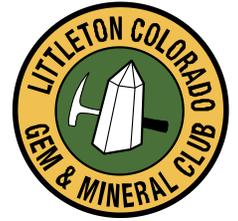


LGMC September Meeting



Time and Place:

September 20, 7:30 PM, **St. Philip Lutheran Church, 7531 S. Kendall Blvd., Littleton, CO 80128**

We have no one signed up for refreshments this meeting so if anyone would be willing to bring something, anything will be appreciated. Thanks

Program Speaker: **David Alexander**

Topic: We will be visiting Wigwam Creek area claims on a field trip with the Lake George Gem and Mineral Club on Sept 28. The Wigwam Creek district has a rich selection of pegmatite minerals. In preparation, Dave will discuss how to generally prospect pegmatite minerals with examples specific to these claims, where the hot spots are and what to look for.

NEW MEETING LOCATION!!!!

Meeting Date **Sept. 20, 2019**

St. Philip Lutheran Church

7531 S. Kendall Blvd., Littleton, CO 80128



NEW SILENT AUCTION LOCATION!!!

Silent Auction Date **Oct. 19, 2019**

Heritage United Methodist Church

7077 S. Simms St., Littleton, CO 80127

Presidents Message

September 2019

I hope that everyone has had a fantastic summer visiting family, travelling the countryside, camping and of course rockhounding along the way. I know that it's been a busy summer but we're about to begin the busiest part of our club calendar.

The big event for the year, The Denver Gem and Mineral Show, is this week, Sept 13th-15th at the Denver Mart (451 E. 58th Ave, 80216, just east of I-25 at Exit 215). The show, which began in 1967, has grown over the years into the second largest show in the United States. The Littleton Gem & Mineral Club is one of eight local clubs who organize and host the show using only club volunteers who have made this show such a success. Our club, as usual, will have a booth at the show that will showcase Fluorite specimens in our case (thank you Faceter & Cabber Group) and a faceting demonstration. Stop by and say "Hi" to the booth volunteers while you're at the show. Also, check out our Club Prospector Case on the main floor with our top 3 field collected specimens. We are competing against several other clubs for the best Club Prospector exhibition case. Jim Hooten and Nicole Bolger have been working hard to put together a fantastic display of minerals and creativity.

While at the show, also remember to look for that special mineral on sale to enter in our November contest for the best minerals purchased at the show. There are prizes for the best mineral under \$20 and best mineral over \$20. Visit the dealers, many of whom are club members, shop wisely and have a great time!

In October, we will hold our Annual Club Silent and Verbal Auction. This year it will be held at Heritage United Methodist Church (7077 S. Simms St., Littleton, 80217). The auction is always a great place to look for field collected specimens, faceted stones, lapidary, and equipment at very reasonable prices. All club and non-club members are encouraged to participate and attend. Details about the auction times and procedures are provided below in this newsletter.

We are also starting the search for the next round of club officials. We are looking for members to actively participate in the organization and function of the club. We will be looking for nominations over the next month with official nominations at the auction meeting and voting at the November meeting. We will be voting for a President Elect, and Trustee (2 years) for 2020. We are also recruiting for someone to train for the Field Trip Chairperson and apprentice under Jim Hooten. Jim has done a fantastic job as our Field Trip Chair and organizing our trips every year. He is willing to share his knowledge about the collecting localities, historic claims and how to organize field trips. We are also looking for an enthusiastic, energetic person to lead the Junior Rockhounds. I'm committed to continue building our program and will work closely with the leader to make our program fun and relevant to our young members.

Last but not least, don't forget to get that awesome field collected mineral from the summer scrubbed, cleaned and polished for the Odiorne Award contest in November. I've heard rumors around the club that there have been several beautiful pieces found this summer.

See you at the meeting at our new location on the 20th.

Ron Wankner

President LGMC

Two Field Trips left this Year:

Sat., Sept. 21, Honey Bee/Queen Bee Club Claims. Exchange Field Trip with Lake George Gem & Mineral Club.

Trip Leader Jim Hooten. Amazonite, smoky quartz, fluorite, etc. Inviting Lake George Members to our Club Claims, and next week, they are inviting us to their Club Claims (see next field trip description). **Meet at 9:00 AM, at the Community Center in “downtown” Harris Park.** Allow 1-1½ hour drive from Denver. Cars will then caravan from there to the collection site (approx. 1½ miles). Easy walk from parking area. Sign-up sheet and Map at September meeting.



Directions: To get to Harris Park, take U.S. Hwy 285 southwest from Denver approximately 30 miles. Go through Conifer, then Pine Junction, then about another 4 miles until you come to a stop light at the junction of Hwy 285 and State Road 43 (may also be called 43A), and drive north about 10 miles to Harris Park. The only potentially confusing point is where Road 43 turns to road 47, maybe 6-7 miles up the highway. Just stay on the primary paved road (**keep to right**) and it will take you to Harris Park. The Community Center is the only “large” building around. Everything else is individual homes/cabins.

Dist = 50 mi.
None

4WD = Opt

Kids = OK

Tools = D, H

Fee =

Sat., Sept. 28, Patience/Piety Mining Claims (aka Wig Wam Claim). Exchange Field Trip with Lake George Gem & Mineral Club.

Trip Leader Dave Alexander (Lake George). Smoky quartz, clear-drusy quartz, multi-colored fluorite, amazonite & clevelandite feldspar, topaz. Level of difficulty: EASY. It is Lake George’s turn to host our Club members at their claim. **Meeting Time: 8:45 AM. Meeting Place: Parking lot immediately north of Decker’s Corner Restaurant in Deckers, CO.** If you’ve never been to Deckers, you can’t miss it. It’s located at the intersection of Platte River Road (CR 67) and Deckers Road (CR 126), in Jefferson County. Best way to get there is down Hwy 285 (southwest from Denver) and turn left (south) at Pine Junction. Give yourself 1 1/2 to 2 hours from Denver. Caravan will leave at 9:00 AM, and Dave will lead us to the claim (10 miles, about a 35-minute drive). Restroom facilities at the parking lot, but none at the claim, so come prepared. As the 2 claims are surrounded by other claims, Dave will point out the boundaries and show participants around the claims, where the “hot spots” are, and how to generally dig in the area.

Bring plenty of water, lunch, and a good assortment of light and heavy tools, including a shovel, 3-prong rake and pry bar.

Dist = 65 miles
None

4WD = Opt

Kids = Sup

Tools = D, H

Fee =

Field Trip Pictures

Sat., Aug 10 Sedalia Copper Mine



Jim Hooten at the Sedalia Copper Mine. Many thanks to Jim for all the wonderful field trips this year!

Sat., Sept. 7, Purple Dragon Claim (aka Red Feather Lakes)



Jeremiah and Teri Ann

Christine (left) and Carol (right) were the winners on finding the nice specimens.

Dan and DJ



Bob

Hedy

Olivia

Gail

Denver Gem & Mineral Show Mini Report

50th Anniversary Show August 2019

IT'S SHOW TIME!! The Denver Gem & Mineral Show will take place in just a few weeks. Remember the dates September 13 - 15. The venue is the usual Denver Mart, located at 451 E. 58th Avenue (I-25 & 58th, Exit 215 on I-25). The show theme is "Canada Unearthed". The Show Chair is George Daggett, 303-453-9651 or geoddaggett@hotmail.com. The show is always fabulous and we hope every club member is looking forward to participating in the show in some way.

There are ample opportunities to participate in the show. Maybe you are entering an exhibit in the show. It's not too late! The deadline for both competitive and non-competitive exhibits is August 31, 2019. For more information and an application form, contact Larry Havens, 720-401-6543, or lwrnchavens@comcast.net or lghavens4@gmail.com. The deadline for both the Prospector and Junior Prospector trophies is September 6, 2019. So there is still a little time but not much.

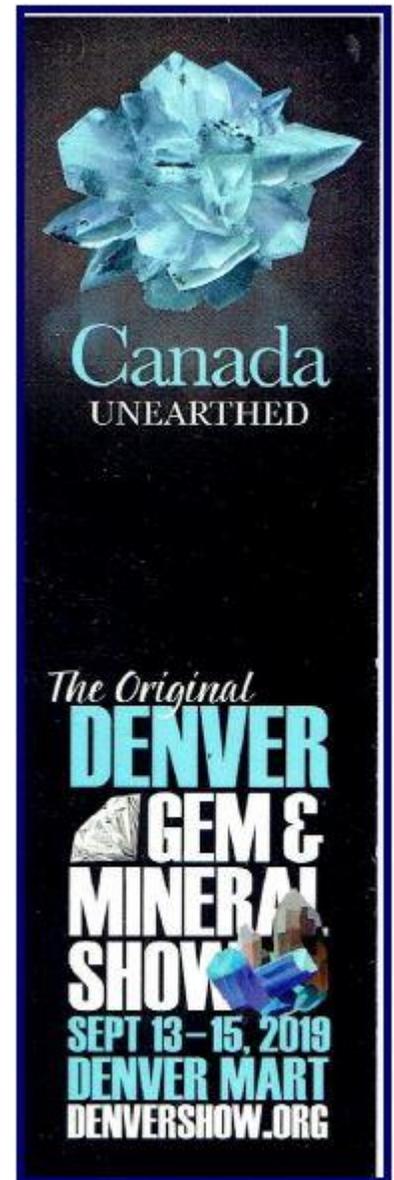
There are also ample opportunities to volunteer for the show. The area that needs the most volunteers is Admissions, which is selling and taking tickets. If this suits your talents, contact Kathy Honda at katherine.honda@ucdenver.edu. Another area that needs volunteers is set up on Wednesday. For this, contact Linda Burns at burns.henley@gmail.com or 303-263-0391. Then there is show take down on Sunday after 5 p.m. Take Down Chair Dan Wray would be very appreciative of your help. Contact him at Daniel_Wray@comcast.net or 303-922-0905. Security Chair Amber Brenzikofer needs volunteers as well. Contact her at amberbrenzikofer@gmail.com or 720-480-5234. The Hospitality Room is the place where volunteers can find a relaxing break and refreshments. But, of course, volunteers are needed to staff the room with beverages and snacks. If you wish to help with this, contact Kevin Larsen at mail@klarsens.net or 303-429-6976. Another area that is fun to work is the Grab Bag, Pins and Poster sales table. At this table you are dealing mostly with children, who are trying to select that perfect grab bag. Joe Walkowich is the Chair and would love to have your help. Contact Joe at joewcai@yahoo.com or 720-272-8806.

Remember the show is not all work. There are perks to volunteering. You will receive free admission to the show, access to the Hospitality Room, a complimentary delicious breakfast on Sunday for \$1, a chance to enjoy all the features of the show, plus the satisfaction of knowing you helped put on the best show in the country.

If you have any questions about the show, contact your club representative on the Show Committee; each club has one. They are: CMS - Amber Brenzikofer; Flatirons - Gerry Naugle; FM - Larry Havens; Guild - Kathy Honda; Littleton - Lynette Warren; NJeffco - Ron Knoshaug; RAMS - Judy Knoshaug; and WIPS - Nancy Kimber.

Thanks for reading the min report and hope to see you at the show.

Respectfully submitted, Judy Knoshaug, Secretary



DGMS Littleton Club Booth News

Do you have any polished rocks you don't need anymore? Are you just emptying your tumbler?

Think about donating those polished rocks to the club for a kid's give-away at our club booth. You can bring any you have to the booth at the show.

While you're at the show, sit and chat for a while with those staffing the booth and with visitors. While you are there you can try your hand at faceting and maybe twist some wire into a cute, easy ring.

John Kleber

Grab Bag News Update

We had a wonderful turnout for our picnic on August 19, 2019. There was a lot of yummy food and we filled our 500 grab bags with the 5000 specimens in record time.



Thanks to you all who have helped with the grab bags this year, whether it be with donations, filling specimen bags, making grab bags, filling grab bags or whatever. Our success was only possible because your contributions from the wonderful members of the Littleton Gem and Mineral Club.



The picnic grab bag stuffing went very well with many people helping with the stuffing line. Several others put specimens and labels in ziplocks. Thank you all.

We received many, many donations of specimens for future grab bags. I probably have forgotten someone, but want to remember to thank Tammy Jacobs, Carol Nielsen-Alt and Ron Alt, Sue Lemieux, Jim Hooten, Lesley Sebol, Kent Havens, and Lynette Warren for bringing grab bag donations to the picnic.

Bring any grab bag stuff you may have; either rocks, bagged specimens, or supplies to the next club meeting. I'll also have specimens you can pick up to bag this fall.

John Kleber

The Bag Begger

Selected upcoming LGMC and Earth Science Events

Sep 13-15 **Denver Gem and Mineral Show** at the Denver Mart, 451 E. 58th Avenue (I-25 & 58th, Exit 215).

Tue, Sept 17 **Faceters and Cabbers** - Faceters and Cabbers group will meet on Tuesday, September 17th, which is after the DGM Show. We will share and discuss our creations and other items. The theme of this meeting will be Amber and Topaz. All Littleton members and guests are welcome to join us. If you are planning to attend and not on our email list, send me an email at jkleber@att.net for any last minute updates.

Fri Sept 20 **LGMC September Meeting**, 7:30pm, don't forget we are at our new location, **St. Philip Lutheran Church**, 7531 S. Kendall Blvd., Littleton, CO 80128.

We have no one signed up for refreshments this meeting so if anyone would be willing to bring something, anything will be appreciated. Thanks

Sat Oct 19 **LGMC Silent Auction**, don't forget the new location for the auction is at **Heritage United Methodist Church** 7077 S. Simms St., Littleton, CO 80127

Junior Rockhounds

Sept 2019

The topic of the September Meeting will be Section 8.3- Take a Field Trip. This is the 3rd requirement of three for completing the Field Trip badge. The meeting will occur after the Refreshment Break. Junior Rockhounds will share their rocks, pictures of their field trip(s) and discuss what they liked about their trip(s). We will also discuss ideas for future field trips.



If your children or family want to join the LGMC Junior Rockhounds and receive the program materials send an email to rwankner@msn.com.

LITTLETON GEM & MINERAL CLUB SILENT & VERBAL AUCTION

Saturday, October 19, 2019

Note the NEW LOCATION

**Heritage United Methodist Church,
7077 S. Simms Street
Littleton, CO 80127-3241**



**Seller set up starts at 11 AM,
Silent auction starts at Noon,
Verbal auction starts at 1 pm;
Checkout starts at 3:30 pm**

Bring your minerals, gems, jewelry, fossils, books, and equipment to sell.
Club retains 20% commission. Non-club members are limited to 2 flats.
Payment is by cash or check.

Email Lesley Sebol at Lesleysebol@gmail.com to pre-obtain a seller/buyer number or get it at the door.

LGMC Auction

On October 19, 2019 the Littleton Gem and Mineral Club will be having its auction at a new location, Heritage UMC, 7077 S. Simms St., Littleton, CO 80127

The auction consists of a Verbal Auctioneer Auction with bidding on a variety of unique and beautiful specimens starting around 1:30 and a Silent Auction for individual bidding on minerals, gems, jewelry, fossils, books, equipment, and more, getting underway at 12:00.

We are having potluck for food. Last names beginning with A-L bring a desert and M-Z bring a side dish.

Silent Auction Procedures:

Check-In

Bidders and Sellers will need to register their names (print and sign), addresses, Club Affiliation, and phone numbers at the check-in table and will be assigned a seller/bidder number. Check-In starts at 11:00.

Sellers

Sellers are to make up auction slip/s for the items they will be selling, White-Regular Silent Auction Items and Blue-Kids Table Items. This can be done in advance from the auction slips printed in the Highlights Newsletter. Cardboard flats will be available for Seller's items to be placed on the silent auction tables. Non-Littleton Club Members are limited to two flats. The auction bidding slip needs a legible good description of the item/s along with seller's number and minimum bid and then placed with the item for sale.

Sellers receive 80% of the purchase amount for items on white slips. The club receives 100% of the purchase amount for all items from the children's table and verbal auction items.

Bidders

By bidding in the Littleton Gem and Mineral Club's silent and verbal auctions, each bidder agrees to the auction rules listed herein.

The Silent Auction bidding starts at 12:00. Bidders will need to list their number and bid on the bid sheets for the items they wish to purchase. Bidders must use their bidder number on the bid sheet for their bid to be valid. No bidding increments less than \$1.00. Tables will close at given time intervals with an order determined by a blind draw.

Check-Out

Check-out will be done after all tables are closed in order to collect all winning bidder's items before payments are made. Check-Out time will be approximately 3:30. Items that have no-bids will be available in an area for pick-up of Seller.

Winning bidders will pick up their items sorted by their bid number. Items will be taken to a cashier for payment. Payment for items purchased must be made in full on the night of the auction to the cashier. Please note that payments must be made in CASH or CHECKS - **NO CREDIT CARDS**.

All sales are final. There will be no exchanges or refunds unless otherwise noted. All items are "as is."

The purchaser must pick up all items the night of the auction, unless special arrangements are made. Any item left unclaimed, without prior arrangements, will be sold and proceeds will go to the Littleton Gem and Mineral Club.

The Littleton Gem and Mineral Club reserves the right to add or withdraw items, without notice, to or from the auction.

Unless otherwise specified, any and all auction gift certificates must be used within one year of the date of the auction.

Each person bidding assumes all risks and hazards related to the auction and items obtained at the auction. Each bidder agrees to hold harmless from any liability arising indirectly from Littleton Gem and Mineral Club, their elected and appointed officials, members, the auctioneer(s), the event organizers, sponsors, and/or volunteers connected with the auction.

We are looking for help with the auction

If you can give us a hand in any of the following areas please contact Lynette Warren at 303-956-4634, or send an email to flywithle123@comcast.net.

Food Set-Up and Clean-Up – Set up food on tables & clean up when done. Fill drink containers.

Set-Up – Set up Tables and Chairs for Check-In, Silent & Verbal Auction Tables, Meeting Chairs, Sorter Tables, Check-Out Tables and Chairs, Food Serving and Eating Tables and Chairs.

Audio Set Up – Set up microphone with PA system.

Check-In – Check in Bidders and Sellers assigning Bid Numbers. Get names, signatures, addresses, Club Affiliation's, and phone numbers. Check that writing is legible.

Table Closers – Announcement of table closing on PA system. Record winning bid amounts and winning bidders number on bid slips using assigned markers. Take auctioned material boxes to Sorters. Take boxes of no-bids to seller pick-up table.

Sorters – Pre-number buyer boxes with bidders numbers. Keep extra number slips and markers for duplicate boxes. Sort material brought in by Table Clearers. Retrieve Buyers Boxes for Check-Out.

Check-Out - Four pairs are asked to check out the buyers, total up each buyer's items and collect the money (cash or check, no credit cards). You can bring your own calculator and extension cord if you wish.

Clean-Up – Table and Chairs returned to their original storage place. Clean up areas used. Take trash to dumpster. Return audio equipment.

The schedule below is approximate and may need to be adjusted as the day goes on.

10:00 Setup-Tables, Chairs, Audio, Food & etc.

11:00 Buyer/Seller Check In & Set Up

12:00 Silent Auction Start/Food

1:00 Business Meeting

1:30 Verbal Auction Items

2:30 Closing Tables

3:30 Check Out

3:30-5:00 Clean Up

5:00 Finish

Calendar of Coming Earth Science Events!

Sept. 11-14, Denver Fine Mineral Show, Denver Marriott West, 1717 Denver West Blvd.; see <http://finemineralshow.com/denver/>

Sept. 13-15, 52nd annual Denver Gem and Mineral Show, Denver Mart, 451 E 58th Ave., Denver, CO. **Minerals of Canada** is the 2019 show theme. See <http://denvershow.org>

Thurs., Sept. 19, 5:30 p.m., Colorado Scientific Society hosts an evening of short oral talks and geology/earth science poster presentations; all are invited and welcome. At the Arbor House, Maple Grove Park, 14600 W. 32nd Ave., Golden (Applewood area). Social time, complimentary refreshments, and poster viewing, 5:30 p.m.; 7:00 p.m., oral presentations (4 15-minute talks). For more info see <https://coloscisoc.org/>.

Sat., Sept. 28, 9 a.m. – 3 p.m., “Scout Day” at Dinosaur Ridge. “Join us for Scout Day at Dinosaur Ridge. Scouts of all ages will have a fun-filled day of geology and paleontology. Cub Scouts and Webelos will be able to earn belt loops and academic pins. Boy Scouts will be able to earn their Geology Merit Badges. There will be amazing vendors such as: Mr. Bones, Western Interior Paleontological Society, USGS, Wildlife Experience, Rocky Mountain Bird Observatory plus Dinosaur Ridge volunteers at the paleontological sites along the Ridge AND manning hands-on activities such as gold panning, metal detecting, track painting, and fossil sifting at our Main Visitor Center. For more info, and to register in advance (\$6 for Scouts, \$5 for non-Scout accompanying friends/family) see <http://dinoridge.org/scout-day/> .

Sat.-Sun., Oct. 5-6, the Colorado Scientific Society will host a weekend field trip, “**Geology and Geoh heritage of the Florissant-Cañon City-Florence area**”. It will include Florissant Fossil Beds National Monument; Skyline Drive by Cañon City; Royal Gorge; the Florence coal, oil, and gas basin; the Cope-Marsh quarries at Garden Park; and the Cripple Creek and Victor Gold Mine. You must be a CSS member to take part, but anyone may join the Society if they wish to go on the trip; see <http://coloscisoc.org/> .

Tues., Oct. 8, 7:00-9:00 p.m. Western Museum of Mining and Industry Speakers' Bureau Lecture: " **Cripple Creek's Cresson Mine: The Untold Stories**", by Ben Elick. WMMI, 225 North Gate Rd., Colorado Springs. \$5 per person, free to museum members. RSVP to 718-488-0880 or rsvp@wmmi.org; to book in advance: <https://fareharbor.com/embeds/book/wmmi/items/108438/calendar/?flow=41147>

Oct. 13-19 is the annual **Earth Science Week**. I (Pete Modreski) will be leading a geology hike/field trip for the public sometime during or around this week--details TBA.

Sat., Oct. 19, 9 a.m. – 3 p.m., “Girl Scout Day” at Dinosaur Ridge. An event similar to Scout Day on Sept. 28; more info about this day will be forthcoming.

Mon., Oct. 28, 3:00-4:00 p.m., Denver Museum of Nature & Science Earth Sciences Colloquium, **Physical processes in carbonate sediments: Ooids, mud, hurricanes, and more**, by Lizzy Trower, CU Boulder. All are welcome. VIP Room at DMNS.

*P.S., **Volunteers are sought*** to help at two activities at the Denver Gem and Mineral Show, Sept. 13-15 at the Denver Mart: The “**Kid’s Corner**” with hands-on rock and mineral specimens, sponsored by the U.S. Geological Survey, and “**Minerals that Do Things**”, hands-on demonstrations organized by Dr. Andrew Sicree of State College, PA. If you volunteer to help at either booth for a morning or an afternoon, you’ll receive complimentary admission to the entire show. You may contact Pete Modreski, pmodreski@usgs.gov, about helping at either, and I’ll put you on my own volunteers’ schedule, or pass your name on to Andrew. Thank you!

For more lecture series during the year see:

Colorado Beer Talks (2nd Tuesday, 6-8 p.m.), Windy Saddle Café, 1110 Washington Avenue, Golden, Golden's grassroots version of TED talks, Expand your mind with a beer in your hand", <http://goldenbeertalks.org/>

Colorado Café Scientifique in Denver, monthly lectures on science topics held either at Blake Street Station or Brooklyn's, Denver; open to the public, no charge other than refreshments you may choose to purchase; see <http://cafescicolorado.org/>.

Colorado Scientific Society (3rd Thursday, 7 p.m.), see <http://coloscisoc.org/>. Meets at Shepherd of the Hills Church, 11500 W. 20th Ave., Lakewood CO, except when noted.

CU Geological Science Colloquium (Wednesdays, 4 p.m.) see <http://www.colorado.edu/geologicalsciences/colloquium>

CSU Dept. of Geoscience Seminars (Fridays, 4 p.m.), see <https://warnercnr.colostate.edu/geosciences/geosciences-seminar-series/>

Van Tuyl Lecture Series, Colorado School of Mines, (Thursdays, 4 p.m.): <https://geology.mines.edu/events-calendar/lectures/>

Denver Mining Club (Mondays, 11:30), see <http://www.denverminingclub.org/>.

Denver Museum of Nature and Science, Earth Science Colloquium series, 3:00-4:00 p.m., VIP Room unless noted, day of the week varies. Museum admission is not required; see <http://www.dmns.org/science/research/earth-sciences/>

Denver Region Exploration Geologists Society (DREGS; 1st Monday, 7 p.m.), <http://www.dregs.org/index.html>

Florissant Scientific Society (FSS); meets monthly in various Front Range locations for a lecture or field trip; meeting locations vary, normally on Sundays at noon; all interested persons are welcome to attend the meetings and trips; see <http://www.fss-co.org/> for details and schedules.

Nerd Night Denver is a theater-style evening featuring usually 3 short (20-minute) TED-style talks on science or related topics; held more-or-less monthly at the Oriental Theater, 4335 W. 44th Ave., Denver; drinks are available; for ages 18+. Admission is \$6 online in advance, \$10 at the door. See <https://www.nerdnitedenver.com/>.

Rocky Mountain Map Society (RMMS; Denver Public Library, Gates Room, 3rd Tuesday, 5:30 p.m.), <http://rmmaps.org/>

Western Interior Paleontological Society (WIPS); beginning January 2019, WIPS will meet on the 1st Monday of the month, 7 p.m., at Lowry Conference Center, 1061 Akron Way, Denver. See <http://westernpaleo.org/>.

Thank you once again to Pete Modreski for sending us all the upcoming science events!

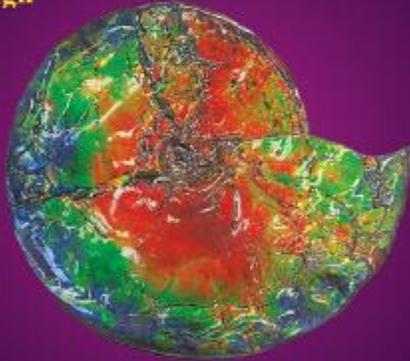
Colorado Mineral & Fossil Show

September 6 – 14, 2019

*Crowne Plaza DIA, 15500 E. 40th Ave., Denver, CO 80239
(Northeast corner of I-70 and Chambers Rd.)*

Hours Monday – Saturday Wholesale 9AM-6PM – Retail 10 AM-6PM
Sunday 10AM-5PM
Closing Day Saturday September 14, 2019 10AM-4PM

**Minerals, Fossils, Meteorites, Tektites
Carvings, Cutting Rough
Cabochons, Gems
Jewelry & More
Mineral Drawings
Guest Speakers
Free Admission
175 Quality Retail &
Wholesale Dealers**



**\$100 SHOW DEALER
VOUCHER GIVEAWAYS
EVERY HOUR ON
OPENING DAY
10:00AM - 4:00PM
YOU NEED TO BE PRESENT
TO WIN**



www.RMGMPROMOTIONS.COM

Placenticeras costatum
Alberta, Canada
Photo courtesy of
Korite International and
Canada Fossils



Canada
UNEARTHED

The Original
DENVER
GEM & MINERAL
SHOW
SEPT 13-15, 2019
DENVER MART
DENVERSHOW.ORG

Geology Corner

Blue, Blue, My Quartz is Blue

I've been fascinated with blue quartz ever since I was youngster who picked up a chunk in the Blue Ridge area of northern Virginia. The color was deep to sky blue, and seemed to change in hue as I tilted it. Like most blue quartz, it was not gemmy and was cross-cut by many fractures stained with iron oxides. It was special to me because there aren't many blue minerals and I had never found one before.



Blue quartz occurs at many localities. One famous localities is in Llano County Texas where it is found as small doubly terminated crystals in a rhyolitic porphyry called, informally, llanoite. The crystals weather loose and can be collected easily. Slabs of this rock studded with blue crystals are cut and polished. Blue quartz is found in Wisconsin, most notably in a diorite exposed by the Dairyland Power Dam near Tony.

The cause of the blue color is reasonably well known. Blue quartz is crowded with tiny grains of minerals rutile (TiO_2) or ilmenite (FeTiO_3). There may be as many as 2 million of these included crystals per square centimeter, scattered uniformly through the quartz. Because the crystals are so tiny, they make up only 0.02% of the volume of the quartz. Light entering is scattered by these tiny particles, the scattering most pronounced for blue light. The light reflected the eye is blue. This effect is also responsible for the of the sky.



known.
such as
many as 2

Even so,
about
the quartz
being
back to
blue color

Light shining through the blue quartz from behind is red (the complimentary color to the blue), because the back light is not scattered and reflected. This is what occurs in the sky at sunset.

yellow or

Titanium is also responsible for the color of rose quartz. Here, however, the titanium occurs as the ion Ti^{+4} within the quartz structure, not as grains of other minerals. In this form, the titanium absorbs all colors except the rosy pink one we all know so well.

Artificial blue quartz can be made by including cobalt impurities in quartz grown in the laboratory. Unlike the blue quartz in nature, the artificial crystals are deep royal blue and can be grown in large flawless masses which can be readily faceted.

Natural blue quartz can rarely be used for lapidary purposes, but it is wonderful experience to find it and see what looks like pieces of the clear blue sky embedded in the solid rock.

- Dr. Bill Cordua, University of Wisconsin-River Falls

References:

Fronzel, Clifford, 1962,, The System of Mineralogy, 7th edition, vol. 3, Silica Minerals, John Wiley and Sons Publishers, N.Y., 334 p.

Rossman, G.R., 1994, "Colored Varieties of the Silica Minerals" in Silica: Physical Behavior, Geochemistry and Materials Applications, edited by P.J. Heaney, C.T. Prewitt and G.V. Gibbs, Washington, D.C., Mineralogical Society of America, Reviews in Mineralogy, vol. 29, p. 433-468

Club Announcements

Welcome to our new members:

Kyle Kylander and Amanda Plume-Pentland, Teri Ann Kell and Jeremiah Clark



Moving? Change of Address, Email or Phone Number? Ready to go paperless? Please notify **Ian Duncanson** of any changes at idunc@q.com or 303-798-9174.

Club Vests Show your club support at the meetings and other events! **Ian Duncanson** has club vests available for sale. Price includes vest, sewed on club patch (on back) and a club pin

\$18 for small and medium sizes
\$19 for large and X-large sizes
\$20 for XX-large and XXX-large

Do you know someone who could use some sunshine? Nobody knows everybody. If you know of a club member or family who is having a health problem or other problem, and who could be encouraged by receiving a thinking-of-you card, please let us know so that we may encourage them. Send a note to our sunshine coordinator and let her know, **Lynette Warren**, flywithle123@comcast.net.



CAN WE BE FRIENDS?

Facebook Giveaways at the Denver Gem & Mineral Show!

To celebrate this year's "Canada Unearthed" theme there'll be a Selfie Station with Canadian photo props at our club table.

Groups or individuals can take a selfie and tag our page to be entered to win a special donated mineral specimen (stop by the booth to find out the prize)!

We will also be giving away mystery minerals to anyone that comes to our club booth and shows they LIKE and FOLLOW our page on Facebook already.

Hope you will join in the fun — and don't forget to tell your friends about our giveaways too!

See you on Facebook! Nicole Bolger

Thanks to everyone who contributed to the newsletter! ~Tammy

☞ **2019 Board of Trustees** ☞

President	<i>Ron Wankner</i>	303-618-5549
Vice President and Membership Chairman	<i>Ian Duncanson</i>	303-798-9174
Secretary	<i>Larry Havens</i>	303-757-6577
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Trustee (2 year term 2019 & 2020)	<i>Lynette Warren</i>	303-956-4634
Trustee (2 year term 2018 & 2019)	<i>Dan Lovitt</i>	303-791-3112

☞ **Chairpersons & Appointed Officers** ☞

Sunshine Chairperson	<i>Lynette Warren</i>	303-956-4634
Refreshments	<i>Anne Jenkins</i>	303-730-7696
Librarian	<i>Mary Davis</i>	303-680-5112
Historian	<i>Open</i>	
Facebook Editor	<i>Nicole Bolger</i>	720 344-5280
Hospitality	<i>Nick North</i>	303-840-1177
Grab Bags	<i>John Kleber</i>	720-851-8510
Web Administrator	<i>Gus Hansen</i>	480-489-3978
Show Committee Representative	<i>Lynette Warren</i>	303-956-4634
RMFMS & AFMS Representative	<i>Larry Havens</i>	303-757-6577
Denver Council Representative	<i>Nick North</i>	303-840-1177
Cabbers & Faceters Group	<i>John Revis</i>	720-569-6685
“ “	<i>John Kleber</i>	720-851-8510
Mineral Study Group	<i>Bob Zartman & Nick North</i>	303-973-0405

Meetings: The Littleton Gem & Mineral Club meets the third Friday of each month, September through May, at the St Philip Luthern Church, 7531 S. Kendall Blvd, Littleton, CO 80128. Doors open at 7:00 p.m. and the meetings begin at 7:30 p.m. All meetings are open to the public. Club and section meetings may deviate from their regular schedules due to holidays, shows, inclement weather, etc.

The Littleton Gem and Mineral Club is affiliated with the American Federation of Mineralogical Societies, The Rocky Mountain Federation of Mineralogical Societies, The Colorado Federation of Gem and Mineral Societies, and the Greater Denver Area Gem and Mineral Council.

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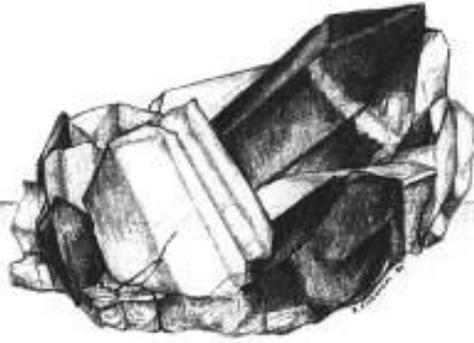
****The deadline for submissions is the 1st Friday of each month.** Please send your material by email to jacobstammy80@gmail.com.

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HighLites

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