

The Lake George Gem and Mineral Club -

Club News
May, 2016



During May and June, LGGMC has no business meeting; instead, we will meet at the Lake George Community Center at 9:00 May 7 to car-pool to the Club Claim. Here's a description of the trip from President John Rakowski:

There will be no regular May and June meetings of the LGGMC so that field trips can proceed early and promptly. The field trip list is being finalized and there will soon be a link on our website to sign up. First you will get an email from memberplanet.net and you will need to open that, click **Join Now** and *then follow instructions*. A tutorial will be sent to help us through this transition. It is hoped that the link on the website will make it easier for all 400 of us to have a fair chance at field trips. **Current members only will be allowed on the trips.** Guests or members who failed to renew on time will not be allowed to participate.

Our first trip, weather permitting, will be on Saturday May 7 going to the Club Claim. Watch your email and the club website for more information.

Please Note: If the weather is threatening, the officers of LGGMC will try to make a decision the evening before the scheduled meeting or trip to cancel, if road conditions might be dangerous in the area. Be sure to check your email **BEFORE** leaving your house for the meeting!

Coming Events

✓ ✓ Several mineral, fossil, and geology clubs meet relatively nearby and encourage visitors. These include:

> **Cañon City Geology Club**, meets on the 2nd Monday of the month at 6PM in the United Methodist Church, Cañon City;

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>**Colorado Springs Mineralogical Society**, meets on the 3rd Thursday of each month at 7PM in the Colorado Springs Senior Center, 1514 N. Hancock Ave., Colorado Springs;

>**Columbine Gem & Mineral Society**, meets on the 2nd Thursday of each month, 6:30PM in the meeting room, Mt. Shavano Manor, 525 W. 16th (at J St.), Salida;

>**Pueblo Rockhounds**, meets on the 3rd Thursday of each month at 6:30PM in the Westminster Presbyterian Church, 10 University Circle, Pueblo.

✓ ✓ **Pete Modreski** sent notices of the following upcoming events:

Thurs., May 5, 7:00 p.m., the last for this season of the Friends of the CSM Geology Museum's "First Thursday" lecture series, "**Uranium Fever -- Wyoming Historical & Geological Briefs with Anecdotes**", by Jim Davis, CEO and Director of Exploration for Innovation Exploration Ventures LLC. In the Ben H. Parker Student Center, Ballroom E, Maple Street, Golden. Socializing begins at 6:30 p.m. and the talk will start at 7:00. Admission is free and all are welcome.

Sat., May 7, 11:00 a.m. – 2:45 p.m., **Colorado Mineral Society Silent Auction**, Holy Shepherd Lutheran Church, 920 Kipling St., Lakewood CO. For more information see <http://www.coloradomineralsociety.org/>.

Thursday, May 12, 7:30 p.m., May FMCC meeting, **Geology and mineral deposits of the Upper Peninsula, Michigan**, by Jim Cappa. In the VIP room, Denver Museum of Nature and Science. You can read more about Jim's talk on our Chapter website, <http://friendsofmineralogycolorado.org/events/>.

Sat., May 14, Friends of Mineralogy, Colorado Chapter, Silent Auction. Clements Community Center, 1580 Yarrow St., Lakewood CO, 12:00-3:00 (setup begins at 11 a.m.)

Sat., May 14, Dinosaur Discovery Day public tour day at Dinosaur Ridge, by the Visitors Center, 16831 W. Alameda Parkway, Morrison CO. Featuring Boy Scout Day with special activity booths for scouts and others. Tours from 10 a.m. to 2 p.m.; walking tours are free, charge to ride a tour bus. For more info see www.dinoridge.org

June 3-5, 53rd Annual Pikes Peak Mineral & Jewelry Show, Mortgage Solutions Expo Center, 3650 N. Nevada Ave., Colorado Springs. Admission charge.

June 17-19, 4th Annual Victor Gem & Mineral Show, on the streets of Victor, Colorado. Free Admission.

July 15-19, the "2nd Eugene E. Foord Symposium on Pegmatites, Golden Colorado" will take place on the CSM campus. There will be a welcoming reception, two days of oral and poster presentations, and two days of field trips to Colorado pegmatite localities. For further information see <http://www.colorado.edu/symposium/pegmatite/> or the Friends of the Colorado School of Mines Geology Museum page, <https://www.facebook.com/LikeCSMGeoMuseum/>. Pegmatite researchers from around the country and internationally are expected to attend, as well as local presenters. All interested persons are invited to attend.

Aug. 12-14, Contin-Tail Gem & Mineral Show, Buena Vista Rodeo Grounds, Buena Vista, CO

Aug. 19-21, Lake George Gem & Mineral Club annual show, Lake George, CO (details later)

The following are all parts of the annual Denver show:

Sept. 9-16, Denver Expo Gem Show, National Western Complex, Expo Hall.

Sept. 10-18, Coliseum Mineral, Fossil, & Gem Show, Denver Coliseum.

Sept. 10-18, Miners' Coop Mineral Show, Denver Coliseum parking lot.

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Sept. 11-18, Colorado Mineral and Fossil Show, Ramada Plaza Motel.

Sept. 14-17, Denver Fine Mineral Show, Marriott Denver West.

Sept. 15-18, International Gem & Jewelry Show, Denver Mart, Pavilion Bldg.

Sept. 16-18, Denver Gem & Mineral Show (this is the "main show"), Denver Mart, Expo Hall (admission charge).

✓ ✓ **Trent Foky**, a senior at Woodland Park High School from Divide, was awarded a \$1000 scholarship from our club to attend the college/university of his choice. He plans to pursue a double major in geology and biology, probably at Whitman College, in Walla Walla, WA.

✓ ✓ Club hats are available for \$10. Contact **Bobby Korzekwa** or **John Rakowski** to reserve yours.

✓ ✓ The following field trips are "on tap" for May and June. To register, you need to follow instructions received by e-mail (**note**: some trips have limits on attendance):

May 7: Patience and Piety Claims

May 14: New Hope Amethyst Mine

May 21: Arroya Gulch garnets

June 11: Hartsel blue barite

June 25: Topaz Mountain Gem Mine

Dan Alfrey sent this reaction to the sign-up process for field-trip reservations:

[I just created my *personal* Login for the MemberPlanet application.](#)

[With a search I found the LGGMC 'group',
and I added the LINK to the Club website.](#)

[It sent me an eMail confirmation, for the TEST \(event\) provided.](#)

*it's Rock-n-Roll,
//Dan*

Thank-You JOEY & BOBBY !!!! *'Love it.*

✓ ✓ We are going to miss **Todd Mattson's** skills as field-trip coordinator, and we hope he'll be able to return to that job soon. Todd planned a great line-up of trips for 2016, and you can find others at the Club website.

✓ ✓ Here's some news from **Steve Veatch** about **Jenna Salvat**, whose science-fair project was written up in last month's newsletter:

Greetings, I am pleased to announce that Jenna Salvat, a teen member of the Colorado Springs Mineralogical Society's Pebble Pup program, won second place in the Senior Division Earth and Space Sciences at the Colorado State Science and Engineering Fair Saturday. She was recognized by the Colorado Mineral Society, the Rocky Mountain Association of Geologists, and the American Institute of Professional Geologists. She received the Naval Science Award and the NASA Earth Science System Award. These are two prestigious awards.

She has been selected to compete at the International Science Fair where 72 countries compete. This will be in Phoenix next month. Please send congratulations to Jenna who has worked so very hard on her science fair project about a sandstone in the Pikes Peak region. She is in 9th grade. {note: I will write a detailed press release for publication in a few days}

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Steve

Pebble **Pups** meeting day is the **third Wednesday of each month**, and meetings are at the PPHS Museum in Florissant from **6:00 to 6:45 PM**

✓ ✓ **Membership in the Lake George Gem and Mineral Club is now closed for 2016. If you haven't renewed, your next chance to reconnect will be next January.** You are welcome to attend regular Club meetings, but field trips are open only to current members.

✓ ✓ And here is the latest installment of "Bench Tips" by Brad Smith (www.BradSmithJewelry.com):

DRILLING SMALL ITEMS

Small pieces need to be held securely while drilling to prevent them from spinning if the drill catches. Having sliced my fingers occasionally in my younger days, I avoid band-aids now by using flat-jaw pliers or a ring clamp. Pliers also save you if the piece gets hot. Put a little tape over the jaws of the pliers if needed to avoid scratches.



DRILLING A STONE

One of the things my students often ask to do is drill a hole through a piece of gemstone. The usual thought is to get a diamond drill, but I've been disappointed with them. I think the reason is that the tip of the drill is just pivoting in the hole and does not cut well. When it looks like the drill isn't cutting, the tendency is to push with more force. The drill gets hot, and the diamond grit falls off.

A much better approach is to use a core drill. This is a small hollow tube with a coating of diamond grit at the business end. The diamonds easily carve out a circular arc without undue pressure or heat buildup.

Core drills are readily available from lapidary and jewelry supply companies. They come in sizes as small as 1mm and are very reasonable in price. For instance, a 2mm diameter drill is about \$6.

Chuck up the core drill in a drill press, Dremel or Foredom and be sure to keep the drilling zone wet to cool the

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tool and to flush out debris. Also, if you're drilling a through hole, go very easy on the pressure as the drill is about to cut through. Otherwise you will usually chip off some of the stone surface around the hole.



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"Bench Tips for Jewelry Making" and "Broom Casting for Creative Jewelry" are available on Amazon

Notes from the Editor

Bob Carnein, Editor

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I seem to have spent the last 2 weeks getting nothing done but shoveling snow. As a result, I didn't write anything for this space. However, **Paul Combs** sent this interesting article about a project to drill into the underwater crater thought to have been caused by the asteroid impact that extinguished the dinosaurs (along with many other terrestrial life forms). Hope you like it.



Artist's depiction of the asteroid that crashed into Earth 66 million years ago leading to the demise of dinosaurs and 75 percent of species at the time. An international research team is collecting new samples to analyze why life persisted following the impact.

Credit: NASA Blueshift

On April 14, scientists will begin collecting new samples from the Chicxulub impact crater, remnant of an asteroid that crashed into Earth 66 million years ago and caused the extinctions of 75 percent of the planet's species, including the dinosaurs. The international team includes two Penn State researchers, Tim Bralower, professor of geosciences, and Heather Jones, Ph.D. candidate in geosciences.

Scientists theorize that a 6-mile-wide asteroid struck the Earth on Mexico's Yucatan Peninsula, resulting in a chain of events—global darkness, nuclear winter, ocean acidification and rampant wildfires—that wiped out nearly all life. The asteroid struck Earth with more than a billion times the energy of an atomic bomb, researchers estimate, and melted the rock at ground zero.

The International Ocean Discovery Program (IODP) research team hopes to learn new details about how life persisted following the impact. Team members also hope to better understand the mechanics of the crash, such as how rapidly temperature changed after impact, the angle at which the asteroid struck the Earth and how the bedrock behaved under such intense pressure.

Stationed on a drilling rig 25 miles off the coast of Mexico, the team will collect samples from the circle-shaped perimeter, known as the 'peak ring,' of the Chicxulub impact crater. The Chicxulub crater is the only known impact crater on Earth with an intact peak ring, and it is the only crater that has been linked to a mass extinction.

"I'm excited to be part of the project because it's the first time that anyone has collected samples from the crater's peak ring," said Bralower. "Deep underneath the peak ring is a geological layer called the melt layer. This layer shows evidence of widespread melting at the time of the crash, and this melting was a critical part of the extinction process because it led to a global rainout of tiny melt droplets that caused wildfires."

Bralower will be on board the drilling rig to conduct initial analyses of the samples as the IODP team digs. Once the cores have been extracted, the team will transport them to IODP's Bremen Core Repository in Germany. Jones will travel to Germany in September to help the team conduct a detailed analysis of the cores.

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To collect their samples, the team has to dig through layers of sediment that have built up on top of the melt layer. They are looking for signs of life and other geological information from between 55 and 66 million years ago. They will first dig 0.3 miles under the ocean floor to the layer of sediment that was deposited roughly 55 million years ago. From there, they aim to collect cores dating back to 66 million years ago, and this is where Bralower's expertise comes into play. He will conduct microscopic analyses on each sample collected at 20- to 30-foot intervals to date the time period of the sediment. To access the sediment deposited 66 million years ago, the team will need to drill a total of 0.5 miles under the sea floor.

"This is really my bread and butter," Bralower said. "Every time we bring a new piece of core up, we'll take a crumb and look at it under a microscope. Based on the fossils we find, we'll know how old the sample is."

Bralower will be looking specifically for phytoplankton fossils because they are easy to prepare and analyze on the ship. Because phytoplankton are at the bottom of the food chain, analyzing their distribution through the 11-million-year interval could help researchers better understand how quickly life recovered after the impact.

The international team includes scientists from Mexico, Japan, Australia, Canada, China and six European countries.

This work is being supported by the International Continental Scientific Drilling Program and the European Consortium for Ocean Research Drilling.

Note: The above post is reprinted from [materials](#) provided by [Pennsylvania State University](#).



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FRI.- SUN. JUNE 3rd-5th, 2016. FRI & SAT 10-5, SUN 10-4
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2017 Membership Application, Lake George Gem & Mineral Club

Box 171, Lake George, Colorado 80827

www.LGGMClub.org

Date: _____/_____/20____

Name(s) _____

Address _____ City _____ State _____ Zip _____

Telephone () _____ - _____ Email (please print) _____
(required to receive newsletter and field-trip info)

Names/ages of family members (if family membership) _____

Dues for Jan 1 through Dec. 31 each year are as follows (please check membership type):

___ Individual (18 and over).....\$15.00

___ Family (includes dependents under age 18).....\$25.00

Dues are due on or before March 31. Members with unpaid dues will be dropped from the roster on April 1.

I agree to abide by the Club constitution, by-laws, and rules regarding field trips and club claim visits.

Signed _____ Date: _____/_____/20____

I am or have previously been a member of Lake George Gem & Mineral Club. Yes ___ No ___

My interest areas include (check all that apply): Minerals___; Fossils___; Lapidary___;
Micromounts___; Colorado geology___; Pebble Pups (ages 7-17)___; Mining History___;
Crystallography___; Other _____

I am willing to give a talk/presentation to (the Club) or (Pebble Pups) on _____
_____ and/or lead a field trip to (list) _____

I am willing to participate/help in the following ways (can choose more than one): Club Officer___;
Newsletter Editor/Writer___; Local Show/Show committee___; Nominating Committee___;
Winter Programs Committee___; Field Trips___; Art (badges)___; Membership Coordinator___;
Website Assistance___; Pebble Pups___; Other (be specific)_____

Questions about the Club or Activities? Visit the website or contact a Club officer.

Updated 05/01/2015

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Lake George Gem & Mineral Club
PO Bo 171
Lake George, CO 80827



The Lake George Gem and Mineral Club is a group of people interested in rocks and minerals, fossils, geography 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 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).

Our Officers for 2016 are:

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