calcite prism with polished ends. In using the device, a stone is held in front of a strong light. The dichroscope is held in front of the stone. Two colored images will be seen. As the dichroscope is rotated the colors in the two images will change.

Sapphire, ruby and tourmaline exhibit pronounced color differences. Although many gems are doubly refractive, the number that show strong dichroism is small. Even though the dichroism is weak it still is proof of double refraction.

Observation with magnification

A gemological microscope is set up to evaluate faceted stones with dark field illumination. This type of lighting enhances the inclusions, striations, flaws and zoning within the gemstones. Many gemstones have characteristic inclusions: needle-like inclusions intersecting at angles of 70 and 110 degrees in almandine garnet; needle-like inclusions intersecting at 60 degrees in corundum, three phase inclusions in emeralds; octahedral inclusions in spinel and bubbles in glass and synthetic gemstones. Growth lines in synthetic corundum can be seen when diffused lighting is employed. Doubling of pavilion facets can be seen for zircons.

Special tests

Some gems will fluoresce with exposure to ultra-violet light. Examples that fluoresce are: diamond, zircon, synthetic corundum, synthetic spinel and natural spinel, topaz, amber, calcite and fluorite.

While almost all gems can be identified with the methods discussed, there may be special circumstances where more evaluation is needed. Stones can be sent to the Gemological Institute of America (GIA) for more scientific testing. Such items that can be evaluated are the visible wave-length absorption spectrum, specific elemental analysis with x-ray fluorescence, and Fourier Transform Infra-red spectroscopy.

Proper application of the tests discussed in this article requires instruction and training. I obtained my skills via course work with the GIA to become a gemologist.

Jerry Johnson

Permission is given to reprint this article in other club newsletters provided no changes are made and credit is given to the original source.

Minutes – Club Meeting – October 1, 2014

Outgoing Club President Dave Westland opened the meeting at 7:00 p.m.

Guests were introduced and welcomed.

Minutes of the September 3rd Club meeting published in the Oct. Geode were approved. The articles and photos submitted by members sharing their travel adventures were nice and appreciated.

Treasurer’s report: (no report provided).

Committee reports:

- Carol Devine requested assistance from Club members willing to help her friend replace the turquoise stone in her wedding ring. [Dave Westland and Marty Casto offered assistance during the break.]
- Field trip wagon masters for Club field trips are needed.
- Steve Shoemaker said there will be a rock show in Hillsboro October 11th.
- Our Club flint knappers have been invited to demonstrate at the Reach Show on October 10th from 8:30 – 12:00 noon.
- Thora Trumbo is requesting a volunteer to serve as Assistant Junior Club Leader. Please contact her directly.



Dave Westland
Club President

Annual Officer Elections – The election was held by secret ballot, and absentee ballots were included.

Congratulations to our new officers: President – Evelyn Cataldo, Vice-President – Chris Sorenson, and Director – Wayne Larson. Their two year terms of office begin November 1st.

New Business

- As authorized by the Board, Marcia Monthey has obtained a set of CDs titled The World’s Greatest Geological Wonders, which includes outstanding 30 minute lectures by university professors. These will be part of the Club library.
- **Annual Christmas Party & Potluck** – The December event is in planning. Volunteers are needed to serve on the event committee. To volunteer, see Dave Westland during the break.
- Start thinking now about your entries for the **Annual Show and Tell Awards** at the November meeting.

Announcements

- **Condolences** – We are saddened to learn that rockhound Don Hornick of Hermiston died this past week. Don participated in many LGMC field trips through the years, and was a good friend to many in this Club.
- **Chain maille classes** – Chris Sorensen will teach byzantine chain maille November 9th, and Helm Parallel chain maille November 16th. See sign-up sheet.

Door prizes: Recipients were Carl Miles and Jean Smith. Three mystery bags of rocks were won by members and guests.

Program: Our Adventures at Hancock Station Sept. 2014

Presenters: Ron & Myrene Northey, Kathy & Wayne Larson, Mary and Allen Early, Chris & Jerry Sorensen. Slide show provided and narrated by Kathryn Larson.



Next Meeting: November 5, 2014, 6:30 social, 7:00 pm meeting

Program: “Rocking with the Stars.” Annual Show & Tell night.

The meeting adjourned at 8:45 p.m.

Respectfully submitted,
Carol Devine, Acting Secretary

*Daylight savings time
ends at midnight Nov. 1st.*

LGMC Committees – November 2014			
To get acquainted, get involved. New talent always welcome!			
Field Trips Coordinators	Ammon Bruce – 551-6526	Memberships	Pat Lambert – 582-6028
	Heather Moon – 586-1978	Website Manager	Sean Hall – 788-5130 Prosser
Meeting Programs	Kathryn Larson – 586-1203	Librarian	Jean Smith – 586-8409
Junior Club Leader	Thora Trumbo – 582-4297	Historian	Mary Lou Omstead
Asst. Jr. Club Leader	(to be filled)	Door Prizes/Speaker Gifts	Pat Lambert – 582-6028
2015 Show Chairperson	(to be filled)	Sunshine	Pat Harmon - 586-9621
Rockhound Legis. Advocate	(to be filled)	Refreshments	Mary Lou Omstead – 783-2798

Minutes – Board meeting – October 21, 2014

Present: (Board Members) Marty Casto, Larry Hulstrom, Yvonne Legare, Bert Kaé-Je, Yvonne Legare, Carol Devine. (Quorum present.)

(Members) Chris and Jerry Sorensen, Evelyn and Dom Cataldo, Pat Lambert, Mary Lou Omstead.



Marty Casto,
Vice-President

Club Vice-President Marty Casto called the meeting to order at 6:30 p.m.

Business

- **Club election** – incoming Board Members Evelyn Cataldo, Chris Sorensen, and Wayne Larson were welcomed. Two year term of office begins November 1, 2014.
- **Treasurer’s report** – Bert Kaé-Je provided the report, which is not published per historic Club policy.
- **2014 Christmas potluck party** – December 13, 2014, 12:00 noon, Caldwell Banker Building. A flier will be mailed in late November or early December.
- **Meeting programs** – The December club meeting is replaced by the 2014 Christmas party. The January club meeting will be Rock Bingo. February or March, and May program ideas were shared with Kathryn Larson.
- **Club officers and committee chairs** – Evelyn Cataldo has contacted each of the Board appointed Club committee chairs. Pat Lambert has served as Memberships chair 7 years. Mary Lou Omstead has served as Refreshments chair for many years. They both wish to vacate these roles as soon as replacements are found. Pat Lambert agreed to serve as Doorprizes/Speaker Gifts. A new position of Asst. Bulletin Editor will be offered to support printing and mailing the Geode. Wagonmasters are needed to propose and coordinate individual Club field trips in 2015. The November Geode will include a list of currently available Club positions.
- **Welcome committee** – Evelyn Cataldo recommends that at each Club meeting, a Club officer and a Club member of their choice serve as a welcome committee for visitors and new members. Members present were invited to support this concept by signing up for a month in the coming year.
- **Condolences** – The Board of Directors is saddened to learn of the passing of Club member Michael Furner, and express their sincere condolences to his family. **Motion passed:** Bert Kaé-Je is authorized to donate \$50 honoring Michael Furner to the AFMS Scholarship Fund.
- **Tri-City Visitors Bureau** – The annual membership fee for the Club’s partnership with the Visitors Bureau is due. Advantages in terms of publicity and community visibility were discussed. **Motion passed:** Bert Kaé-Je is authorized to pay the 2015 membership fee in the Tri-Cities Visitor and Convention Bureau.
- **ALAA** – The annual membership fee for the Club’s participation in ALAA is due. **Motion passed:** Bert Kaé-Je is authorized to pay the 2015 membership fee in ALAA.
- **2015 Annual Show** – Larry Hulstrom will contact Judi Allison regarding dealer contracts. Availability of dealers from the 2014 Annual Show will be confirmed before dealer openings are announced.
- **Library** – The Board is glad to see member use of Club library holdings increasing. Good work, Jean Smith!

Next Meetings

- **Club meeting:** Nov 5th, 6:30 social, 7:00 pm meeting. Program: “Rocking With the Stars.” Annual Show & Tell Awards.
- **Board meeting:** Nov 17th, 6:30 pm. Members welcome and invited.

The meeting adjourned at about 8:30 pm.

Carol Devine, Acting Secretary

LGMC Board of Directors - November 2014 (incoming officers highlighted in blue)			
Officers E-mail: lakesidegemandmineralclub@yahoo.com			
President	Evelyn Cataldo – 628-0170	Director	Wayne Larson – 586-1203
Vice President	Chris Sorensen – 392-1363	Director*	Yvonne Legare – 585-5514
Secretary	(to be filled)	Federation Representative	Larry Hulstrom – 783-6210
Treasurer	Bert Kae-Jé – 582-3766	Junior Club Leader	Thora Trumbo – 582-4297
Past President	Marty Casto – 628-3509	Bulletin Editor	Carol Devine – 967-0589
Phone numbers are all Area Code 509. By-Laws specify two year elected terms of office for Board Members, beginning in November. President, Vice President and one Director begin in even numbered years. Secretary, Treasurer and one Director (*) begin in odd numbered years. Federation Representative, Junior Club Leader, Bulletin Editor and Committee Chairs are Board-approved volunteers. By-Laws at www.lakesidegemandmineralclub.com			



What have you been missing? Yahoo! Mail Group

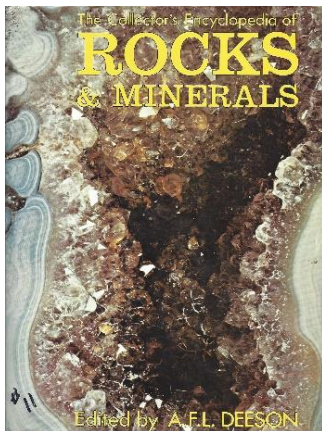
Jerry Sorensen and Max Hatfield are hosting a Yahoo! Mail Group that shares club and organization newsletters, as well as notices of field trips and estate sales. With this group, you can control your own subscription, specifying the types of communications you want to receive. The Mail Group also serves as a blog, where you can share your thoughts, opinions, and discoveries with the other members of the group.

To join the group, go to
<https://groups.yahoo.com/neo/groups/LSGMC>
After joining, send your messages to the group using
lsgmc@yahoogroups.com

FACETING MACHINE

I am selling a Sapphire faceting machine with 3 laps and a book of diagrams and instructions. This would be a great unit for cutting intarsia stones, too.
Price: \$50

Contact: Jerry Johnson at (509) 783-8806



Library Feature of the Month

The Collector's Encyclopedia of Rocks & Minerals

A.F.L. Deeson, ed. 1973. Clarkson N. Potter, Inc., publisher.

The first comprehensive encyclopedia of 2,000 of the world's rocks and minerals compiled specifically for the collector. A thousand color photos. Definitions and explanations of terms used make information accessible to beginners, while completeness and authority make it an essential reference for the student and the advanced collector. Fully cross-referenced to cover alternative names.

Check it out! Call the Club Librarian, **Jean Smith**, at (509) 586-8409. Ask that she bring the book or item you want to borrow to the next Club meeting. The list of library holdings is posted on the Club website. Members can borrow library resources for one month, with a

limit of 2 items borrowed at a time per member. Effective August 2014, a list of overdue books and their borrowers will be published in the Geode by authorization of the Board. A late fee of \$2/month is assessed. Checking out an item from the Club Library is a great way to preview it before buying your own copy.

Your personal invitation! Share your adventures, thoughts, and expertise with your friends in LGMC by writing and contributing an original, brief article, a more detailed technical article, or a series of articles for publication in the Geode. Articles written by teams of Club members are welcome. Please include non-copyrighted photos. *Carol Devine, Bulletin Editor*





2015 Membership Renewal Form

Lakeside Gem and Mineral Club

Membership Year: January 1 – December 31, 2015
 Membership Renewal Deadline: Dec 31, 2014

- Family - \$25.00 (List members of your immediate family to be covered by the family membership)
 Individual - \$20.00
 Junior Member only (not a part of a family membership) - \$5.00

Please mail checks payable to "Lakeside Gem and Mineral Club." Deliver at a Club meeting, or mail to Lakeside Gem & Mineral Club, Attn: Memberships, PO Box 6652, Kennewick, WA 99336-0603

Adult Member(s) _____

Age _____ Birth Month _____

Junior Club Member(s) _____

(ages 6 – 16) Age _____ Birth Month _____

Age _____ Birth Month _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ E-mail: _____

Club Bulletin: I would like to receive the Geode by (choose one): mail E-mail

May we list your contact information:

- on our local membership list, available to LGMC members only? yes no
- in the NW Federation Directory, available to Federation members? yes no

If you want your phone & E-mail, but not your home address, to be listed in the local membership list, check here:

Programs, demonstrations, workshops:

- I would like to see a meeting program(s) on _____
- Suggested guest presenter at a future Club meeting (preferably with contact info.): _____
- I/we could provide a demonstration, workshop or meeting program on _____

Circle the MEMBER TEAM(s) for which your interests and skills are best suited

Rock Bingo prize donations	Geode bulletins	Member exhibit case development advisors	Rock, mineral, fossil and gemstone identification
Mystery rock bag production	Presentations to youth in schools and local clubs	Fall potluck/auction	Event photography
Christmas Party	Member recruitment and retention	New member welcome packet	Event publicity
Benton Co. Fair Club exhibit		Club fieldtrips	Officer nominating committee
Earth Day exhibits	Annual Show worker potluck		Junior Club fieldtrips
Annual Show dealer selection		Cabbing lab equipment maintenance	Meeting programs & workshops
Club exhibit case & storage project			

On which Annual Show committee would you prefer to serve? _____

Circle the LEADERSHIP ROLE(s) for which you would like to be considered

President	Treasurer	Junior Club Leader	Door Prizes & Gifts	Annual Show Co-Chairperson
Vice-President	Secretary	Asst. Junior Club Leader	Refreshments	Benton Co. Fair Display Cases Coordinator
Director	Bulletin Editor	Field trip Wagon Master	Club Historian	
Membership	Website Manager	Meeting Programs	Librarian	
Federation Representative	Rockhound Legislative Advocate		Benton Co. Fair Booth Volunteer Coordinator	

THE GEODE

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LAKESIDE GEM & MINERAL CLUB, INC.

PO Box 6652

Kennewick, WA 99336-0603



Next Club Meeting: Nov 5th, 6:30 social, 7:00 pm meeting

- **Program:** "Rocking with the Stars." Annual Show & Tell Event.
- **Bragging table theme:** Thanksgiving pumpkin rocks

Features this issue:

- Regional events - late October through December
- Club election results; available leadership roles for Members
- Feature article: ***Gem Identification***, by Jerry Johnson, Gemologist
- Library feature of the month: ***The Collector's Encyclopedia of Rocks & Minerals***



Club Affiliations:

American Federation of Mineralogical Societies (AFMS)

Northwest Federation of Mineralogical Societies (NFMS)

American Lands Access Association (ALAA)

<http://www.amfed.org>

<http://www.amfed.org/nfms>

<http://www.amlands.org>

Member: Tri-Cities Visitor and Convention Bureau