



Meetings are on the
2nd Thursday of the
month 7pm @
Cache County
Fairgrounds Events
Center; 490 S 500
W, Logan UT 84321

Visitors are welcome.

Annual Club Membership

Individual \$15.00

Family \$20.00

Calendar of Events

October Club Meeting:
Thursday October 15th
@ 7pm @ The Events
Center at the Cache
County Events
Fairgrounds.

Club Trip:
October 23rd - 25th
McDermitt, Nevada

All content is by the
editor with the
exception of where it is
denoted otherwise.

From the Top of the Rock Pile

Bret Fannesbeck – Club President

Hey Everyone,

October is upon us. The cold weather soon will change the activities that we have. It is time to do something with all those rocks we have collected. As a club we have some amazing people that are willing to share their talents and help others learn and grow. Reach out to the people in the club and you can find someone to help you learn.

Every year we plan to put out a Club Directory. In order to get that done early in the year we are moving the annual membership renewal to October thru December. In order to be an active member and participate in all the club has to offer we ask that you pay your yearly membership dues. This helps us to do many things for the club that would not be possible otherwise. We are setting a deadline of January 15th to get your renewal for 2021 in if you want to be in the Directory. You can of course renew at any time during the year. The deadline is simply to be in the 2021 Directory.



President Message Continued:

October's meeting is on **October 15th at 7:00 PM** at the Cache County Fairgrounds Event Center. **This is the third Thursday not the second.** It should be a great meeting. Come out and join us.

Also, our November meeting is our annual club auction. If you would like to donate something for this auction feel free to bring it to the meeting this month. Please make sure it is labeled what it is, who it is from, and what it is worth. This will help out the Auctioneer and speed up the auction. The auction is a great meeting to socialize and have some fun. Our field trip this month is another overnigher to McDermitt, Nevada, October 23-25th. Should be a lot of fun. If the weather holds past October we will do some impromptu local trips. Watch the Facebook Group and website for those.

Our annual Rock and Gem Show is coming up. We are looking for individuals who are willing to be on a Show Committee and help to make decisions for the show. There are many responsibilities that go along with putting on a successful show and many hands make light work. It is a fun and rewarding experience to take part in the planning and execution of a large show. We encourage any who are willing, to join this committee. If you are please let me know.

See you all soon,

Bret Fannesbeck
President
Cache Rock and Gem Club

Dave's Trip Committee Update

For our rock trip in October we are taking another long drive, this time to McDermitt Nevada on the 23rd-25th, it is about 5.5 hours there, we will meet in town at the Conoco on Friday at 2:00, if you are camping we will pick you up on the way and go out for a few hours to see what we can find, and spend the day Saturday exploring, there are motels, food, gas and camping in town and the surrounding area, we will have more info at the club meeting, see you there.

Dave Nielson
2nd Vice President
Trip Manager
Cache Rock and Gem Club



First Presidents Message:

Hello everyone! I am writing this just after returning home from the Owyhee trip and want to give a shout out to Rick, Arno and Roger for taking us to a few spots for collecting. Also a special thanks to Roger and Greg for lending me a hand with a flat tire. So glad it happened on that flat gravel road and not the 4x4 mountain climb to those thunder eggs. Fun times, making memories!!

Last month I mentioned an upcoming program on fluorescents but we instead have an opportunity to learn wire wrapping from Craig Stewart. As many of you know, Craig makes some great pieces and we want to take advantage of his generosity this month in sharing his tips and tricks. Plan to attend our next meeting it will be a good one. You are welcome to still bring your florescent rocks and UV lights for a show and tell with other members. I'll be bringing one or two of mine. See you Thursday!

Patrick Carroll
1st Vice President
Cache Rock and Gem Club

Chairman of the Board Message

It is October and we are down to about our last trip for the year. Check out the trip on other pages.

We will be talking about our annual show in the next few meetings and then hopefully we can have our show this year. We already have people signed up for the show and others pending to come to our show. I know that we are starting to get ready for the show, but we also know that all of a sudden it is here and there is still things to do to get ready. If any of you have any suggestions to help make our show better, please let me know. If any of you have any photos that you have taken during our outings this year, make sure that we get a copy of them so we can put them on the big screen at the show to let people know what we do on our outings. You can send them to either myself or Bret. One thing that we need for our club is a photographer who will take photos for us while we are on our outings, so if you want to and enjoy taking photos, let one of us know so we can fill this void.

I hope that everyone is having a good year and keeping safe as we go thru this Covid pandemic. Hope to see all of you soon.

Gary Warren
Rock Show Director
Chairman of the Board
Cache Rock and Gem Club





Junior Members

Message from the Junior Club Manager:

You won't want to miss October's meeting. A special guest 'Gary Allred' will be teaching us about finding garnets. This will be a hands on activity and lots of fun. Please contact me with any questions 435-757-3878. Looking forward to see you there! Maria Gates 435-757-3878, or magates84335@yahoo.com

Maria Gates



Some Fun Mineral Activities

Magnetism

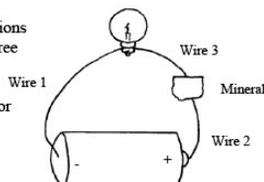
There are a small number of minerals that are magnetic. Magnetite is the most common and is the one that students typically encounter in their mineral lab. (Pyrrhotite is weakly magnetic, but it is very unlikely Pyrrhotite specimens will ever be presented in an Elementary or Middle School class.)

The students test for magnetism by simply touching their mineral specimens with a magnet. If the magnet sticks the mineral is, obviously, magnetic. This is a determinative test: if a mineral is magnetic, then it is magnetite.

Electrical Conductivity

Metallic minerals, that is, minerals that contain metal ions (like galena, pyrite, copper, silver, gold, etc.) will, to one degree or another, conduct electricity. The test for electrical conductivity can be challenging, but it can also be a LOT of fun for your students. You will need the following items to test for electrical conductivity:

- D-cell battery
- Three thin wires
- A small bulb from a flashlight
- Electrical tape
- Mineral specimens

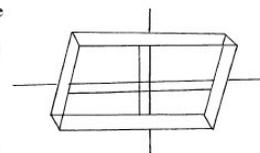


What to do: The students will create a closed circuit in which the energy (electricity) from the battery will run through the wires, through the mineral specimen and through the bulb. If the mineral specimen conducts electricity, it is a *metallic mineral*. The students are to set up the experiment as seen in the drawing above. One end of two wires (wire 1 and wire 3) will be wrapped around the base of the light bulb. The other end of wire 1 will be taped to the bottom (negative) end of the battery. Wire 2 will be taped to the top (positive) end of the battery.

Once this is set up, the student then touches both free ends of Wires 2 and 3 to the mineral specimen (the wires cannot touch each other. If they do, they will complete the circuit and the bulb will light, potentially giving them a false result). Observe the bulb. Does it light up? If the answer is "Yes" then the mineral conducts electricity.

Double Refraction

Clear rhombs of calcite display an optical feature called *double refraction*. When a single ray of light passes through the calcite rhomb, it is broken into TWO rays! To see this in action, your students can place a clear calcite rhomb over a line or words on a page and look through the crystal. They will see TWO lines where there is only one on the paper. This property is typical of clear calcite and will not be seen in any other mineral that they study at this level of learning.



Available in a spectrum of colors and color combinations, Tourmaline lives up to its name, which means "mixed stone." With a rainbow of colors, Tourmaline can easily enhance any jewelry collection. Cranberry red, hot magenta, bubblegum pink, peach and orange, canary yellow, mint, grass and forest green, ocean blue, violet... Tourmaline is all of these and more.

Tourmaline is also known for its ability to display several colors in one gemstone. These bi-color or tri-color gems are formed in many combinations and are highly prized. One multi-color variety is known as Watermelon Tourmaline and features green, pink and white color bands. To resemble its namesake, the gemstone is cut into thin slices with a pink center, white ring and green edge.

Throughout human history, mankind has admired and worshipped pearls. Persian mythology referred to pearls as the "tears of the gods," while ancient Chinese legend claimed the moon held the power to create pearls, instilling them with its celestial glow and mystery.

Pearls are unique because they are the only gemstone formed within a living creature. Since natural pearls are rare and difficult to recover from the ocean's depths, man invented the technique of culturing salt and freshwater pearls from mollusks carefully seeded with irritants similar to those produced by nature. Cultured pearls come in many beautiful colors, ranging from pale cream and white to rose, lilac, green, gold, gray and black. There are four main types of cultured pearls — Akoya, South Sea, Tahitian and Freshwater — each with unique qualities that separates it from the others.

Shed Crew:

Larry Christopherson 435-723-6476
Bret Fannesbeck 435-757-4927
Gary Warren 435-720-1775

Slab saw cost 0.20 per inch of rough

Only trained shed crew are authorized to set up and run the saws.

Cost is ; Adults Jr. members
Wheels \$2.00 \$1.00

400 West 60 South
Hyrum, UT



Rock Buckets

The club has 3 gallon buckets of rough rock for sale. The rough is a varied collection from club trips and includes petrified wood, palm, agate, etc. The cost is \$10.00 to club members. If interested contact one of the club officers.



Shed Rules

- *Three people in the shed to maintain space & social distancing.
- *The shed is open on Wednesday Evenings 5-8pm
- Saturday Mornings 9am-1pm
- *By appointment only!
- *Please contact Larry Christophersen @ (435)723-6476. You may text, but start the text out with CRGC. If Larry does not answer please leave a voicemail and he will get back with you. You can also email Larry at larry-0021@comcast.net

SAW THIS ROCK AND THOUGHT IT WAS A CHEESECAKE



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Bob & Maria Stewart

(435)258-0025

(435)764-5741

Please call for an appointment.

bobhstewart@q.com

mexicanroseagates@gmail.com

We have been assembling a large collection of silicates, mainly agate, jasper and quartz from Mexico for over 10 years. We are now offering our collection for sale online and at various rock and gem shows. Our mission is to find, collect and sell the finest agate, jasper, geodes and other forms of chalcedony, mainly from family-owned property in Mexico, to offer to you at affordable prices.

Craig's Wire Wrappings

Professional quality jewelry wire wrapping. Cabs (all shapes-mineral or fossil), sea glass or tumbled glass, crystals, coins, etc. Tree of Life-open or on stone, necklaces, rings. Gold, rose gold, sterling silver, copper, brass wire. Club member discount. See examples on FB@ Craig's Wire Wrappings. 435-730-5556.



Club Officers

Title	Name	E-Mail
President	Bret Fannesbeck	crgc.president@gmail.com
1 st Vice President	Patrick Carroll	trkcarroll@yahoo.com
2 nd Vice President	Dave Nielsen	dsnielsen@live.com
Secretary	Tasia Palmer	
Treasurer	Anita McCollum	anitamccollum@comcast.net

Board Members

Title	Name	E-mail
Chairman	Gary Warren	rock_hunter1@hotmail.com
Shed Manager	Larry Christophersen	Larry-0021@comcast.net
Trip Manager	Dave Nielsen	dsnielsen@live.com
Jr Club Manager	Maria Gates	
Graphic Design Manager	Kirk Lorrigan	
Rock Show Manager	Gary Warren	rock_hunter1@hotmail.com
Assistant Rock Show Manager	Bret Fannesbeck	crgc.president@gmail.com
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