

STAUROLITE



NEWSLETTER

October 2016



BOARD MEMBERS

President – Jessica Pearson

Vice President – Tim Summers

Treasurer – Janet Lunn

Recording Secretary – Andy Petty

Corresponding Secretary – Kim Christensen

Federation Director – Jessica Pearson

Shop Chair — Bill Bessette, Penny Palmer, Rick Palmer, & Calvin Shipley

Fieldtrips—JJ Day

Membership — Mary Hedden

Facebook — Nancy Ann Roeder, JJ Day, Tory

Website — Penny Palmer

Meetup — Andy Petty

PURPOSE OF OBMS

- To inspire the appreciation of rocks, minerals, and awareness in all earth science through educational programs, field trips, and the collecting, cutting, & polishing of gem stones.
- Advocate the power of discovery in nature.
- Provide a place where members can come together to share their experiences & skills.

CORRECT CONTACT INFO

Please make sure we have your correct contact information, including e-mail address. We send club news through your e-mail for timely communications and no cost publishing.

MEMBERSHIP FEES

Everyone's membership is renewed in January except new members who just joined between October and December. It is easier to track.

To JOIN: ONE TIME INITIATION FEE \$10 + MEMBERSHIP FEE

Yearly Fee: Adult \$20, Junior (under 12) \$10, Couples \$35, Family – 3 or more \$40.

Send check to OBMS, P.O. Box 285, San Bernardino, CA 92402

MONTHLY CLUB MEETING & BBQ SATURDAY, OCTOBER 8.

The club meeting will be at 11:30 a. m. and the BBQ will follow. Please bring a side dish to share.

SHOP HOURS

Monday nights 4 — 8 p.m.

Tuesday nights 4 — 8 p.m.

Saturday 10 a.m.—3 p.m.

2nd & 4th Sunday 10 a.m.—2 p.m.

BIRTHDAYS THIS MONTH

Valerie Martinell Rudy Herbert Theresa Dean
Philip Johnson Ann Teuscher Bennie Wang
Marcella Montana Ollie Bryant Joann Burdett
Luis De Los Santos Floyd Groves Shawn Hansen
Robert Keck Carolyn Molina Giao Nguyen
Richard Palmer Bobby Ross Sandra Rubio
Ann Platzer

CLUB ACTIVITIES

Sunday, Oct. 2—Oceanview Tourmaline Mine
Be at workshop by 8:15 a.m.
Cost \$75 cash. Must sign up ahead.

Saturday, Oct. 8—Meeting/BBQ—11:30 a.m.
Andy to speak about Lapis

Sunday, Oct. 31—Gold Hunting Fieldtrip
Location TBD

TBD—Workshop Clean Up Days

WORKSHOP OPEN 2ND AND 4TH SUNDAYS

Andy opens the workshop on the second and fourth Sundays from 10 a.m. to 2 p.m.



MESSAGE FROM THE PRESIDENT

• JESSICA PEARSON

Welcome to all the new members in recent months! There is a lot to learn and enjoy in this lapidary hobby. Make sure you ask members for help. That is what the club is all about—sharing enthusiasm and knowledge to help one another.

We all want to say “Thank You” to Bill, Don, Jim, Al, and other members for sorting rocks. We want to “Thank You” to Joe for leading and sharing his Carlsbad rock location.

Helpful Hound this month is Tien. He has been willing to speak at our meetings and share his expertise about rocks. He has given generous donations and shared his enthusiasm for our club. Thanks, Tien.

Our tailgate will be in December on Friday, December 9 and Saturday, December 10. We will be having “show workshop” times over the next few months.

It is starting to cool, so it is time to start cleaning the workshop. Please be willing to help. We have a lot of rocks to sort and areas to clean.

This month’s BBQ will be a Harvest Festival. We will have Burgers and Chicken along with Pumpkin Pie for desert. Bring a side dish and join in the fun.

We are so lucky to have so many people willing to help each other in our club. It is great to see!

OBMS GENERAL/ BOARD MEETING

SEPTEMBER 10, 2016

From Andy /Kim

Meeting called to order by President Jessica.

Highlights of the minutes for the previous meeting were published in the OBMS newsletter for the previous month and distributed via email to members. No corrections were made.

Treasurer’s Report – Janet was unable to attend. She will present report next time.

Shop Report

Fees: Everyone must pay shop fees. We need to generate enough income to pay for the rent, utilities, repairs, and supplies. Our goal is at least \$20 anytime the workshop is open.

Workshop Fee: \$5 Kids age 15 and under: \$3

Slab Saw Cuts: \$1

Safety: Be safe. No insurance for individual. You use your own insurance. Remember we are all novices. You make your own decisions. Ask for help. Wear safety glasses and dust masks.

Saws: Do not use the trim saw to grind sides of stones. Just cut with them.

Saws: Just take one cut and let another person cut.

Oil: Oil will be ordered in December.

Ultrasonic Cleaner: We received a kind donation of an ultrasonic cleaner.

MINUTES CONTINUED

FIELDTRIPS

September 18—Fieldtrip to Carlsbad. Be at the workshop by 6:45 a.m.

October 2—Fieldtrip to Oceanview Tourmaline Mine. Cost is \$75 cash at the gate. New: Be at the workshop by 8:15 a.m.

CLASSES

Wirewrapping—Bill will give classes on Tuesdays. He has the supplies. Class fee: \$15 plus cost of supplies.

Lost Wax Casting— On hold until the oven is fixed

Faceting— Class in progress. Ollie is making her first faceted stone.

DECEMBER TAILGATE SHOW

Time: Our tailgate is being scheduled for Friday, December 9 and Saturday, December 10.

Setup: We will set up on Thursday, but there will be no selling on that date. Rialto City will enforce that.

We will need people with trucks/SUV/cars to help haul stuff to setup Thursday morning.

Take Down: Take down will be Saturday with everyone departed by early Sunday morning. We will check with Rialto on staying until Sunday morning.

We will need people to help haul stuff back to the workshop when we close on Saturday.

Contacting vendors will be done by Jim, Kim, Tim, and Jessica.

Advertisement will be initiated by Jim and Kim. Flyers will be emailed to all members. Please help by passing them out to friends and businesses. Please advertise on social media.

Porta-Potty/Trash: Tim will arrange.

Vendor Prices: \$35 for a small space (2 parking spaces) and \$60 for large space (4 parking spaces).

Show Committee: Beth and Bill to help.

BUDGET

Planning a review of club funds to create a budget for the coming year. The following will help with this effort: Dale, Tim, Jessica, Jim, and Don.

COMMUNITY OUTREACH

We hope to have a booth at Rialto's Rock Run.

We are considering a booth at Farmers' Market.

CFMS SHOW

Will be Southern California next year.

FUNDRAISING—MURDER MYSTERY LUNCH

Jessica is working with Sherry to plan a Murder Mystery Lunch. The location and date is TBD. Sounds like fun.

OBMS SHIRTS

We have a few more shirts to be picked up. Another order will be placed after the October meeting/BBQ, so they can be ready by the December tailgate. Please come to the October meeting if you want to order a shirt, jacket, or baseball cap. Another design by a new member was presented.

RUMMAGE SALE & WORKSHOP CLEAN UP

In October/November when the weather cools we will clean up the workshop and hold a rummage sale for fundraising. Please be ready to help.

DISPLAY CASE

Bill H. refurbished one of our display cases. Thanks, Bill.

NEED ROCK TUMBLED

Alex volunteered to tumble rock.

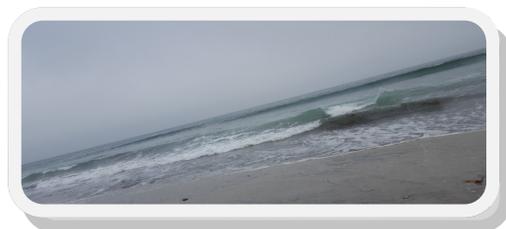
WILDERNESS PASS

We think you may now need a Wilderness Adventure Pass in Cajon Pass.

THANK YOU TO EVELYN

Evelyn invited all club members to a BBQ at her house Labor Day Weekend. Members who attended said it was enjoyable.

**MEETING ADJOURNED. BBQ FOLLOWED.
GOOD FOOD! LOTS OF PEOPLE.**



CARLSBAD FIELDTRIP



DRESS FOR ROCKHOONDING

Here are some tips from members over the years:

1. Wear closed-toed shoes good for hiking.
2. Wear nylon or silk socks underneath good cotton socks. It stops your feet from getting blisters.
3. Wear the new thin T-shirts made from polyester/spandex. It keeps your body cool and dry.
4. Wear long pants so you do not get scratched or easily bitten.
5. Dress in layers. A T-shirt, a long sleeve shirt, and a sweat shirt with a hood. The hood helps if there is wind. Coat if cool.
6. A hat and a bandana. Wrap a wet bandana around your neck to keep you cool.
7. **Sunglasses and eye drops.**



USEFUL TOOLS FOR ROCKHOONDING

1. Safety glasses, ear plugs, and gloves
2. Water—Plenty of water & ice to drink
3. Food—Quick energy food: trail mix/bars, fruit. Long lasting—protein/fat: tuna, cheese Cooling: Frozen grapes.
4. Backpack— to carry tools and rocks
5. Geological hammer - it has a flat and a pointed end
6. Spray Bottle—to wet rocks to see the minerals better
7. Chisel/wedge—to separate rocks
8. Brush—to sweep away soil
9. Blow hammer—to break up large boulders
10. Shovel—to remove dirt
11. Paper, bags, egg cartons—to wrap specimens in



SHOP NEWS

COMMITTEE: **BILL BESSETTE, PENNY PALMER, RICK PALMER, CALVIN SHIPLEY**

Opening: Bill H., Jim, Jessica are opening on Saturdays. Andy is opening on Monday nights. Bill is opening Tuesday nights. Andy is opening on 2nd and 4th Sundays. Jessica is opening as needed.

WORKSHOP HOURS:

Open Monday and Tuesday 4—8 p.m.
Saturday 10 a.m.— 3 p.m.
2nd & 4th Sunday 10 a.m. — 2 p.m.

ROCKS— If you have rocks in the workshop, please remove them or put them in your locker. Any rocks laying around will be assumed to the workshops when we start cleaning up the workshop.

Most of the rocks in the workshop are for selling at the tailgate and to sell to members at our meetings. We have set aside some slabs for new members to use near the wax pots. Please do not “high grade” or pick out rocks from the rocks around the workshop. We need the rocks to make money for our rent, maintenance and supplies.

HELPING IN THE SHOP

We are all **working together** to keep the shop working well. **Leave a note** at the check-in counter about a machine **if something needs service** that you don’t know how to do. If you know how to do it, then do it.

Grinding Machines and Polishing Machines:

Wipe up after you use the area. Mop up the water off the floor.

Casting Oven: Dale is working on the oven. Thanks, Dale!

Saws: Bill B., Calvin, Dale, Mike, Penny, Rick, Bill H. and Stephen are helping with the saws. Thanks everyone!

Soldering Station: Kim, Gia, Andy, Bill, and Dale are helping with the soldering station. A redesign is being planned (slowly).

Everyone can help keep the shop clean. Put things back. Refill supplies. Clean off counters. Empty the trash.

“HELPFUL HOUND” AWARD

This award recognizes extra work around the workshop. People who give their time to clean up, fix items, and share their knowledge to help the club. We want to thank everyone who helps keep the shop going.

Each month one person will receive a slab or rock from the club, a free saw cut, and be entered into an end of the year drawing for a special prize.

Jan—Mike	Feb—Catherine
Mar— Kim	April—Ken
May— Bill B.	June— Dale
July—George & Pam	Aug —Stephen
Sep— Tien	Oct—Bill H.
Nov—Jim W.	Dec—Arvid



Kim – Newsletter: Keep your e-mail address up-to-date at kimrocks2@sbcglobal.net

Mary—Membership Database—Keep your contact information up-to-date at the shop.

Nancy & JJ & Tory – Facebook: Orange Belt Mineralogical Society page and check it out.

Penny—OBMS Website—Check out <http://obmsrocks.yolasite.com>

Andy—Meetup.com—OBMS Rockhound Group.

LEARNING NEW SKILLS

Periodically classes are available in different techniques. A sign up sheet is available at the workshop when classes are scheduled.

In general, members help members learn new techniques.

Cabbing—Almost anyone at the shop can help you with cabbing. You often see Jim, Andy, Bill B., Mary, and Bill H. making cabs. Al can help too.

Slab Cutting—Almost anyone at the shop can help you slab rocks. You often see Jim, Tien, Penny, Nancy, Bill H., and the Bill B. cutting rock.

Wirewrapping—Jessica, Pam, Bill H., and Mary are ready to help you learn to wirewrap.

Beading - Jessica and Sherry can help with beading.

Silversmithing—Arvid is often at the shop and willing to help people learn. Kim is around on Saturday afternoons to help people learn to silversmith. George can help on Monday nights. Andy, Mary, Jim, Hahn, Gia, Bill are others who can help.

Lost Wax Casting—Dale and Kim can help you learn to cast.

Carving—Tony and Penny are good sources to help you learn to carve.

Sphere Making—Bill B. and Penny can help you learn to make spheres.

Chain Maille—Sherry can help you with chain maille projects.

Faceting—Kim can help you learn to facet.

Tumbling—Alex can help you learn to tumble.

Identifying Rocks—Tien, Jim, Al, Bill can help.

If you need help with using equipment, cabbing a stone, or making jewelry, ask around at the workshop. The club is there to support and encourage each other. Remember: be careful and safe. If equipment needs service, do it if you know how or leave a note.

If you want to be added to this list to help others, let Kim know — at kimrocks2@sbcglobal.net.

WIREWRAP CLASS

Bill will show people how to wirewrap on Tuesdays. He has cabs as well as wire. Jessica is showing people how to wire wrap in classes and by appointment. You can talk with Pam and Mary too.



SOME UPCOMING SHOWS

You can find show listings for all over the USA and Canada at <http://The-Vug.com>. Click on Mineral Shows on the right side.

You can find show listings at [//www.rockngem.com](http://www.rockngem.com) site and the magazine too.

SEP. 28—OCT.2: YUCCA VALLEY, CA

Hi-Desert Rockhounds
Sportsman's Club Joshua Tree
6225 Sunburst St.

OCTOBER 8—9: TRONA, CA

Searles Lake Gem & Mineral Society
SLBM Show Building
13337 Main St

OCTOBER 9: FALLBROOK, CA

Fallbrook Gem & Mineral Society
Fallbrook Gem & Mineral Building
123 West Alvarado Street

OCTOBER 15: WEST HILLS, CA

Woodland Hills Rock Chippers
First United Methodist Church
22700 Sherman Way

OCTOBER 15 - 16: WHITTIER, CA

Whittier Gem & Mineral Society
Whittier Community Center
7630 Washington Avenue

NOVEMBER 5 - 6: ANAHEIM, CA

American Opal Society
Business Expo Center
1960 S. Anaheim Way

NOVEMBER 5 - 6: RIDGECREST, CA

Indian Wells Gem & Mineral Society
Desert Empire Fairgrounds
520 South Richmond Road

ROCK EDUCATION

TEMPERATURE INFLUENCES METAMORPHISM

The rate at which the temperature within the Earth increases with depth is known as a geothermal gradient. ($^{\circ}\text{C}/\text{km}$). The measured geothermal gradients vary from $10^{\circ}\text{C}/\text{km}$ (in a subduction zone where cold lithospheric plate sinks into the mantle) to to $40^{\circ}\text{C}/\text{km}$ (where rising magma carries heat upward).

Elevated temperatures cause metamorphism. Metamorphic reactions occur because all minerals are stable only within certain ranges of temperature and pressure. If temperature or pressure rises above the level at which a mineral is stable, it decomposes and its components recombine to form a new mineral that is stable at the new condition.

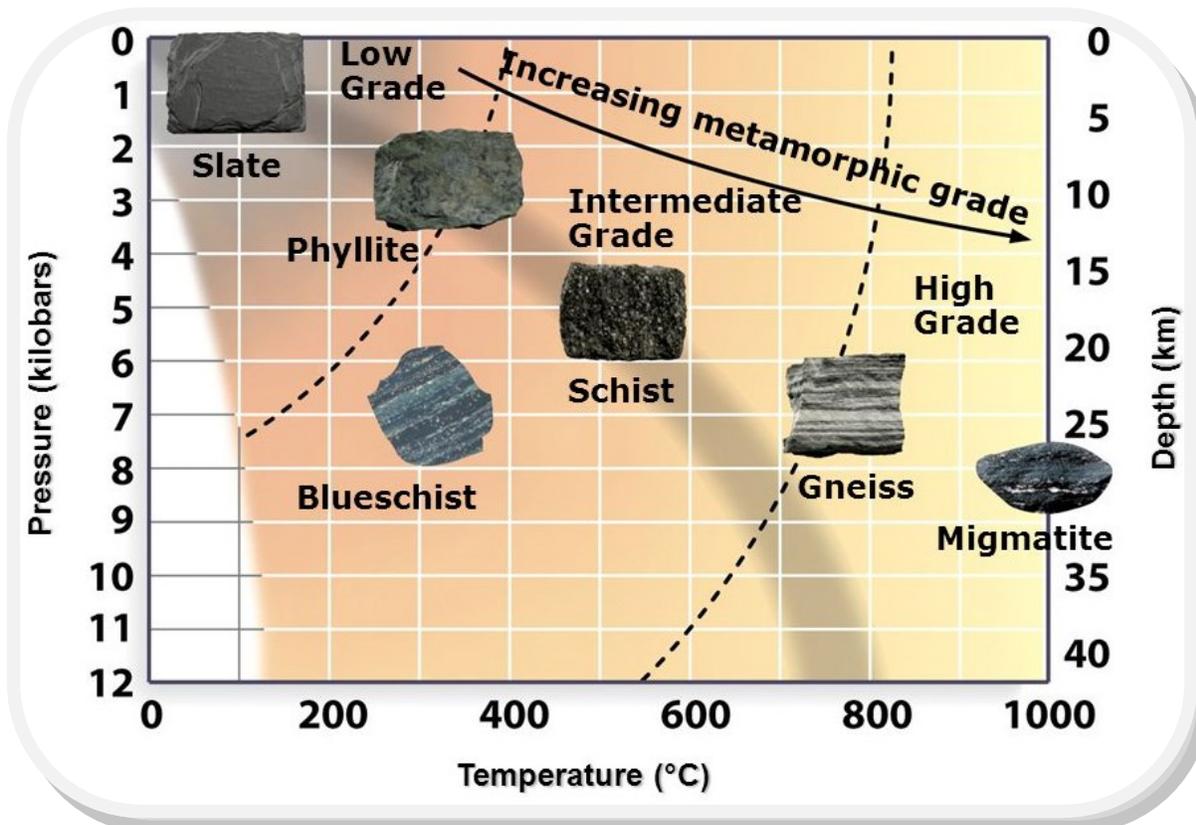
Consider a layer of clay deposited in a sedimentary basin. The clay is buried as more sediments accumulate. When several kilometers of sediment is piled up, the increasing temperature and pressure will cause the clay minerals to decompose. The chemical components will recombine to form new minerals that are stable at higher temperature and pressure. Clays are stable only at low temperature and pressure.

Metamorphic changes occur slowly at low temperature but much faster at high temperature. Clay minerals in 20-million-year-old mudstone and shale deposited in the Mississippi River delta begin to show distinct mineralogical changes at temperatures as low as 50°C —a cup of coffee. For rocks of the crust and mantle, the upper temperature limits of metamorphic conditions generally ranges from 600 to 1200°C . If the rock is heated to melting point and magma forms, the magma creates new igneous rocks when it cools. Metamorphism refers only to the changes that occur without melting.

PRESSURE INFLUENCES METAMORPHISM

Chemical reactions are sensitive to pressure. If atoms in a crystal are squeezed together very tightly, the bonds between the atoms can break. The atoms reorganize to form a new mineral that is stable under the new pressure conditions. Most minerals are less sensitive to changes in pressure than to temperature variations.

Modern Physical Geology, Thompson/Turk





SILVER—NOW AROUND \$19 -\$20



GETTING STARTED SILVERSMITHING —WHAT TO BUY TO MAKE PENDANTS

The item numbers are from **Riogrande.com**, but there are other places you can buy silver. Locally you can go to Katherine's Beads in Grand Terrace. **The prices below are an estimate at silver being \$27-\$28/oz.**

Metal thickness is measured by gauge. The smaller the number, the thicker the metal. This means a 24 ga sheet is thicker than a 26 ga. sheet.

Backplate—buy 24 ga. or thicker
Sterling Silver Sheet \$30.00
6" x 1.5", 24 ga
- Can make 4 of the 30x22 mm cabs.

Bezel—buy either plain or gallery wire.
Sterling Silver is less prone to melting than fine silver, but fine silver will bend easier.

103269—Gallery Wire SS Style B \$9.50
1 foot

104030—Fine Silver Bezel \$7.50
1 foot, 26 ga, 3/16"

100293—Sterling Silver Strip \$11.50
1 foot, 24 ga., 1/4"

Decoration/bail/open back
100320 Square Wire SS 3.50
2 feet, 20 ga.
(open back, twist for bail)

100316 Round Wire SS \$8.50
2 feet, 16 ga.
(open back, bail,
twist for decoration, 2.6 mm high)

Solder
101100 Silver Wire Solder, Easy \$1.60
101703 Silver Wire Solder, Med \$1.63 x2
101704 Silver Wire Solder, Hard \$1.65

Flux
504086 Handy Flux Paste \$10.75



OBMS—SEPTEMBER 2016

MEMBERS ENJOYING FRIENDS AND HOBBY



ROCKHOONDING—BRING A FRIEND

Safety First. Please take a friend with you when you are rockhounding. Never go alone.

Your car can get stuck—it happened. You can fall off a cliff—it happened. A rock can hit your eye—it happened—use goggles if you are hammering. You can smash your finger—it happened. Wear pants—snakes are out—it happened.

Rocking is safe, but you have to do things safely.

ROCKHOUND WEBSITES

(Use these sites at your own risk.)

[//OBMSROCKS.YOLASITE.COM](http://OBMSROCKS.YOLASITE.COM)

Our club website.

[//WWW.FACEBOOK.COM/](http://WWW.FACEBOOK.COM/)

Our group is “Orange Belt Mineralogical Society”

[//GROUPS.YAHOO.COM/GROUP/LA-ROCKS/](http://GROUPS.YAHOO.COM/GROUP/LA-ROCKS/)

Full of rock enthusiasts and postings of rock hunting events.

[//WWW.CFMSINC.ORG](http://WWW.CFMSINC.ORG)

Our club is a member of CFMS. There are lots of rock hunts scheduled.

[//WWW.EBAY.COM](http://WWW.EBAY.COM)

Search rough rocks or rock slabs

[//WWW.HIGHDESERTLAPIDARY.COM](http://WWW.HIGHDESERTLAPIDARY.COM)

Wide variety of slabs with good pictures. (Almost like being at Quartzsite.) Good for learning the names of the rocks

[//WWW.FACEBOOK.COM/](http://WWW.FACEBOOK.COM/)

“Lapidary swap shop” is a group for posting items to trade equipment, tools, rocks with other enthusiasts.

[//WWW.SCHOOLGEMOLOGY.COM/ISGTURQUOISEBUYERSGUIDE/INDEX.HTML](http://WWW.SCHOOLGEMOLOGY.COM/ISGTURQUOISEBUYERSGUIDE/INDEX.HTML)

Bob suggested this site. It discusses buying the real from the fake turquoise.

Jewelry Making Supplies:

☺☺ LOCAL ☺☺: KATHERINE’S BEADS

12210 Michigan St. #G,
Grand Terrace.—Exit Barton Rd,
Go East, First Right turn is Michigan.
Sells silver sheet and silver wire. Mainly a bead-
ing shop. Teaches jewelry making.
(909) 825-5885

[//WWW.RIOGRANDE.COM](http://WWW.RIOGRANDE.COM)

Albuquerque, NM -A huge jewelry supply store.
Shows the silver spot market price on its front
page. Free online-videos—click on Learn with
Rio. (800) 545-6566

[//WWW.IJSINC.COM/](http://WWW.IJSINC.COM/)

Albuquerque, NM –Indian Jewelry
Supply Company—A complete jewelry supply
store. Carries stamps and dies for making Indian
jewelry. (800) 545-6540

[//OTTOFREI.COM](http://OTTOFREI.COM)

Oakland, CA—A complete jewelry
supply store. Often 5% coupon in
Art Jewelry and Lapidary Journal
magazine. (800) 772-3456

LAPIDARY EQUIPMENT & SUPPLIES:

[//COVINGTON-ENGINEERING.COM](http://COVINGTON-ENGINEERING.COM)

☺☺ LOCAL ☺☺

715 WEST COLTON AVE

Redlands, CA—Manufacturer of lap-
idary equipment and some sup-
plies/books. (877) 793-6636

[//WWW.DIAMONDPACIFIC.COM/](http://WWW.DIAMONDPACIFIC.COM/)

2620 W. Main Str.
Barstow, CA—Manufacturer of
lapidary equipment and some
supplies/books. (800)253-2954

[//WWW.JBFC.COM/](http://WWW.JBFC.COM/) JOHNSON BROTHERS

1452 N. Batavia St. **New Location**
Orange, CA—A variety of lapidary
and some jewelry making tools.
(714) 771-7007

[//KINGSLEYNORTH.COM](http://KINGSLEYNORTH.COM)

Norway, MI –A variety of lapidary
equipment, tools, supplies, books
(800) 338-9280

MAGAZINES:

[//WWW.JEWELRYMAKINGDAILY.COM](http://WWW.JEWELRYMAKINGDAILY.COM) (LAPIDARY JOURNAL/JEWELRY ARTIST)

Login for free to get access to online
videos and projects.

[//WWW.ROCKNGEM.COM](http://WWW.ROCKNGEM.COM)

Show date listings.

ROCK SUPPLIES:

NEWERAGEMS.COM

Grass Valley, CA—Recommended in
faceting booklet. Has capping and
faceting rough. (800) 752-2057

THOMPSON’S SUPPLIES

Rocks for sale. West on 10. South
on Cherry about 4 blocks. From
Rudy, Jim, and Al.

EARTH’S TREASURES

582 Alder Rd
Crestline, CA 92407
(909) 338-2010

SHOP USE AND MAINTENANCE

Proper use of equipment: Help reduce the number of repairs by using the equipment carefully.

Trim Saws

- Trim saws are used for preforming or trimming cabs from slabs. There are three trim saws: blue, red, and Rock Rascal.
- The blue trim saw has the thickest blade. This saw is the saw that should be used most of the time. Use this saw if you are trimming obsidian, agate, or harder material.
- The red saw is a lighter duty saw. It is used for cutting smaller pieces and trimming corners. It can be used to trim lighter material like howlite.
- The Rock Rascal is for specialty cutting only. It has a delicate, expensive thin blade used to trim more expensive, soft stones like turquoise and opal.

Trim Saw Usage

- **Make sure there is water in the saw basin.**

Turn the blade on to see water drips off the blade in a light stream before cutting on a rock. This keeps the rock cool and cleans the rock bits off the blade.
- **Push lightly.**

Do not push hard against the blade. If the blade slows down or stops, you are pushing too hard. You can also listen to the cut. It should be a light sound.

Let the blade cut the rock slowly, so the diamond bits do not chip off the blade. This helps make the blade last longer.
- **When done:**

Throw the larger bits away in a scrap bucket or trash. Rinse the tray top with water and dry it clean. Replace the water if the water is cloudy.
- **Closing at the End of the Shop Day**

At the end of the day, drain the saw basin and dry the saw top. This is so the blades do not rust and last longer.

Large Slab Saws

- The large slab saws are used for cutting rock slabs from boulders less than 2/3 the blade height.
- **Use scraps of wood wedges to make good contact.**

Carefully place shims around the rock so the vise – shims are touching many areas of the rock. Rocks need at least three good contact points.
- **Tighten the vise. Then, pull on the rock vigorously.**

Make sure the vise is tight and the rock can not move. When a rock slips, it can destroy—bend—a blade. Large saw blades are very expensive to replace. To be safe, **tighten the vise again by hand.**
- **Check the blade will not saw into the vise.**

Place the rock so the rock sticks out from the vise. Four turns of the vise knob is about ¼ inch. Make sure the rock sticks out from the end of the vise for the number of slabs you want to cut. **Recheck this every time you start a new cut.**
- **Pull the rock back away from the blade.**

Do not start the blade on the rock; pull the vise carriage back so the rock is away from the blade before starting the blade.
- **Turn the blade by hand before starting.**

Make sure the blade has no contact with the rock before starting.
- **Check there is enough oil.**

Oil should be dripping off the blade when you turn it. Otherwise, you need to add oil.
- **Stay with the saw while it is cutting.**

The blade and vise can be damaged if the saw jams after the slab has fallen.
- **When done, throw away the rock bits and wipe off the trays.**
- **Please do not change the belt speed.**

ROCK CLEAN UP PROCESS

1. **Use the kitty litter box.** There is a box with kitty litter. Put the rock in the box and pour kitty litter over the rock to absorb the oil. Brush the kitty litter off the rock.
2. **Use the Simple Green bucket.** There is a bucket with Simple Green to help remove the oil. Dunk the rock in the bucket and use a brush to help remove the oil in crevices.
3. **Use the rinse bucket.** There is a water bucket with water in it. After steps 1 & 2, dunk the rock in the water bucket for final cleaning.

Do not put a rock in the sink to clean it. The sink drain was damaged—torn—by rocks sliding against it.

GRINDERS

- **Turn main water valves on/off.**
 - There is a main water valve near the first grinder by the sink. There is another valve about every two grinders. These valves gets turned on/off depending on which set of grinders are in use to save water.
 - Each grinder has its own water valve on top of the grinder which controls the water flow to the grinder's belt.
- **Keep a light stream of water on the belt.**
 - Turn water on so there is a light stream of water on the belt before grinding a rock. - The belt should look wet as you grind.
 - This keeps the rock cool and cleans the rock bits off the belt.
- **Push lightly.**
 - Do not push hard against the belt. Harder material like agate grinds slower than soft material like turquoise.
 - Use the entire width of the belt so the belt wears evenly. If you only work in the center, a groove can form.
 - Let the belt cut the rock slowly so the diamond bits do not chip off the belt. This helps make the belt last longer.
- **When done**
 - Throw any large bits in the tray away.
 - Flush the tray with water so it is clean.
 - Turn off the valves.

FLAT LAPS

- There are two large flat laps and two changeable top laps.
- One large wheel is for coarse 40-80 grit only. Its base is heavy duty steel and the grit does not scratch the base. There is no grit sign on this wheel.
- The other large wheel is for finer grit of 220 or more. The wheel can be scratched by the coarser grit. Only use fine grit on this wheel. It has a 220 sign on the outside of the box.
- Finer polishing of slab/geode material should be done on one of the other two laps with changeable tops.
- **When done,** wash off the grit and dry the wheel.

POLISHING WHEEL

- **Keep spraying water on the cerium-oxide polishing wheels** while you work. It should be a fine slush, paste to polish properly. Keeping the wheel wet keeps the rock cool and lets the polish flow over the rock.
- Note: Dry polishing is bad on the lungs. Wear a mask if you decide to do that..

CLOSING

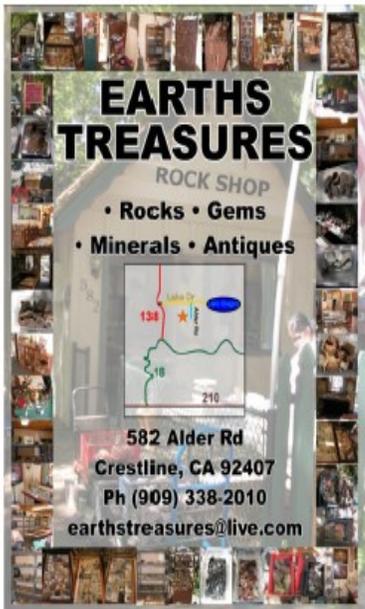
- **Grinders:** Make sure all the water valves are closed.
- **Water Trim Saws:** Trim saws should be drained before closing and the trays rinsed off. The waste water should be poured out in the parking lot trough and the sediment dumped into the dumpster.
- **Tripoli/Rouge Polishing Station:** Wipe the tray out and throw the loose fibers away.
- **Wax pot:** Unplug the wax pots and iron.
- **Soldering Station:** Check the torch is turned off and check the pickle pot is unplugged.
- **Empty the trash**
 - Look around and tidy up.
- **Turn the Main Breakers Switch Off**
 - One:** Breaker on **back slab saw wall**
 - Two:** Breaker on **right side** between trim saws and slab saws.

CLASSIFIED ADS

Advertisement Disclosures

- Orange Belt Mineralogical Society, INC. assumes no responsibility for any of the Classified Ads listed below.
- All advertisers' claims are their own and Orange Belt Mineralogical Society, INC. does not warrant any of the items or companies listed.
- Vendors pay a nominal fee of \$5.00 per issue. Please note there is a one time set-up fee of \$10.00 due prior to the 1st printing.
- OBMS Member are welcome to place classified ads to sell items for free
 - Information needed for classified ad; Item Description, Price, Sellers Name, Phone # &/or Email , Picture (if you have one)

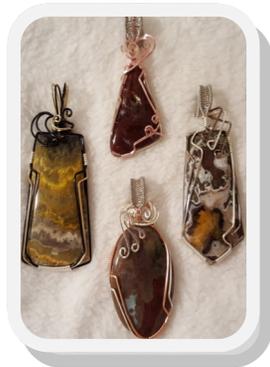
Newsletter articles &/or classified ads are the 20th of the month.



Get your stones
wirewrapped

by

Bill H. at the workshop.



SOME OBMS SUPPORTERS

- Jovis Dinner
123 N. E Street
San Bernardino
- Covington Engineering
715 West Colton Ave,
Redlands
- Katherine's Beads
12210 Michigan St. #G,
Grand Terrace
- Tandy Leather
1375 Camino Real, Unit 150
San Bernardino

SOME TAILGATE VENDORS

- Blue Rabbit Collectibles
- Diamond Pacific Dealer
(760) 447-1331
- Prentiss Campbell
Faceting stones
(760) 912-2711
- Mining Supplies and Rock Shop
www.minningsuppliesandrockshop.com
(760) 244-9642
- The Agate Hunter
(909) 489-4899
- Gems A Plenty.com
- JPK Wrought Jewelry Stones
JPKSTUDIO@gmail.com
- Highland Park Lapidary Dealer
3rock8796@gmail.com

OBMS Workshop

205 West Benedict #8
San Bernardino, CA 92408
PH (909) 381-0089

Workshop Hours

Monday

4 p.m.— 8 p.m.

Tuesday

4 p.m.— 8 p.m.

Saturday

10:00 a.m. – 3:00 p.m.

2nd & 4th Sunday

10 a.m.—2 p.m.

Monthly Club Meeting

The second Saturday of the month around **11:30** at the workshop.

Monthly BBQ or Picnic

The second Saturday of the month following the club meeting. Bring your favorite dish to share and a projects to show.

Sun	Mon	Tues	Wed	Thur	Fri	Sat
Oct 2016	Shop 4-8	Shop 4-8				1 Shop 10- 3
2 Oceanview Tourma- line Mine	3 Shop 4-8	4 Shop 4-8	5	6	7 ☞	8 Shop 10 - 3 Mtg/BBQ Andy on Lapis
9 Shop 10-2	10 Shop 4-8	11	12	13	14	15 Shop 10 - 3
16	17 Shop 4-8	18 Shop 4-8	<i>19</i>	20	21	22 Shop 10 - 3
23 Shop 10-2	24/31 Hal- loween	25 Shop 4-8	26	27	28	29 Shop 10 - 3
Oct. 30 Gold Trip						

Newsletter articles and advertisement are due by the 20th of the month.

Send information for the newsletter to Kim at kimrocks2@sbcglobal.net

Orange Belt Mineralogical Society, Inc.
P.O. Box 285
San Bernardino, CA 92402

