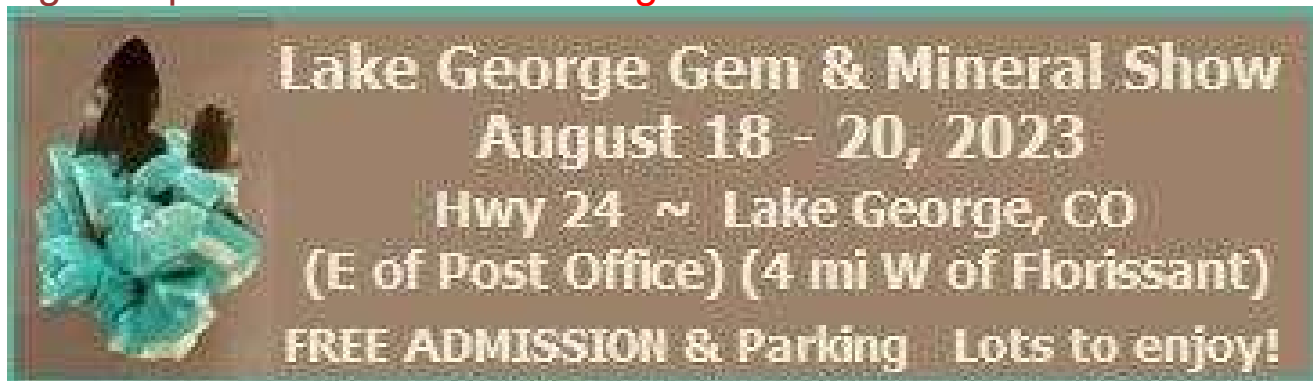


# Lake George Gem & Mineral Club

## Club News, August, 2023



**Please Note:** The August meeting has been canceled because we have neither a place to meet nor a program. However, **members who volunteered to help set up the field** for the August gem and mineral show are asked to meet at the Lake George Community Center at 9AM August 12 to complete that job. Pizza will be served afterwards. Please contact Show Chair Carol Kinate (text/call 719-648-9015) if you are not sure whether you signed up. **Come to the show Aug. 18-20!**



↘ At our October meeting, **Dan Mira** will take us on a journey to the beautiful Maramures region of Romania, which lies on the border with Ukraine. Home of numerous mines going back at least to the 14<sup>th</sup> century, the Maramures region has produced nearly 300 mineral species. Dan will give us an introduction to this historic, mineral-rich area.

- **Markus Raschke** will give a talk (not yet scheduled, but probably this fall) on his adventures tracking down a world-class scheelite-beryl-cassiterite deposit in the Tibetan Plateau of China.

↘ **ADDITIONAL COMING EVENTS OUTSIDE THE LGGM CLUB:** (Nearby gem, mineral, fossil, and geology events that you may enjoy.) Go to each club's website for more information.

- **Cañon City Geology Club** meets on the 2<sup>nd</sup> Monday of the month at 6PM in the United Methodist Church, Cañon City
- **Columbine Gem & Mineral Society**, meets on the 2<sup>nd</sup> Thursday of each month, 6:30PM in the meeting room, Mt. Shavano Manor, 525 W. 16<sup>th</sup> (at J St.), Salida
- **Colorado Springs Mineralogical Society**, meets on the 3<sup>rd</sup> Thursday of each month at 7PM in the Mt. Carmel Veteran's Service Center, 530 Communication Circle, Colorado Springs;
- **Pueblo Rockhounds**, meets on the 3<sup>rd</sup> Thursday of each month at 6:30PM in the Westminster Presbyterian Church, 10 University Circle, Pueblo.

↘ Thanks to **Pete Modreski** for the following list of upcoming events:

Coming Earth Science Events, July 2023 onward

**Fri., July 14, 6:15-7:30 p.m.,** Dinosaur Ridge Fireside Chat, at the Dinosaur Discovery Center, presentation by Neffra Matthews, **“25 Years of Photogrammetric Ichnology at the Morrison Fossil Area National Natural Landmark: a 3D Look at the Past and a 4D Look to the Future”!**

“Let’s gather to enjoy some nibbles, drinks, and a one-of-a-kind presentation from Neffra Matthews, whose highly respected work with photogrammetry is helping Dinosaur Ridge document its fossil treasures and develop strategies for future protection. This important work is crucial to our mission of preservation!” Registration fee is \$12; to attend, see [www.tinyurl.com/fireside-july](http://www.tinyurl.com/fireside-july) .

**Tues., Aug. 15, 6:00-8:00 p.m.,** Dinosaur Ridge Fireside Chat, at the Dinosaur Discovery Center, presentation by Dr. Lou Taylor, **Amphicoelias: Update on the Ghost Dinosaur.** Registration fee is \$12; to attend, see [www.tinyurl.com/fireside-aug](http://www.tinyurl.com/fireside-aug) . For more info see [www.dinoridge.org/events](http://www.dinoridge.org/events) .

**Denver Museum of Nature & Science, Earth Science Colloquium, In the VIP Room; in-person only, all are invited, Museum admission not required; check in at the Security Post.**

See <https://sites.google.com/view/dmnsdes2020colloquiumschedule/home> ; Here is the DES Colloquium schedule for all the colloquium talks for the rest of the year:

**Thurs., Aug. 24, 2:00-3:00 p.m.,** Mass extinctions and high resolution astrochronology in the Upper Devonian: Tales from New York and Colorado. (Jeff Over, SUNY – Geneseo)

**Tues., Oct 10, 2:00-3:00, To Xiphactinus and beyond: The savage seas of ancient Kansas.** (Anthony Maltese, Rocky Mountain Dinosaur Resource Center)

**Mon., Nov 6, 2:00-3:00, Our Earth was completely frozen? Twice?** (Carol Dehler, Utah State U.)

**Thurs., Sept. 21, 6:00 p.m., Colorado Scientific Society** Past Presidents’ Dinner; presentation by **Monte Swan**, MagmaChem Associates, LLC, topic title TBA; in-person dinner meeting at Mount Vernon Canyon Club, Lookout Mountain, Golden; see <https://coloscisoc.org/> for details. All are welcome.

**Thurs, Oct. 19, 7:00 p.m., Colorado Scientific Society** October meeting, **Permafrost and Melting in the Arctic**, by Denny Capps, Denali Park and Preserve Chief Geologist; in-person meeting at Calvary Church Golden; see <https://coloscisoc.org/> for details. All are welcome.

**Thurs., Nov. 16, 7:00 p.m., Colorado Scientific Society** November meeting, **Colorado Structural Evolution**, by Lonn Abbot, University of Colorado; in-person meeting at Calvary Church Golden; see <https://coloscisoc.org/> for details. All are welcome.

**Thurs., Dec. 14, 6:00 p.m., Colorado Scientific Society, December Annual Meeting, Potluck Dinner and Presidential Address, Cal Ruleman, US Geological Survey (presentation title TBA);** in-person meeting at Calvary Church Golden; see <https://coloscisoc.org/> for details. All are welcome.

There are a lot of “rock” (gem and mineral) shows taking place this summer, most of them “outdoors, in tents” and with free admission. Here is a list; have fun!

**Fri.-Sat.-Sun., Aug. 4-6, Creede Rock & Mineral Show.**

**Thurs.-Fri.-Sat.-Sun., Aug. 10-13, “Contin-Tail” rock show at Buena Vista Rodeo Grounds** (Sat.-Sun. Aug. 12-13 is also the Buena Vista “Gold Rush Days”).

**Thurs.-Fri.-Sat.-Sun., Aug. 17-20, Woodland Park Rock & Gem Show.**

**Fri.-Sat.-Sun., Aug. 18-20, Lake George Gem & Mineral Show,** sponsored by the Lake George Gem & Mineral Club.

**Sept. 7-11, Just Minerals & Crystals Event, Summit Conference & Event Center, 411 Sable Blvd., Aurora/Denver** (free admission).

**Sept. 8-16, Colorado Mineral and Fossil Show**, at the Crowne Plaza DIA, 15500 E 40<sup>th</sup> Ave., Denver (free admission).

**Sept. 8-17, Denver Mineral, Fossil, Gem & Jewelry Show**, at National Western Complex and Denver Coliseum (free admission).

**Fri.-Sat.-Sun.-Mon., Sept. 15-18, Denver Gem and Mineral Show**; part of the "Hardrock Summit" mineral and gem show, at the Colorado Convention Center. The 2023 theme is "Gem Minerals: Nature's Bling". Sponsored by the Greater Denver Area Gem & Mineral Council, it will include displays and demonstrations by area gem and mineral clubs plus special museum displays from around the country (admission charge).

👇 Show season is in full swing:



**MINES MUSEUM**  
of earth science

**SALE**

Art. Artifacts Minerals, Fossils

**UP TO 75% OFF**

SATURDAY, AUGUST 5TH &  
SUNDAY, AUGUST 6TH



WHETHER YOU'RE A SEASONED COLLECTOR OR A PASSIONATE ENTHUSIAST, THIS SALE IS NOT TO BE MISSED!

Mark your calendar, set your reminders, and get ready to shop our biggest sale of the year! Don't miss out on this extraordinary opportunity to support the Museum & secure your favorite pieces before they're gone! Sale starts next Saturday from 9am-4pm, ends Sunday, 1pm-4pm.



**BUENA VISTA**

**CONTIN-TAIL GEM, MINERAL, & FOSSIL SHOW**

Free Admission - Free Parking  
Buena Vista Rodeo Grounds  
Gregg Dr. Buena Vista, CO 81211  
August 10th -13th 2023  
9 AM- 6 PM Daily

  @bvrockshow

**BVROCKSHOW.COM**



**America's Largest Mineral, Fossil, Gem & Jewelry Show**

**National Western Complex**

**FREE Entry & Parking**

**www.Denver.Show**

Colorado Mineral & Fossil Fall Show  
 September 8-16, 2023  
 Crowne Plaza DIA  
 15500 E. 40th Ave, Denver, Colorado 80239



Grand Junction Gem & Mineral Club  
 P.O. Box 953  
 Grand Junction, CO 81502

Grand Junction Gem & Mineral Club Presents  
**The 2023 Fall Gem & Mineral Show**  
 September 23 & 24 • Sat 9-5; Sun 10-4

POSTAGE

Mesa County Fairgrounds  
 2785 Hwy.50, Grand Junction, CO  
[www.grandjunctionrockclub.org](http://www.grandjunctionrockclub.org)

Please post on your bulletin board!  
 Thank You.

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Silent Auctions All Day • Displays & Demonstrations • Geodes • Tools & Equipment • Finished Stones

**Grand Junction Gem & Mineral Club presents**  
**77th Annual Gem & Mineral Show!**

September 23 & 24, 2023;  
 Sat 9-5; Sun 10-4

Entry \$5, Seniors & Military \$4;  
 Kids under 12 Free

Mesa County Fairgrounds,  
 Grand Junction, CO

*World of Rocks*

One of the Largest Shows in Western Colorado and Eastern Utah

Kids Activities • Mineral Specimens • Showcases • Beads & Gems • Jewelry • Interactive Exhibits • Fossils

the  
**JUST  
 & MINERALS  
 & CRYSTALS**  
 Event

**Summit Conference & Event Center, 411 Sable Blvd., Aurora, Colorado 80011**  
 September 7, 2023: 2 pm - 7 pm  
 September 8-10, 2023: 10 am - 5 pm  
 September 11, 2023: 10 am - 4 pm

**HARD  
 ROCK  
 SUMMIT  
 DENVER**

The Fall Show for the finest minerals, fossils, gemstones & jewelry

**SEPTEMBER  
 15 – 18 2023**



Colorado Convention Center

↘↘ Field-Trip Guru **Dave Alexander** sent this report on past and future trips. Field-trip season has been fantastic so far this year. There are a few important items related to field trips we'd like to get better at...

1. Still having **significant** numbers of **no-shows**. Again, we ask that, if you are not interested in going on the trip and you are registered, please unregister, at the latest, the NIGHT BEFORE the trip, but preferably sooner, which will give as much time as possible for the wait-listed next-in-line to be ready. If you are on the wait list and aren't interested in a last-minute bump to be an attendee, take yourself off the wait list too.
2. Day-of cancellations. If you determine you can't make it the **morning of the event**, please **contact the field trip leader (text or phone) THAT MORNING**, as they get a list of attendees the night before at 11pm, and that is their "final list" (all changes after 11pm are not known to the trip leader). The trip leader's phone number is published with every event. Removing yourself from the attendee or wait list the morning of doesn't help with the wait list unless you do it many hours in advance because the next person on the list could be 4-5 hours away and not have time to drive to the meeting place after waking up in the morning and seeing the notification. **ANY removal from the attendee list you do after 11pm the night before requires a text or phone call to the trip leader prior to the meeting time, please!**
3. Weather. We suspect this is a common reason for the no shows: folks check the forecast and say they don't want to deal with the weather for that day. Note that we tend to still have the trips unless the weather forecast is looking very gloomy and/or it threatens safe travel. It's rare we will cancel on the morning of the trip. Many of the trips this season forecast a percentage of rain and have ended up being beautiful days with folks finding fantastic material!

A couple of helpful website tips...

- You can always see the trips you are signed up for on our event website in >Profile >My Events section.
- You will get a reminder email a few days prior to the event that you are signed up. Make sure your email provider is not rejecting our automated emails and ensure they are not in your spam folder, more info below.
- You will know you are waitlisted for the event by visiting that event where you will see your status and the option to remove yourself from wait list.

For those with **Apple-hosted emails** ([icloud.com](https://www.icloud.com), [me.com](https://www.me.com), [apple.com](https://www.apple.com), etc.) we have had issues with the provider blocking/rejecting our email notifications. Regardless of your email provider, you should be proactive and **ensure that "[noreply@lggmcfielddtrips.com](mailto:noreply@lggmcfielddtrips.com)" is a configured safe-sender**. Make sure you also check your "Junk Mail" folder for notifications. For the blocking/rejected email issue, everyone with this issue I have emailed at least once (some multiple times) with the specific information that is provided to us in the bounced/rejected email.

This is the information that is provided back to our club by the Apple-based email hosting service...it's kinda technical but I believe this means that you need to add the notification email address to your safe-senders list; it may be that you can do it on your device, but you may have to log into the web-mail interface in the cloud to make the change:

*"Message blocked - Your message to [xxxx@icloud.com](mailto:xxxx@icloud.com) has been blocked. See technical details below for more information. The response from the remote server was: 554 5.7.1 [CS01] Message rejected due to local policy. Please visit <https://support.apple.com/en-us/HT204137>"*

## Upcoming trips

**We have added several trips recently and may add a few more. Check our website for the full list.**

### **UTAH/NEVADA:**

Per request of many club members, we have an amazing Utah/Nevada set of trips published as a joint trip with Colorado Mineral Society. There are six field-trip options available over Labor Day weekend. Check them out!

### **MT ANTERO:**

We are guests with Mile Hi RAMS club to Mount Antero, the trip is still on. There have been changes on how our host (Cardwell) is mining this season and we are awaiting direction on exactly where we will be visiting over the two days—the dig location may change the tools required. I'll get that information updated as soon as I have it.

### **GOLD CITY CLAIM:**

The claim owner has restrictions on how many folks can visit this site for fluorescent minerals at a time, so he has generously offered many trips this season to accommodate the demand from our club. There are two trips upcoming in

September, one in the afternoon and the other in the evening. These are published and will be available in mid-August for sign-up. See the trip details on our website for specific information. We ask if you've already gone this year to not sign-up allowing others the opportunity. Please only sign up for one of the remaining trips.

#### **CLUB CLAIMS RECLAMATION:**

This is a joint trip with Denver Gem & Mineral Guild. We want to ensure to keep our claims in the National Forest in great shape by filling holes. This is your opportunity to see the borders of the claims and learn how claims work. We typically spend the first few hours walking the perimeter and interior of the claims and filling any holes that we find. It's usually a fairly quick process, which leaves the rest of the day to have some fun digging on our claims.

#### **TIME ASSASSIN CLAIM:**

This trip is currently booked to the 25-person limit, but there is no one on the waitlist. Typically, as the trips get near the waitlist becomes active, so there is still potential opportunity for this trip.

#### **(possible) BOOK CLIFFS:**

We need a trip leader or this will be cancelled (I'm targeting mid-August to cancel if necessary). There is certainly an option to visit multiple sites over a couple of days, I'm just waiting for a confirmed leader and we can work out the details. We had other clubs (RAMS and CSMS) interested in going with us. If you are interested in leading this trip and have experience prospecting Book Cliffs, please contact me.

#### **(possible) FOSSIL SAFARI, KEMMERER, WY:**

Earlier this spring we were guests of Colorado Springs Mineralogical Society to Fossil Safari, but had to postpone the trip due to issues at the mine. I'm not sure that CSMS will reschedule this year, but our club can still make this trip happen. This trip should be easy to lead given 1) there is no caravan, folks show up when they show up at the quarry and 2) there isn't a need for everyone to meet up at a specific time. The leader will just work with me to ensure that we communicate to the quarry if we have enough participation for a discounted rate. If you want to visit, as the leader you can choose the date that works for you, so please contact me if interested and we can get this back on the calendar. <http://www.fossilsafari.com/faqs.html>

#### **2024 Planning**

As this season winds down, there are only a couple of months before membership registration opens for 2024 (January - March). When making decisions on which clubs to join, potential members look to the events that are being planned by the clubs that are published on their websites. Thus, we will need to start planning a schedule of events (even if dates and reservations are not finalized) prior to January.

**The club is looking for volunteers to help in coordinating events.** I will continue to participate in the coordination process next year, **but I need assistance.** You can see the descriptions of volunteer roles that make our field trip events happen on our field trip website. <https://fieldtrips.lggmclub.org/club-events>. Reach out to me if you'd like to assist or have questions. [dave@davealex.com](mailto:dave@davealex.com)



Dave also sent this nice picture of a young LGGMC member with a fossil *Fagopsis longifolia* that she found on the Club's trip to the Florissant Fossil Quarry on July 8. More than 20 members attended, and many found fine insect and plant fossils.

👉 **Frank Rosenberg** sent some pictures from the July 8 meeting. Thanks, Frank! If you missed the meeting, you can see that we had a great turnout for Chad McCarty's talk.



↘ Steve Veatch sent this contribution. Steve's use of AI scares the daylights out of me.....

**The Pick Boys**  
***The Cripple Creek Mining District***  
**By Steven Wade Veatch**

From old and brittle photographs,  
the faces of young boys look out.  
One puffs on a spit-soaked cigar  
from the corner of his mouth.  
Another scrub-faced kid smiles.  
Both pose with the men.

The story is clear—  
When a father was killed or disabled,  
some boys worked in the mines  
as breadwinners. Other boys quit school  
to follow the adventure of mining.

They were the pick boys  
who ran errands, fetched supplies,  
carried dull drills and picks  
to blacksmiths for sharpening,  
lugged water to thirsty miners,  
and tended the donkeys.

They tramped deep underground.  
Timbers creaked and water dripped.  
Grime stained their clothes  
from the damp and muddy  
places they worked.

Endless blackness swallowed  
flickering candlelight.  
Deadly gases threatened.  
Rock dust from drilling, fumes of blasting,  
and smoke from candles burning filled the air.

The roar of blasting and the racket  
of drills was constant. Yet they worked  
in deliberate routines to earn their meager pay  
in a time and place so different from today.



**A Pick Boy at work.** This AI image was created by the author with the assistance of DALL·E and MS Bing.



**A Pick Boy takes a break deep underground.** This AI image was created by the author with the assistance of DALL·E and MS Bing.

↘ Wayne Orlowski sent a mind-blowing video giving a history of oil production by country:  
<https://youtu.be/syoN4Siomrw>

↘ Paul Combs sent this interesting link to an article about a mammal that *might* (or might not) be biting



a dinosaur:

<https://www.npr.org/2023/07/18/1188275701/this-fossil-of-a-mammal-biting-a-dinosaur-captures-a-death-battle-fina>

↘ To see a spectacular geologic fossil ammonite death assemblage, go to this Rock Seeker link:

[https://rockseeker.com/the-ammonite-wall-of-digne-les-bains/?ck\\_subscriber\\_id=1874913717&utm\\_source=convertkit&utm\\_medium=email&utm\\_campaign=The+incredible+les-Bains%20-%2011229920](https://rockseeker.com/the-ammonite-wall-of-digne-les-bains/?ck_subscriber_id=1874913717&utm_source=convertkit&utm_medium=email&utm_campaign=The+incredible+les-Bains%20-%2011229920)

↘ Here's an article from "Rock & Gem" about one of this month's birthstones:

[https://www.rockngem.com/peridot-crystals/?fref=e5f9b357-194b-4ebe-ab72-a9e86786edd8&em=Y2Nhcm5laW5AZ21haWwuY29t&utm\\_campaign=RnG+Weekly+July+13\\_2023](https://www.rockngem.com/peridot-crystals/?fref=e5f9b357-194b-4ebe-ab72-a9e86786edd8&em=Y2Nhcm5laW5AZ21haWwuY29t&utm_campaign=RnG+Weekly+July+13_2023)



Notes from the Editor

Bob Carnein

Newsletter Editor [ccarnein@gmail.com](mailto:ccarnein@gmail.com)

**CONGRATULATIONS** to the following LGGMC members who received awards at the recent Rocky Mountain Federation of Mineralogical Societies meeting. The awards are for articles and poetry published here in 2022. And, thanks to **Frank Rosenberg** for representing us at the meeting, and a **BIG THANK YOU** to Club members who contributed to the newsletter!

**First Place** (adult articles): **Paul Combs**, "Excuse me, your watch is .002 seconds off."

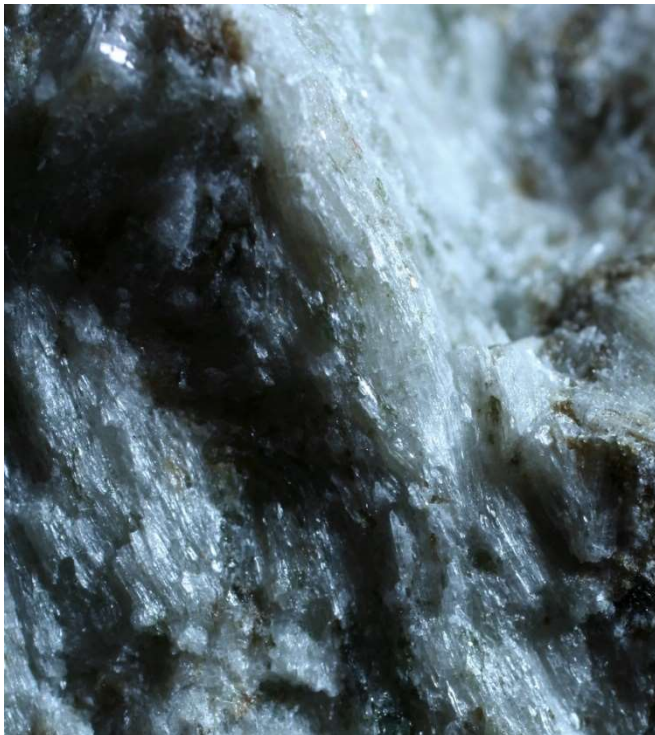
**Third Place** (adult articles, advanced): **Steve Veatch**, "Independence: a town of troubles in the Cripple Creek Mining District"

**First Place** (junior poetry): **Josilyn Teague**, "Which Color is Your Favorite?"

No new articles came in this month, so I'm taking a break. **Remember, the Club needs officers for 2024, including Newsletter Editor. Please consider volunteering to serve your club.**

## Monthly Mineral Quiz

The Monthly Mineral for July (Carnein photos and collection)



This month's mineral is pretty common, but fine crystals like the green ones shown above are rare (this one came from Merelani, Tanzania). You may have found this mineral in a nearby locality where impure limestone underwent contact metamorphism (and you'll have another chance to collect it there in September). It's one end member of an important rock-forming series of silicate minerals that is itself part of a much larger group of rock-forming minerals. Hardness is 5 to 6, SG averages about 5, and members of this group have 2 cleavages at about 60 and 120 degrees (prismatic cleavage). There are so many localities that it would be pointless to list them. What is this very common mineral?



**Last Month's Mineral: Bornite,  $\text{Cu}_5\text{FeS}_4$**  is a major ore of copper that occurs at many world-wide localities. Commonly called "peacock copper, its iridescent coating over a fresh bronze color distinguishes it from other minerals that are sometimes iridescent (e.g. chalcopyrite, pyrite, goethite, etc.). It typically occurs as a primary mineral in porphyry-copper deposits or as a secondary mineral in supergene sulfide deposits (where it is a result of redeposition of copper below the water table). The hardness is 3, SG is near 5, and fine crystals are relatively rare. Mindat (accessed July, 2023) lists nearly 150 Colorado localities.



**The Lake George Gem and Mineral Club** is a group of people interested in rocks and minerals, fossils, geology and history of the Pikes Peak/South Park area, Indian artifacts, and the great outdoors. The Club's informational programs and field trips provide opportunities to learn about Earth science, rocks and minerals, lapidary work and jewelry making, and to share information and experiences with other members. Guests are welcome to attend, to see what we are about!

The Club is geared primarily to amateur collectors and artisans, with programs of interest both to beginners and serious amateurs. The Club normally meets on the second Saturday of each month at the Lake George Community Center, located on the north side of US Highway 24 on the east edge of town, sharing a building with the county highway shops. **In the winter, we meet at 10:00AM. From April through October, we meet at 9:00AM, to allow more time for our field trips.**

Our organization is incorporated under Colorado law as a nonprofit educational organization, and is a member of the Colorado, Rocky Mountain, and American Federations of Mineralogical Societies. We also sponsor an annual Gem and Mineral Show at Lake George, where collectors and others may purchase or sell rocks, minerals, fossils, gems, or jewelry. Annual membership dues (Jan. 1 through Dec. 31) are \$15.00 for an individual (18 and over), and \$25.00 for a family (parents plus dependents under age 18). New memberships and renewals are only accepted Jan 1 through March 31 each year.

### **Our Officers for 2023 are:**

**Richard Kawamoto**, President  
7584 Cedar Mountain Rd.  
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