The main topic of discussion at this time seems to be directed at needing more of our members to get involved with club functions. Especially with our annual Gem and Mineral Show coming up in just a short three months’ time. That really doesn’t give us much room to work with. Wayne McMacken, our Show Chairman, has called a meeting for Thursday evening, March 1st, at 7:00 PM at the clubhouse. He is going to explain what each of the volunteer positions of the show entails so that the participants understand what is involved. The more of us that volunteer for these events, the less work it will be for all of us. In fact, it can be very entertaining, and a lot of memories can be gained from a successful show. Everyone, please attend! Afterwards, we will sit down together and talk about what we can do to better the show next year! We need to also remind you that we are desperately in need of donations of quality items for the silent auction for the Gem and Mineral Show, rocks to put in the sacks we draw for in the drawings during the meetings, and items for our Fall Rock Sale and Yard Sale.

We also need a few more folks to sign up to help in the club meetings. Greeters, kitchen help, cleaning after the meetings, etc. Let’s all take a turn and be an active member in our club. Also, if you would be interested in joining with our Board of Directors, let one of us know your desire to do so. There will be very little campaigning for you.

<table>
<thead>
<tr>
<th>March 2018</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>9-12</td>
<td>Open Shop</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>5 Silversmithing</td>
<td>6 Jr Science</td>
<td>7 12-3 Open Shop</td>
<td>8 Silversmithing</td>
<td>9</td>
<td>109-12</td>
</tr>
<tr>
<td></td>
<td>12-3</td>
<td>Rock Club</td>
<td>6-9 Board Meeting</td>
<td>Program</td>
<td></td>
<td>Open Shop</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4:30 - 6:00</td>
<td></td>
<td>6:30</td>
<td></td>
<td>Chain Making</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adv Lapidary</td>
<td></td>
<td></td>
<td></td>
<td>Filigree 1-4</td>
</tr>
<tr>
<td>11</td>
<td>12</td>
<td>Silversmithing</td>
<td>13 Adv Lapidary</td>
<td>14</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>Spring</td>
<td>Silversmithing</td>
<td>Board Meeting</td>
<td>14 12-3 Open Shop</td>
<td>15 12-3 Silversmithing</td>
<td>24 9-12</td>
<td>Open Shop</td>
</tr>
<tr>
<td>Ahead</td>
<td></td>
<td>6-9</td>
<td></td>
<td></td>
<td></td>
<td>Open Shop</td>
</tr>
<tr>
<td>18</td>
<td>19</td>
<td>Silversmithing</td>
<td>20 Adv Lapidary</td>
<td>21</td>
<td>22</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>12-3</td>
<td>6-9</td>
<td>6-9 Open Shop</td>
<td>6:00</td>
<td>12</td>
<td>Mineral</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dinner</td>
<td></td>
<td>Open Shop</td>
<td>Group</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6:30</td>
<td></td>
<td></td>
<td>6:30</td>
</tr>
<tr>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28 12-3 Open Shop</td>
<td>29</td>
<td>30</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Adv Lapidary</td>
<td>Adv Lapidary</td>
<td></td>
<td></td>
<td></td>
<td>9-12</td>
</tr>
<tr>
<td></td>
<td>6-9</td>
<td>6-9</td>
<td>12-3 Open Shop</td>
<td></td>
<td></td>
<td>Open Shop</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Chain Making</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Filigree 1-4</td>
</tr>
</tbody>
</table>

March 2018 Volume 35 Number 3
Open House
An open house will be held to celebrate
Virdie Savage's 102nd Birthday!
It will be Saturday, March 3, 2018, from 2:00 pm to 4:00 pm
on the main floor of Solstice Senior Living
at Mesa View, 601 Horizon Place, Grand Junction, Colorado 81506.

Grand Valley Gold Prospectors Club
Grand Valley Gold Prospectors Club next meeting is 7 pm March 13, 2018. They meet on the 2nd Tuesday of each month. All are invited to come to the meeting at the Gem and Mineral Clubhouse on Monument Rd. We can discuss how the two clubs can be an asset to encouraging us to promote outdoor activities and coordinate activities each year, like a fishing, prospecting, rock hounding contest, or something like that, just an idea.

Also, Outdoor Heritage Day is coming up, Saturday, April 28, 2018 at Riverbend Park in Palisade, CO. We want both clubs to participate. All activities are free. A variety of exhibits and educational activities will be featured which may include: boating safety, fishing, hunting, wildlife management, bow and firearms safety, gold panning, tying flies and watching wildlife. Bring all the kids for a fun day at the Riverbend Park.

Cookie Program
Agates Close Up
“Agates Close Up”, narrated by John Heusinkveld of the Heart of Wisconsin Gem and Mineral Society, Part II, will be shown. Look through your rock collection and find several samples of your best agates for brag rocks.

“Colorado is not without its unique and colorful agates. Some agates are born from silica-rich waters, which percolated through porous volcanic basalt in the heart of the Colorado mountains as they formed. Cavities or “air bubbles” and cracks in the basalt allowed space for the silica water to form chalcedony and banded agate in seams and nodules. As this volcanic rock was later weathered by exposure to water and ice, the hard agates are released and accumulate on the surface, with new ones washing out with heavy rains and snow melts. One such agate is noted for its wonderful neon purplish-blue color, which is quite rare in agate. The blue has almost a fluorescent tone to it. I have named it Columbine Agate, due to the resemblance in color to the petals of the state flower, the blue columbine. Not all of the agate is blue, in fact only a very small portion. Most is ordinary shades of gray and white.”

http://www.buenavistagemworks.com/blueagate/blueagate.htm

“Near the border of Archuleta County in Colorado, Wolf Creek Pass and Treasure Mountain contain a deposit of silicates and zeolites that have made their way into mineral collections around the world. The collecting area, spread out over the rocky mountainside, is often referred to as Wolf Creek Pass. However, Wolf Creek Pass is actually a 10,000-foot mountain pass that wraps around Treasure Mountain and follows the Wolf Creek. The mountain does not bear gold or jewels, but the volcanic basalt deposits are near a very photogenic waterfall, Treasure Falls. Surrounded by scenic views, this basalt deposit is one of the most thrilling areas of Colorado.”

2018 Field Trips

Field Trips will be posted on Meetup.com for the most current information. If anyone wants to do an impromptu trip let me know and I can advertise it there also. The first field trip for 2018 will be to Yellow Cat. Thanks, Wayne Sims, 314-2970

<table>
<thead>
<tr>
<th>Date</th>
<th>Destination</th>
<th>Instructions</th>
<th>Leader</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 10, 17</td>
<td>House to House field trip</td>
<td>Volunteer Your House!</td>
<td>Wayne Sims</td>
</tr>
<tr>
<td>March 24</td>
<td>Yellow Cat, UT</td>
<td></td>
<td>Wayne Sims</td>
</tr>
<tr>
<td>April 7</td>
<td>Floy Wash, UT</td>
<td></td>
<td>Wayne Sims</td>
</tr>
<tr>
<td>April 14</td>
<td>Gold Club</td>
<td>Dry Panning</td>
<td>Mike Burritt</td>
</tr>
<tr>
<td>April 21</td>
<td>Bookcliffs, CO</td>
<td></td>
<td>Mike Burritt</td>
</tr>
<tr>
<td>April 28</td>
<td>Henry Mountains, UT</td>
<td></td>
<td>Pam Bersch</td>
</tr>
<tr>
<td>May 19</td>
<td>Blue Forest, UT</td>
<td></td>
<td>Mike Burritt</td>
</tr>
<tr>
<td>May 19</td>
<td>Mica Mine, CO</td>
<td></td>
<td>Pat Mitchell</td>
</tr>
<tr>
<td>June 23</td>
<td>Crystal Geyser, UT</td>
<td></td>
<td>Mike Burritt</td>
</tr>
<tr>
<td>July 14</td>
<td>Douglas Pass, CO</td>
<td></td>
<td>Mel Mitchell</td>
</tr>
<tr>
<td>July 25</td>
<td>Wiggins Fork, WY</td>
<td>Overnight</td>
<td>Sue</td>
</tr>
<tr>
<td>July 28</td>
<td>Ouray, CO</td>
<td>Need Volunteer</td>
<td>Mike Burritt</td>
</tr>
<tr>
<td>August 9-12</td>
<td>Buena Vista Show, Hartsel, CO</td>
<td>River Panning</td>
<td>Mike Burritt</td>
</tr>
<tr>
<td>September 15</td>
<td>Gold Club</td>
<td></td>
<td>Mike Burritt</td>
</tr>
<tr>
<td>September 22</td>
<td>Topaz Mountain, Dugway, Delta, UT</td>
<td>River Panning</td>
<td>Christine</td>
</tr>
<tr>
<td>September 22</td>
<td>Owl Draw, UT</td>
<td></td>
<td>Mike Burritt</td>
</tr>
<tr>
<td>September 29</td>
<td>Sand Flats, UT</td>
<td></td>
<td>Mike Burritt</td>
</tr>
<tr>
<td>October 6</td>
<td>State Bridge, CO</td>
<td></td>
<td>Wayne Sims</td>
</tr>
<tr>
<td>October 13</td>
<td>Gold Club</td>
<td>Panning</td>
<td>Mike Burritt</td>
</tr>
<tr>
<td>November 3</td>
<td>Hidden Valley, UT</td>
<td></td>
<td>Mike Burritt</td>
</tr>
</tbody>
</table>

Facetors' Meeting

The February 17th Facetors' Meeting saw the following attending: Howard Whipple, Jim Vaughn, Mike Ryan, Thom and Kathy Ericson and Connie Duncan. Our project stone, "Cedar" was cut by Connie from green Quartz, this design produces a flashy stone, even in Quartz. Howard had cut" Petal 12 for Little Tiny Gems" from Synthetic red Corundum. This stone was a challenge as it had 96 girdle facets. Thom showed a gift he received for Valentine’s Day from a friend, some very large, lite blue Sapphires from Montana.

Since our program today was about CZ, Connie had asked members to bring a couple of cut CZs if they had them. Kathy brought her peach colored CZ, Connie brought two stones and Howard had one CZ. We consider Howard our CZ expert, so the group discussed why some stones are so brilliant and others are rather dull. Some thought that it could be the quality of the rough material, also felt that the design used on the stone could make a large difference. After Connie gave some background about the manufacture of CZ and its comparison to other diamond substitutes, Howard explained his method for cutting and polishing CZ. He takes the polishing a step further, after polishing on a ceramic lap with 100,00 or 200,000 diamonds, he finishes with a quick polish of 100,000 diamond on a Batt lap. We should all follow these suggestions; Howards' CZ's are truly beautiful.

Connie shared some small garnets with the Facetors that Chris Henderson gave to the group. Altho' small, the color and clarity is very good and we were all very appreciative.

Our next meeting is March 17 and our project is a 1992 published design, "Bow Tie Cut".
Classes

Please sign up for classes you are interested in taking. Sign-up sheets are found on the front table during meetings.

- Silversmithing - Cindy Teare - Monday: 12-3:00 PM
- Chain Making - JoAnn Piburn –
- Advanced Lapidary - Wayne McMacken - Tuesday afternoons
- Advanced Lapidary - Thom Erickson- Tuesday: 6-9pm.
- Filigree - Pam Bursch – Saturday: 1-4 PM.
- Casting - Jim Lynch Contact for one on one class
- Faceting - Thom Ericson Contact for one on one class

Dear College Students: You Should Take Geology

By Erik Klemetti

Geology (or, more properly these days, geosciences) is a field that most incoming first-year students have little experience with. Maybe they had a rock collection, maybe they took AP Environmental Science. Maybe, if they were lucky, they had a high school teacher with some training in the field. However, most of the time, geology is faaaaar down the list of disciplines that any first-year might think to study … and the field doesn’t even cross their mind before they graduate.

That, my friends, is a mistake. Few disciplines in today’s world play such a significant role in how society operates and what we can do to protect our future. Few fields of study can play such a profound role in protecting people’s lives on a daily basis, whether you realize it or not. And few can bring together so many disparate ideas, from sciences to social sciences to humanities to the arts, like the study of the Earth can.

https://www.wired.com/2016/08/dear-college-students-take-geology/

Impact Zone Discovered on Scotland’s Isle of Skye

Dec 15, 2017 by News Staff / Source

A team of geologists has found 60 million-year-old ejecta from a previously unknown meteorite impact on the Isle of Skye, northwest Scotland. This is the first recorded mid-Paleocene impact event in the region and is coincident with the onset of magmatism in the British Paleogene Igneous Province. The team, headed by Birkbeck University of London researcher Dr. Simon Drake, found a 3.6-foot (1.1 m) thick layer at the base of a 60 million-year-old lava flow on the Isle of Skye, Scotland.

“We thought it was an ignimbrite — a volcanic flow deposit,” Dr. Drake said. “But when we analyzed the rock using an electron microprobe, they discovered that it contained rare minerals straight from outer space: vanadium-rich and niobium-rich osbornite.

“These mineral forms have never been reported on Earth. They have, however, been collected by NASA’s Stardust Comet Sample Return Mission as space dust in the wake of the Wild 2 comet.”

March Birthstones

The modern birthstone for the month of March is aquamarine. Bloodstone is sometimes considered an alternative birthstone. Aquamarine gets its name from the Latin term for seawater and has a long tradition as the sailor's lucky stone. Aquamarine is a variety of beryl, which is the same gemstone family as emerald and morganite. Though aquamarine and emerald belong to the same family, they are surprisingly different. They are both composed of beryllium aluminum silicate. However, emerald is colored by trace amounts of chromium and/or vanadium, whereas aquamarine is colored by iron. Also, emerald and beryl have essentially the same specific gravity and refractive index, but emerald tends to be quite hazy and included, while aquamarine typically has excellent transparency and clarity. The beryls are quite hard gems, rating 7.5 to 8 on the Mohs scale. Aquamarine requires no special treatment and is suitable for all kinds of jewelry, including rings. Most aquamarine gems have been heat treated at low temperatures to reduce the level of green or yellow.

The intensity of color and the clarity of the stone are the most important criteria when evaluating aquamarine. Deep blue aquamarine gems are rare and command the highest prices in the world's gemstone markets, though what is considered 'deep blue' for aquamarine is still only pastel blue. Unlike other gems, aquamarine is not diminished by a lesser intensity of color - many people actually prefer the more crystal clear lighter gemstones to the richer, deeper colors. You will find aquamarine in both faceted and cabochon cuts.

If you shop on Amazon.com we would like you to try AmazonSmile. The AmazonSmile Foundation will donate 0.5% of the price of eligible purchases Grand Junction Gem & Mineral Club!


March Gem and Mineral Shows in the Region

<table>
<thead>
<tr>
<th>Days</th>
<th>Show</th>
<th>Location</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-4</td>
<td>International Gem and Jewelry</td>
<td>Denver, CO</td>
<td></td>
</tr>
<tr>
<td>2-11</td>
<td>Mid-Winter Fair Imperial Valley Expo</td>
<td>Imperial, CA</td>
<td></td>
</tr>
<tr>
<td>2-4</td>
<td>Mineral &amp; Gem Society of Castro Valley</td>
<td>Newark, CA</td>
<td><a href="mailto:showchair@mgscv.org">showchair@mgscv.org</a></td>
</tr>
<tr>
<td>3-4</td>
<td>Monrovia Rockhounds</td>
<td>Arcadia, CA</td>
<td></td>
</tr>
<tr>
<td>3-4</td>
<td>Ventura Gem &amp; Mineral Society</td>
<td>Ventura, CA</td>
<td></td>
</tr>
<tr>
<td>3-4</td>
<td>Lincoln Gem &amp; Mineral</td>
<td>Lincoln, NE</td>
<td></td>
</tr>
<tr>
<td>8-11</td>
<td>RockHound RoundUp</td>
<td>Deming, NM</td>
<td></td>
</tr>
<tr>
<td>9-10</td>
<td>Rockhound Tailgate</td>
<td>Victorville, CA</td>
<td></td>
</tr>
<tr>
<td>10-11</td>
<td>Pasadena Lapidary Society</td>
<td>San Marino, CA</td>
<td></td>
</tr>
<tr>
<td>10-11</td>
<td>Rock Chucks</td>
<td>Kalispell, MT</td>
<td></td>
</tr>
<tr>
<td>10-11</td>
<td>Salinas Rock &amp; Gem</td>
<td>Spreckels, CA</td>
<td><a href="mailto:garybeckpca@yahoo.com">garybeckpca@yahoo.com</a></td>
</tr>
<tr>
<td>10-11</td>
<td>Turlock Gem, Jewelry &amp; Rock</td>
<td>Turlock, CA</td>
<td></td>
</tr>
<tr>
<td>16-18</td>
<td>Timpanogos Gem &amp; Mineral Society</td>
<td>Spanish Fork, UT</td>
<td></td>
</tr>
<tr>
<td>16-18</td>
<td>Treasures of the Earth</td>
<td>Albuquerque, NM</td>
<td></td>
</tr>
<tr>
<td>17-18</td>
<td>Cottonwood Gem, Jewelry &amp; Mineral</td>
<td>Cottonwood, AZ</td>
<td></td>
</tr>
<tr>
<td>17-18</td>
<td>Gems of the Treasure State</td>
<td>Missoula, MT</td>
<td></td>
</tr>
<tr>
<td>17-18</td>
<td>Lemoore Gem &amp; Mineral Society</td>
<td>Lemoore, CA</td>
<td></td>
</tr>
<tr>
<td>17-18</td>
<td>SCVGMS Gem &amp; Mineral</td>
<td>San Jose, CA</td>
<td><a href="mailto:sonia.dyer@sbcglobal.net">sonia.dyer@sbcglobal.net</a></td>
</tr>
<tr>
<td>24-25</td>
<td>Anthem Gem &amp; Mineral</td>
<td>Anthem, AZ</td>
<td></td>
</tr>
<tr>
<td>24-25</td>
<td>Calaveras Gem &amp; Mineral</td>
<td>Angels Camp, CA</td>
<td></td>
</tr>
<tr>
<td>24-25</td>
<td>Roseville Rock Rollers Gem &amp; Mineral</td>
<td>Roseville, CA</td>
<td></td>
</tr>
<tr>
<td>30-1</td>
<td>Joshua Tree Gem, Mineral &amp; Craft</td>
<td>Joshua Tree, CA</td>
<td></td>
</tr>
</tbody>
</table>

Welcome to AmazonSmile!
The Grand Junction Gem and Mineral Club

**Officers**

- President: Jim Schultz, 242-0428
- Vice President: Val Medeiros, 773-4244
- Co-Secretary: Anita Martinez, 434-9270
- Co-Secretary: Nancy Schuerr, 847-693-8675
- Treasurer: Dave McCollough, 549-7352

**Directors**

- 1 Year: Cindy Teare, 462-6806
- 2 Year: Teri Drost, 256-0983
- 3 Year: Chris Henderson, 719-244-3192
- Past President: Mel Bersch, 242-3134

**Committee Chairpersons**

- Audit: Kathy Ericson, 623-2522
- Building and Ground: Sylvester Spaeth, 846-5716
- Compliance: Tony Kovschak, 433-2691
- Correspondence: Pam Bersch, 242-3134
- Decorating: Linda Dunham, 623-3610
- Display Cases: Mel Bersch, 242-3134
- Education: Cindy Teare, 462-6806
- Field Trips: Wayne Sims, 314-2970
- Funding/Constr.: Mike Cosby, 589-0687
- Historian: Judy Nason, 250-9128
- Inventory: Pat Martinez, 434-9270
- Name Tags: Evita Schultz, 242-0428

- Leaverite Editors: Jo Ann Whalen, 424-2007
- Librarian: Joyce Frost, 255-7078
- Meet-Up: Jim Schultz, 242-0428
- Membership/Badges: Evita Schultz, 242-0428
- Nominating: Teri Drost, 260-2478
- Publicity: Scott Warren, 303-668-5743
- Show: Wayne McMacken, 208-2534
- Show Assistant: Scott Warren, 303-668-5743
- Supplies: Evita Schultz, 242-0428
- Vests: Linda Sims, 314-2970
- Website: John Mayerik, 243-8589

**Board Meeting**

The board will meet at the club house at 7:00 pm on the Wednesday before the 2nd Thursday Cookie Meeting each month. All club members are welcome to attend. Hope to see you there.

**Club Information**

The Grand Junction Gem & Mineral Club, Inc. is affiliated with the Rocky Mountain Federation of Mineralogical Societies. The club is located at 2328 Monument Road Grand Junction, CO, mailing address: P. O. Box 953, Grand Junction, CO 81502. The Club is a nonprofit, 501(c3) tax-exempt, educational organization. Our purpose shall be exclusively educational and social: To increase and disseminate knowledge of the earth sciences pertaining to minerals, gems, rocks, artifacts, fossils and similar subjects; To promote and perpetuate knowledge of the lapidary arts; To encourage field trips; To encourage greater public interest and education in gems, fossils and minerals, cooperating with established institutions in such matters. The Grand Junction Gem and Mineral Club meets on the second and fourth Thursday of each month at 6:30 pm in our club building. November and December meetings will be on the second Thursday only. Our Annual Show is Mother’s Day Weekend and is held at Two Rivers Convention Center at 159 Main St, Grand Junction, CO 81501. Classes and workshops are offered throughout the year. There are sign-up sheets at the clubhouse to get on a waiting list and scheduled classes are posted in the newsletter.

**The Facetors Group**

The Facetors Group meets at the clubhouse on the 3rd Saturday of each month at 9:30 am. They have a Project of the Month and a People’s Choice. They also have teachers available for one-on-one classes. Contact Thom Ericson at 623-2522 for information about the group or classes.

**The Grand Valley Gold Prospectors Group**

The Grand Valley Gold Prospectors Group is now part of the Gem and Mineral club. They will meet each month at the clubhouse at 7:00 pm on the 2nd Tuesday. Everyone is welcome to attend the group. P.O. Box 1357 Grand Junction, CO 81501. Laura Adamson pres., 260-6375; Robert Hubbard vice pres., 254-1449; Chuck Shepard Secretary, 270-5807

**The Mineral Group**

The Mineral Group meets at the Bersch’s, 248 Little Park Rd, at 6:30, on the Friday after the 4th Thursday’s Club Meeting and is open to all club members and guests. A potluck will be followed by discussion and microscopic images of various minerals. Please bring up to 5 specimens, and/or other minerals you wish to look at for the discussion.
New Members
Welcome to the Grand Junction Gem and Mineral Club. Include your email address when you register to receive newsletters and updates. Check out the website for past newsletters and general information. Order a vest made to your size from Linda Sims for $20.00 and a name Tag from Evita Schultz for $10.00. Be sure to sign up for some classes to learn how to use the machines in our shop so you can participate in open shop.

Dues
Our calendar year is January 1 - December 31. Dues are due by January 1 but must be in by January 30 for names to be included in the Club Directory. Please pay your dues at the meeting or send check made out to Grand Junction Gem and Mineral Club, P. O. Box 953 Grand Junction, CO 81502. Prospective members should attend one general meeting to obtain a membership application. New members joining after July 1 will pay half for remainder of year.

Adult Member - $30.00 (18+), 2nd Adult, same household - $10.00 Children under 18 years, same household - No Cost

Club Rules and Regulations
The notebook of rules and regulations is available on the front table at all meetings for members to read.

Gem and Mineral Classes
Most classes are 6 weeks. Member’s cost $30.00. Non-member’s cost is $60.00. The cost of the classes is based on 6 weeks and prorated when the class is shorter. Please contact instructors to sign up for classes.

<table>
<thead>
<tr>
<th>Class</th>
<th>Instructor</th>
<th>Phone</th>
<th>Open Shop</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chain Making</td>
<td>JoAnn Piburn</td>
<td>245-1669</td>
<td>Shop Chairman: Thom Ericson 623-2522</td>
</tr>
<tr>
<td>Chain Making</td>
<td>Cindy Teare</td>
<td>462-6806</td>
<td>Shop Supervisor:</td>
</tr>
<tr>
<td>Faceting</td>
<td>Thom Ericson</td>
<td>623-2522</td>
<td>Thom Ericson 623-2522</td>
</tr>
<tr>
<td>Filigree</td>
<td>Pam Bersch</td>
<td>242-3134</td>
<td>Previous instruction in use of equipment is required</td>
</tr>
<tr>
<td>Intarsia</td>
<td>Jim Lynch</td>
<td>361-2123</td>
<td>before using any tools or machines in the shop.</td>
</tr>
<tr>
<td>Lapidary</td>
<td>Jim Schultz</td>
<td>242-0428</td>
<td>Sign in each time you use the shop.</td>
</tr>
<tr>
<td>Lapidary</td>
<td>Judy Nason</td>
<td>250-9128</td>
<td>Help with the clean-up before leaving.</td>
</tr>
<tr>
<td>Lapidary, Advanced</td>
<td>Thom Ericson</td>
<td>623-2522</td>
<td>Shop fee is $5.00/session.</td>
</tr>
<tr>
<td>Silversmith</td>
<td>JoAnn Piburn</td>
<td>245-1669</td>
<td>Slab saw $.26 per square inch.</td>
</tr>
<tr>
<td>Silversmith</td>
<td>Cindy Teare</td>
<td>462-6806</td>
<td>Always—Safety First</td>
</tr>
<tr>
<td>Wire Weaving</td>
<td>JoAnn Piburn</td>
<td>245-1669</td>
<td></td>
</tr>
<tr>
<td>Wire Wrap</td>
<td>Joyce Trump</td>
<td>255-8045</td>
<td></td>
</tr>
</tbody>
</table>

The Leaverite News
The Leaverite News is your newsletter. Articles, ideas and news should come from the club members. If you are an officer, director, or committee chair person you should plan to submit monthly updates by the 15th of each month. News should be emailed to leaveritenews@gmail.com or contact Lorrie Wallace (250-1122) or Jo Ann Whalen (424-2007, 554 Casa Rio Ct., Grand Junction, CO, 81507. Leaverite News is published nine months of the year (Sept-May by the Grand Junction Gem and Mineral Club, Inc. Articles printed in this newsletter are the experiences and/or opinions of the individuals submitting them. They do not necessarily reflect the views or opinions of the Grand Junction Gem and Mineral Club, nor of the editors. Articles written without a byline are written by the editor. We are not responsible for authenticity, safety, or reliability of publications. All articles/photos are included in accordance to fair use for research and education. Caution and safety should always be practiced when trying out any new idea, venture or exploration in the field. We request corrections and/or additions to articles.

Grand Junction Gem and Mineral Website
Our website, www.grandjunctionrockclub.org, has meeting information, Leaverite Newsletter, Classes, Field Trips, & Photo Gallery. Send information to John Mayerik; 243-8589; email Grandjunctionrockclub@gmail.com

Meetups are neighbors getting together to learn something, do something, share something. The Club is registered at the Grand Junction Meetup. Go to http://www.meetup.com/cities/us/co/grand_junction/ to register or for information or call Jim Schultz at 242-0428.
Summary of Minutes of the Gem and Mineral Club

Board Meeting  February 7, 2018

Call to order by President Jim Schultz @ 7:05pm
Ten board members, committee chairs and members were in attendance.

Old Business:
Classes: It would be helpful to list upcoming classes on the white board for the membership to see during meetings.
Shop: The cost to cut rocks on the large saws remains 25 cents per square inch.

New Business:
Annual Show: We need to form a committee to find a more economical venue for the 2019 show. Considerations include:
Does the convention center have a low rate season?
What about the fairgrounds?

We need to keep our current following in the community.
Scott Warren will work on this committee but needs help.
We need to keep the dealers happy. We are currently short on the number of vendors committed to our 2018 show.

Ways to increase revenue:

i. Should we offer workshops at the show?

ii. Should we buy geodes to sell at our show?

A source in AZ (Holbrook) will sell us 300 geodes @ $2/lb.
There is a vendor for Brazilian geodes on the east slope. We may be able to buy these at $3/lb. or less. Trina Rock Shop in NM will trade geodes for her vendor entrance fee at our show, or she will sell them for $4/lb. (Note: our show is one of the most expensive shows for vendors in this area.)

iii. Should we sale food? Considerations include:
This may be an option at the fairgrounds. To do this would we need a food handler license?

Finance: The finance sheets for 2018 membership need to be updated.

Grab Bags: Grab bags awarded at the end of each meeting may include certificates for one free day at an open shop or free memberships.

Water Issues at the Clubhouse: We need to resolve the lack of water on the clubhouse property.

Next Board Meeting will be Mar 7th @ 7:00 at the GJGM clubhouse.

Submitted by Anita Martinez, co-secretary


c

New Business:

Correspondence: Pam Bersch mentioned members who are out due to medical – Val, Vice President and Becky Scott (knee repair). Announced Virdie Savage will be 102 years old on March 3rd. There will be an open house celebration at Mesa View Retirement Place, 601 Horizon Dr. from 2-4pm.

Presentation: American Mineral Federation video on agates, where they have been discovered, different types, colors, how they were formed.


Submitted by Nancy Schuerr, co-secretary

Cookie Night  February 8, 2018

72 attendees, One new guest – Eric

A big thank you to the committee for Valentine’s Day table decorations.

Old Business:

Discussion on club’s bi-laws for the term length of president, vice president, and secretary. Would like to change one-year term to two years. Vote taken, majority voted in favor of change. Will give notice of change to secretary of state.

Show Committee:
Show Chairman, Wayne McMacken, stated that only 5 people showed up to the committee meeting last week. Wayne would like someone to step in as chairman instead of Scott Warren, so Scott could continue to handle advertising as that is his expertise. Chairman handles logistics includes layout of show, booths, ordering drapes and tables. Dealer Chairman, Bambi will be stepping away from the committee and that position must be filled. She will train. Bambi handles the contracts with the dealers. She has the contract on computer and will pass it on. Need to add dealers. Other positions in the committee are open.

The show is a main source of income for the club. Need more volunteers to help at the show. Help with setup and tear down.

Ideas discussed about changing date of show, location and exhibits. Locations noted: Mesa County Fairgrounds, CMU, Mesa Mall (Sports Authority), DoubleTree Inn on Horizon or new contract with Two Rivers Convention allowing better pricing. Also, Two Rivers going through a remodel soon. Question of whether remodeling work will be done on time. When choosing location, consider power supply, size of room, access important, parking and cost.

Change of date noted as Mother’s Day has so many other events that weekend; possibly October, September. Tie date of show to circuit of other shows, such as Denver.

Events at show – grab bags and mancala game, need more good specimens such as tumbled stones, silent auction (Chris), gold panning section, food (Dave), door prizes (need pendants, rocks, etc.), add geo purchase and breaking them open, items for display cases, kid’s corner.

Classes: Suggested that classes be displayed on wall at the club. Also, would like listed on Meetup.

Field Trips: See in Newsletter and on Meetup.

Summary of Minutes of the Gem and Mineral Club

Board Meeting  February 7, 2018

Call to order by President Jim Schultz @ 7:05pm
Ten board members, committee chairs and members were in attendance.

Old Business:
Classes: It would be helpful to list upcoming classes on the white board for the membership to see during meetings.
Shop: The cost to cut rocks on the large saws remains 25 cents per square inch.

New Business:
Annual Show: We need to form a committee to find a more economical venue for the 2019 show. Considerations include:
Does the convention center have a low rate season?
What about the fairgrounds?

We need to keep our current following in the community.
Scott Warren will work on this committee but needs help.
We need to keep the dealers happy. We are currently short on the number of vendors committed to our 2018 show.

Ways to increase revenue:

i. Should we offer workshops at the show?

ii. Should we buy geodes to sell at our show?

A source in AZ (Holbrook) will sell us 300 geodes @ $2/lb.
There is a vendor for Brazilian geodes on the east slope. We may be able to buy these at $3/lb. or less. Trina Rock Shop in NM will trade geodes for her vendor entrance fee at our show, or she will sell them for $4/lb. (Note: our show is one of the most expensive shows for vendors in this area.)

iii. Should we sale food? Considerations include:
This may be an option at the fairgrounds. To do this would we need a food handler license?

Finance: The finance sheets for 2018 membership need to be updated.

Grab Bags: Grab bags awarded at the end of each meeting may include certificates for one free day at an open shop or free memberships.

Water Issues at the Clubhouse: We need to resolve the lack of water on the clubhouse property.

Next Board Meeting will be Mar 7th @ 7:00 at the GJGM clubhouse.

Submitted by Anita Martinez, co-secretary

New Business:

Correspondence: Pam Bersch mentioned members who are out due to medical – Val, Vice President and Becky Scott (knee repair). Announced Virdie Savage will be 102 years old on March 3rd. There will be an open house celebration at Mesa View Retirement Place, 601 Horizon Dr. from 2-4pm.

Presentation: American Mineral Federation video on agates, where they have been discovered, different types, colors, how they were formed.


Submitted by Nancy Schuerr, co-secretary

8
Another volcano just erupted in the “Ring of Fire”

The Ring of Fire is a major area in the basin of the Pacific Ocean where a large number of earthquakes and volcanic eruptions occur. In a 40,000 km (25,000 mi) horseshoe shape, it is associated with a nearly continuous series of oceanic trenches, volcanic arcs, and volcanic belts and plate movements.

A massive column of smoke and ash shot nearly 10 miles into the sky above Sumatra Monday morning as Mount Sinabung, one of three currently active volcanos in Indonesia, began erupting. It’s the latest rumble in what’s already been a very rowdy couple of months along the Ring of Fire, the geological region that follows the 25,000-mile perimeter of the Pacific Ocean and is home to 90 percent of the world’s earthquakes.

The Volcanic Ash Advisory Center in Australia warned aircraft to divert away from Sumatra, but noted that satellite imagery shows that much of the ash has already dissipated. Mount Sinabung has a tragic history, with deadly eruptions in 2010, 2014, and 2016. More than 30,000 people have left the area in recent years due to the volcano. No fatalities or injuries were reported after Monday’s eruption.

Over in the Philippines, Mount Mayon, which began erupting on January 13 and forced 75,000 to flee, saw another eruption of ash and lava on Monday.

Mount Kusatsu-Shirane, 100 miles northwest of Tokyo, also erupted in January, leaving one soldier dead in an avalanche and injured a dozen at a ski resort. Indonesia’s Mount Agung, which has been spewing ash since November, also had four distinct eruptions.

And then there are the earthquakes. A magnitude 5.9 earthquake struck southern Mexico on Monday, following a magnitude 7.2 earthquake in the region last Friday. Across the ocean, a magnitude 5.3 earthquake shook Taiwan Monday morning.

Could a Change in the Earth’s Spin Lead to More Earthquakes Next Year?

By Erik Klemetti | November 19, 2017

If you’ve seen the news over the weekend, you might have seen a bevy of article proclaiming that 2018 will see a big surge in M7+ earthquakes. This dramatic statement came from a paper in Geophysical Research Letters and an abstract from the Geological Society of America meeting in Seattle. Roger Bilham (Colorado) and Rebecca Bendick (Montana) presented a model that predicts that 2018 will be the opening of a window of potentially higher large earthquake activity due to very, very slight changes in the rate that the Earth spins.

Although we never notice it, the Earth’s spin does change ever so slightly. Geologists aren’t sure what drives this slight variation, but it is likely linked to the Earth’s core. The outer core is a layer of molten iron and nickel that is 2,200 kilometers thick and the whole thing is convecting (moving). This is what drives the dynamo that generates the Earth’s magnetic field, so you should remember to send that “thank you” note to the outer core. However, small changes in that convection in the mantle could be reflected in slight changes in the rate the Earth spins as well.

Just like you might feel that seatbelt pull you in if you hit the brakes (thank you, momentum), if the Earth’s spin slows even a little bit, there is a lot of rock with a lot of momentum that slows with it. You can think of it like the whole planet “sloshing” a little bit. That causes a lot of stress to rocks … and stress added to rocks can lead to earthquakes.

However, Bilham and Bendick say that they have found examples where the slight deceleration of the Earth’s spin take awhile to propagate through the Earth’s rocks. So, after that small slowing of the Earth’s spin happens, there is a 5-6 year lag before they identify an increase of up to 30% in big earthquakes (over magnitude 7) between 10-30º latitude N and S. This increase could last up to 5 years, but the duration is unclear based on the current data.

Why 2018? Apparently 2017 is the 6th year since that last deceleration event, so 2018 may see an increase in M7 earthquakes … and that’s the real issue. This is a theory that comes from looking at data since 1900, so although there have been multiple occurrences of this increase after changes in Earth’s spin, 2018 would be the first time that we could predict that we should expect changes. If an increase happens, then Bilham and Bendick are likely onto something. If it doesn’t this doesn’t mean they are wrong, but rather that the situation might be more complicated than their models suggest.

We’ve already seen two M7 earthquakes over the last few weeks: the M7.3 on the Iran/Iraq border on November 12 and the M7.0 in New Caledonia in the west Pacific on November 19. The former saw over 500 deaths, making it the deadliest of the year. [Source](http://blogs.discovermagazine.com/rockyplanet/2017/11/19/earths-spin-earthquakes-2018/#.Woz2C6jwaUk)
Door opens for mineral interests

By DENNIS WEBB
Dennis.Webb@gjsentinel.com
Saturday, February 3, 2018

Large swaths of land cut from two Utah monuments by President Trump are now open to things such as mining claims and oil and gas leasing after previous protections from such activities expired.

Trump in early December ordered that Bears Ears National Monument in southeastern Utah be reduced to about 200,000 acres in size, down from 1.35 million acres after then-president Barack Obama ordered its creation in 2016. He also decided to shrink Grand Staircase-Escalante National Monument in southern Utah, created by former president Bill Clinton in 1996, to 1 million acres in size, about half its previous size.

Under Trump’s proclamations, the lands removed from the monuments became open to mining claims and mineral leasing at 9 a.m. Eastern Standard Time 60 days after the proclamation, which meant Friday morning.

Grand Staircase-Escalante Partners, an advocacy group for the monument, said on its website that as of Friday the removed lands became vulnerable not just to the extractive industry but to road development and even transfer to the state of Utah.

http://grandjunctiondailysentinel.co.newsmemory.com/?token=359d4723d4c35f1c8d759f52c1c91f0f_5a75e995_1527067&selDate=20180203&utm_source=emailMarketing&utm_medium=email&utm_campaign=email+stats
Former astronaut is Trump’s pick to lead US Geological Survey

James Reilly completed five spacewalks for NASA and has a PhD in geoscience. After hundreds of hours in space, former astronaut James Reilly is set to keep his eyes peeled on the US landscape. President Donald Trump will nominate Reilly to lead the US Geological Survey (USGS), the White House announced on 26 January.

Reilly is now a technical adviser for the US Air Force’s National Security Space Institute. If confirmed by the Senate, he would be the second person with a PhD in science to be nominated by Trump to lead a major science agency. (The first was Francis Collins, director of the US National Institutes of Health.)

Reilly is “pretty formidable, and a very strong presidential nominee,” says Allyson Anderson Book, executive director of the American Geosciences Institute in Alexandria, Virginia. As a former petroleum geologist, Reilly has an “excellent working knowledge” of the USGS, whose mission includes studying the country’s natural resources and the hazards that threaten it, Anderson Book says.

Reilly’s experience at NASA and his ability to work well with people will help him in the new role, says Robert Stern, a geoscientist at the University of Texas at Dallas who supervised his master’s thesis. “You can’t be an astronaut and have thin skin,” Stern says.

“I’m interested to see what [Reilly] will prioritize,” says Anderson Book, who hopes that the next USGS director will maintain the agency’s library, a one-of-a-kind collection of thousands of historical records from the USGS and from state and foreign geological surveys, scientific societies and museums. Trump has proposed cutting the US$5.8-million facility’s funding roughly in half. “Shutting it down would undermine the work of USGS,” Anderson Book says. She also wants Reilly to bolster the agency’s biology-focused programmes and activities.

Reilly earned his undergraduate, master’s and doctoral degrees in geosciences from the University of Texas at Dallas. He then worked as an oil and gas exploration geologist for Enserch Exploration in Dallas, where he helped to apply new imaging technology in deep-water engineering projects and geological research.

In 1994, NASA selected Reilly to train as an astronaut. He logged more than 853 hours in space, including 5 spacewalks, before retiring from the agency in May 2008.

https://www.nature.com/articles/d41586-018-01330-9