
Littleton Gem and Mineral Club

April 2019 Newsletter.

LGMC April Meeting! Will be Friday, April 19th, at 7:30PM.



Guest Speaker - Dave Alexander

WHAT DO YOU NEED TO KNOW FOR SUCCESSFUL ROCKHOOUNDING AND PROSPECTING?

Countless miles of prospecting, sifting through long abandoned pits, reading everything I can find and asking questions to experts have all improved my success in finding crystals. This learning experience has been a slow but steady process — reinforced by getting out to the forest and moving a LOT of rock and dirt. I would like to share some tips and techniques I've accumulated through my experiences to hopefully expedite your learning curve; providing you with ideas and techniques so you are finding crystals with more frequency. This presentation will highlight what to look on the surface for when prospecting, how to dig test holes, how to identify and follow the trail to crystals, my essential tools and some examples of what I find along the way.

A little about me; I have always enjoyed digging holes and about 10 years ago I discovered that you could find treasures if you dug in the right places! I have no formal geology education but have a deep curiosity and passion for unearthing nature's treasures. I'm currently the Field Trip coordinator for the Lake George Gem and Mineral club. I write a blog documenting my hobbies (including rockhounding) <http://davealex.com>; have a YouTube channel featuring my crystal digging adventures and leftfield music endeavors (<http://youtube.com/obliqrecordings>) and enjoy photography and networking with other likeminded folks.

Letter from the President

Winter snow is slowly changing to spring rain and mountain snows are beginning to melt, it's time to start getting ready for field trip season! We'll soon hear the sounds of shovels, chisels and trowels working to unearth any hint of color, shape or unusual features. We've working on several things to help our members prepare for the upcoming digging season.

Jim Hooten, our Field Trip Coordinator, is diligently putting a list of field trips for the coming season. Jim has been working with our members, other clubs and claim owners to make arrangements at some of our favorite localities and also gain access to sites that we haven't visited before. He'll unveil our field trip list at next month's Founder's Day and Field Trip Sign-Up Meeting.

This month is the inaugural meeting of LGMC's Junior Rockhounds. The Junior Rockhounds will be an American Federation of Mineralogical Societies (AFMS) recognized group and follow the Future Rockhounds of America badge program. This month's topic will be "Field Trip Etiquette, Safety and Ethics" followed by "Field Trip Planning" next month. These topics will teach our young members the importance of safety and responsibility in the field, so they are prepared for their trips.

Also, our speaker this month, Dave Alexander, will share his experience along with some tips and techniques to use in the field that should help you find crystals with more frequency. Dave is a Field Trip Coordinator with the Lake George Gem & Mineral Club and has spent a lot of time prospecting in the pegmatites of the Pikes Peak Batholith.

I love spring not only because the outdoors come alive with sights, sounds, and smells again but it also stimulates my imagination about the possibilities of being outdoors doing the things I love. I hope that these programs are useful and provide some tips that make you more successful in the field.

Ron Wankner

President LGMC

Attention Club Members:

Once again a reminder that the Denver Gem and Mineral Show will be coming up soon this fall. The dates are September 13-15, 2019, located at the Denver Merchandise Mart, 451 E. 58th Ave. (exit 215 on I-25).

The show is run by volunteers and it takes lots of volunteers to put on the show. There are many easy jobs available and if you work at least 4 hours, your admission into the show is free on all three days.

We will be sending around a sign-up sheet at the meetings through May. The sign-up sheets will be forwarded onto the chair person in the fall. The chair person will get in touch with you as we get closer to the show date. For more information, please contact the chair person in charge of that area of interest to you. Many of you are new members to the club, this is an excellent opportunity to see, learn, and become part of the show.

Lynette Warren, Club Rep.

Club Booth News

A Plea for Polished Rocks!

It is very popular with kids, adults, and booth workers to give away polished rocks at our club booth at the DGMS and it offers a chance to talk to visitors about our club.

We may be close to running out of those polished rocks to give away!

I estimate that we have just about enough rocks for the 2019 show, but we could run out early. There are some very small rocks at the bottom of the box, but they seem too small for that give away and most are destined for grab bags, especially the indeterminate green ones!

So, if you have a tumbler and some rocks, please think about polishing some small rock to donate to the club booth free rock give away.

John Kleber

Denver Gem & Mineral Show Mini Report

April 2019

SHOW OFF YOUR COLLECTION

Many mineral and fossil collectors spend countless hours (and maybe a few dollars) building their collection. Some engage in serious study in their chosen subject, some specialize in one facet of minerals or fossils, some self-collect as much as possible, but most like to show off the collection they have built. You collectors are in luck! The Denver Gem & Mineral Show offers multiple opportunities for you to show off your collection. The competitive opportunities are summarized below.

The Best of Species competition is for minerals that are from Canadian localities, since "Canada Unearthed" is the theme for the 2019 show. An individual may enter only one specimen in each size or type category. Specimen quality is judged on the basis of established standards for the species and locale. The categories are:

- Thumbnail - specimen fits in a 1" cube as displayed
- Toenail - specimen fits in a 1.5" cube as displayed
- Miniature - specimen fits in a 2" cube as displayed
- Cabinet - specimen fits in a 5" cube as displayed
- Oversize Cabinet - specimen must fit into standard 4 foot case
- Self-Collected - specimen personally collected by exhibitor
- Lapidary/Jewelry - cabochon, sphere, faceting, intarsia, jewelry, etc. featuring theme minerals. Workmanship must be that of the exhibitor.

The Richard M. Pearl Trophy - This trophy is awarded to the exhibitor of the best, crystallized mineral specimen entered. The competition is open to all exhibitors. Entries may be any crystallized mineral, thumbnail or larger, from any locality; the exhibitor must own the specimen. Quality, on a worldwide basis, will be the only criterion by which each mineral specimen will be judged. The exhibitor is limited to three entries for this trophy in a given year. A specimen is eligible to win this trophy only once. An exhibitor shall not be eligible to enter this competition for two years following winning this trophy.

The Prospector Trophy - This trophy is awarded to the best field collected mineral specimen found during the year preceding the opening date of the 2019 show. The specimen(s) entered must have been personally (and actively) collected in the field by the exhibitor and may be any species, from any locality and any size. An exhibitor may enter up to three specimens. Eligibility is strictly limited to amateurs. Specimens collected from fee sites are allowed.

The Junior Prospector Trophy - This competition follows exactly the same guidelines as those of the Prospector competition in the paragraph above. The entrant must be between the ages of six and fourteen. Three mineral specimens (not fossils) may be entered and must have been personally (and actively) collected in the field by the exhibitor. The specimens may be any species, from any locality and any size. Eligibility is strictly limited to amateurs.

The Best Fossil Trophy - This trophy is given to the best field collected fossil found during the year preceding the opening date of the 2019 show. The fossil entered must have been personally (and actively) collected in the field by the exhibitor and may be any species, from any locality and any size (must fit in a four foot case). An exhibitor may enter up to three fossils. Each specimen must be labeled following AFMS fossil labeling rules as modified for the Denver Show. In addition, the formation must be cited on the label. A fossil is eligible to win this trophy only once. Eligibility is strictly limited to amateurs.

Club Prospector Trophy - Any member club of the Greater Denver Area Gem and Mineral Council is eligible to enter a display in a standard Denver showcase exhibiting three mineral specimens collected on club-sponsored field trips in the year after the 2018 Denver show. The display should be an attractive case of interest to viewers. The entries will be judged one third on showmanship as defined in the AFMS Rules and the other two thirds of the case score will be double the highest score from among the three mineral specimen scores.

For complete information regarding these competitions, please refer to the official competitive exhibitors application forms. These forms are available either from your club representative or contact Larry Havens at 303-757-6577 or lwrnchavens@comcast.net or lghavens4@gmail.com. More information next time.

Remember the Denver Gem & Mineral Show takes place September 13 - 15, 2019 at the Denver Mart. The Denver Mart is located at I-25 and 58th Avenue (Exit 215 on I-25). The address is 451 E. 58th Avenue, Denver 80216. The theme for the 2019 show is "Canada Unearthed". The Show Chair is George Daggett, 303-453-3651 or geoddaggett@hotmail.com.

Respectfully submitted, Judy Knoshaug, Show Secretary

Selected upcoming LGMC and Earth Science Events

Fri April 19th **LGMC Meeting, 7:30pm – guest speaker will be Dave Alexander**

April refreshments – Bob Burroughs and Lynette Warren

Upcoming May refreshments – Nancy Kimber

We need several more members to volunteer to bring snacks

Faceters and Cabbers group will NOT meet this month. Illness and out of town travel will keep us from opening the church on Tuesday, April 16th. However, one of the topics for our meeting was the display of our gems and jewelry at the club meeting. Please bring some of your creations to share with club members. A display case will be at the club meeting to show them off.

Junior Rockhounds

The Junior Rockhounds (**formerly Pebble Pups**) will have their first meeting at the April General Meeting immediately following the Refreshment Break. The Junior Rockhounds program will follow the AFMS Future Rockhounds of America Badge Program.

The topic of the April meeting is Field Trip Etiquette, Safety & Ethics. This is the first requirement of three for completing the Field Trip badge. The meeting will review general field trip rules; AFMS Code of Ethics and LGMC Field Trip Rules. Jim Hooten, LGMC Field Trip Coordinator will lead the discussion.

Our application to the AFMS Future Rockhounds of America has been accepted! LGMC Junior Rockhounds is officially a sanctioned chapter.

If your children or family want to join the LGMC Junior Rockhounds send me an email at rwankner@msn.com



Upcoming Geology Events:

Calendar of Coming Events

Fri., Apr. 12, 6:45 p.m., North Jeffco Gem & Mineral Club Silent Auction; all welcome (setup begins at 5:30). APEX Community Recreation Center, 6842 Wadsworth Blvd., Arvada. For more info, Bill Jones, 303-503-6288

Fri.-Sat.-Sun., Apr. 12-14, Colorado Mineral and Fossil Spring Show, Crown Plaza Hotel /Convention Center, 15500 E 40th Ave., Denver, Colorado, 10-6 Fri. & Sat., 10-5 Sun., free parking & admission.

Thurs., Apr. 18, Colorado Scientific Society annual dinner meeting, at Mount Vernon Canyon Club, 24933 Clubhouse Circle, Golden [Lookout Mountain] with a presentation, “**Kilauea’s 2018 eruption - new methods and perspectives for monitoring volcanic eruptions**”, by Jeff Sloan and Don Becker, USGS. You may attend the dinner, or just come afterward for the presentations. Social gathering at 5:30, dinner at 6:00, program at 7:00. To make reservations see www.coloscisoc.org .

Mon. & Tues., Apr. 22 & 23, a pair of short **Geology/Nature Hikes for Earth Day** (which of course is always April 22), on the **Table Mountains, Golden.** Monday, Apr. 22, a hike to the **waterfall on the east side of North Table Mountain**; meet at 5:00 p.m. at Tony Grampas Park, Salvia St. off W. 44th Ave., Golden. Tuesday, Apr. 23, a hike to the top of “**Castle Rock**” on **South Table Mountain**; meet at the trailhead at 18th St. & Belevedere St., Golden (take 19th St. east till it dead-ends at the foot of the mountain; jog left on Belevedere, park between 19th & 18th Streets. Let by USGS geologist Pete Modreski. Open to the public—anyone who would like to come. Each hike should take 2 hours or less, up & back; return by dusk. For more info or if weather is questionable, contact pmodreski@usgs.gov, off. 303-202-4766, cell 720-205-2553.

April 25-28, Dinosaur Ridge, 30th Anniversary Celebration: events, Thursday through Saturday, include Jurassic Park Movie Night at the Alamo Draffhouse; Walk with a Scientist Tours; Spotlight on Science talk at the Origin Hotel Red Rocks; Community Carnival in the Cretaceous; and 30th Anniversary Gala Event at Origin Hotel. For full information on all these events, see <http://dinoridge.org/tours-programs/30th-anniversary-celebration/> .

Sat., May 5, 11 a.m. to 2:45 p.m., Colorado Mineral Society Silent Auction; Holy Shepherd Lutheran Church, 920 Kipling St., Lakewood. Checkout begins at 2:45 p.m.; all are welcome; for more info, see www.coloradomineralsociety.org or contact Ben Geller, 303-550-5993 or email auction.coloradomineralsociety@gmail.com .

Thurs., May 9, 7:30 p.m., Friends of Mineralogy, Colorado Chapter, bimonthly meeting: featuring Ryan Bowling, **Rhodochrosite from Argentina, by David Stout.** Meeting in Berthoud Hall, Room 109, Colorado School of Mines campus, Golden. All are welcome.

Tues., May 14, Colorado Scientific Society annual Emmons Lecture, by **Dr. Mark Barton, Univ. of Arizona, Lowell Institute for Mineral Resources**, topic and location TBA. This public presentation will take place in conjunction with a 2.5-day USGS-CSM-CGS joint Mineral Resources Forum.

Sun., May 19, Friends of Mineralogy, Colorado Chapter, Silent (+Vocal) Auction. Noon to 4 p.m., Clements Community Center, 1580 Yarrow St., Lakewood CO. All are welcome to attend.

Fri.-Sat.-Sun., May 31-June 2, Pikes Peak Gem & Mineral Show, Norris-Penrose Event Center, 1045 Lower Gold Camp Road, Colorado Springs, CO 80905. Sponsored by the Colorado Springs Mineralogical Society. Hours: noon-7 pm Fri., 10-5 Sat, 10-4 Sun. Adult admission \$5.

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 to Peter J. Modreski for the information!

April is Poetry Month

Fragrant hyacinth
Shades of purple amethyst
Ephemeral gem!

Submitted by Ann Jenkins

How do dendrites form?

Anyone who has seen "moss agate" is familiar with the delicate branching structures that look like fossil plants. These features, called dendrites aren't plants, and the processes that form them are essentially inorganic. Dendrites are fairly common. They often form on bedding plane and joint surfaces in limestone, shale, granite and other rocks. They frequently develop during the industrial processes of making various alloys. They control the shape of some snowflakes. Most annoyingly, they form as frost on your car windshields on wintry mornings.

Dendrite refers to any mineral that grows in a delicate branching pattern. The habit is similar to arborescent, although I use tend to use the term arborescent when the branches are relatively stout, rather than moss-like. Many minerals can take on dendritic forms. These include various iron and manganese hydroxides, copper, gold and silver. How do these structures form if they aren't plants?



Dendrites are thought to form when crystallization is rapid and there is a limited amount of what chemical is formed available. These are conditions associated with disequilibrium. Frost on your windshield is a good example. The little frost flowers grow fast, but if there is too much moisture they intergrow to make a solid sheet of ice without the delicate form showing. Black dendrites on a limestone bedding plane are another example. These make what people often "pyrolusite dendrites", although recent analyses have shown them not to be pyrolusite, but instead other manganese hydroxides such as romanechite, birnessite, coronadite, and cryptomelane. At any rate, a fluid bearing manganese in solution is seeping along a bedding plane surface as little tendrils of liquid. The liquid dries out, becomes supersaturated in manganese compounds and the dendrites form fast. However since there isn't a lot of manganese in the tendrils to start with, the manganese hydroxide doesn't form a solid sheet, preserving the fractal patterns of the fast mineral growth.

Dendrite formation can be modeled artificially and studied quantitatively. This is done because understanding dendrite growth is an essential part of material science, especially alloy formation. It turns out that the shape and amount of dendrite growth affects all sorts of properties of materials - such as their flexibility, springiness, stretchiness, electrical conductivity and so forth. NASA did a crystallization experiment on a Space Shuttle mission to study the nature of alloy growth under weightless conditions. A video of growing copper dendrites can be found at <http://nepp.nasa.gov/whisker/dendrite/index.html> . Dendrites can be modeled exactly by simple computer programs in which the computer constructs what happens when sticky particles encounter another at random. The way they stick together beautifully generates dendrites. So this random relationship over time turns out to form an elegant pattern. A lot of nature works this way.

In minerals dendrite growth isn't quite random. The little atoms (particles in the above experiment) don't stick at random, but do so according to the crystalline structure of whatever mineral they are forming. Thus in ice and snow the branching often takes a hexagonal form and in copper, a lot of branching is at right angles, consistent with copper's cubic crystal structure.

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

LGMC Summary Minutes, Board Meeting

LGMC Summary Minutes Board Meeting, March 18, 2019

Location: Columbine Hills Church

Called to order at 7:00 pm by President Ron Wankner.

In Attendance: Ron Wankner, Larry Havens, Ian Duncanson, Lynette Warren, Lesley Sebol, Nick North and Travis Leach

Minutes of the January meeting were approved as published.

Treasurer's Report: Lesley reviewed the report for the financial activity for the period 2/1/19 to 2/28/19. Income was from dues. There were no expenditures.

Motion to accept treasurer's report by North; second by Duncanson; motion carried.

Reminder: Any club member may ask the Secretary to see the treasurer's report at any regular club meeting.

Membership: Ian presented the applications from two families (Edward and Julie Behen and their children Nicholas and Abigail; Kathy Underhill and daughter Maggie Lee)

Old Business: Bank account signatures status: The board approved Lesley Sebol and Ron Wankner as signatories to the club accounts. North and Jones will be dropped.

The issue of checking account options to avoid requirement for a \$10K minimum was revisited. Lesley reported that there is an alternative account plan that requires only a \$1,500 minimum balance. Exploration for further alternatives will continue.

Ron asked for Board members to join him for tours of the 2 meeting location finalists. Duncanson, Warren and Havens volunteered to participate.

Ron indicated his intention to develop an Accident Waiver and Liability Release Form

New Business: Ron updated the status of the New Meeting Location Search. He distributed several spreadsheets analyzing the costs for ten respondents to his search. One sheet presented a cost breakdown for general meetings, Board meetings, Holiday party and Cabbers/Faceters. Columbine Hills Church (current meeting location) appeared in all the spreadsheets to establish a baseline for comparison to the other candidates. The sheets also noted if kitchens and/or AV equipment was available. The second sheet listed the site options in the order of their positive to negative impact on our meeting site budget. On this basis with zero expense for general and other ancillary meetings, St. Phillip Lutheran Church was the clear leader. In second place was the Heritage United Methodist Church with a much less positive budget impact.

Those Board members who visited the top 2 candidates, even putting aside the disparity in budget impact, still favored St. Philip based on several intangibles. Based on the very favorable budget advantage, the comments from the tour attendees, and additional Board discussion, it was decided to choose St. Philip for all our meeting activities except for our annual auction. For that activity, Ron was charged with contacting the United Methodist Church that has a large space available at the best rate. Ron will finalize arrangements with both facilities and asking for written "contracts/agreements" with both. (Spreadsheets entered as exhibits into these minutes.)

Lynette Warren outlined the activities for the grab bag sewing/stuffing party she will be hosting. She is hoping to sew more bags than are needed for a single year.]

Programs: April: Dave Alexander (Pegmatites of the Pikes Peak Region)

Facebook: Nicole Bolger reported that numbers of hits were creeping up. (Secretary's non-meeting aside: at the

April meeting of the Denver Show Committee, Gloria Staebler (Show publicity chair) enthused about Nicole's content on our site and encouraged us to recruit her services for the Show website. Good work, (Nicole!)

Website – Kollin Olsen sent a note asking for additional time to implement his site development. The current webmaster, Gus, has ideas he would like to see considered as well. Ron will work with them to adjust the site development schedule.

Faceters/Cabbers: 3rd Tuesday of every month at the church.

Mineral Study Group: No meeting in March; the Board thanks Larry Havens, Nick North, Lesley Sebol and Nancy Kimber for displaying their Tucson specimens at the last meeting.

Next Board Meeting: 4/22/19 at the church

Meeting adjourned 8:35 pm.

Respectfully submitted,
Larry Havens, Secretary

Congratulations to Larry and Kent Havens

AFMS Show & Convention

The AFMS Show & Convention in Cedar Rapids, Iowa, had about 35 dealers and about 30 display cases, with just 3 of those being competitive. The Awards Banquet and the Breakfast with the Editors were well attended and several Rocky Mountain Federation clubs and members received awards, including our own Larry and Kent Havens. The three competitive cases were all entered by Rocky Mountain Federation members – Larry Havens, Kent Havens, and Paul Otto- and all three received AFMS Trophies; Kent Havens also received a Midwestern Federation Competitive Trophy. Congratulations Guys!



Kent and Larry Havens



Field Trip News

North Table Mountain—This month's speaker, Dave Alexander, with Lake George Gem & Mineral Club, has informed me that he is planning a trip for **Wednesday, May 1**, to **North Table Mountain**, near Golden, CO, to collect **Zeolites**. He asked if anyone from our Club would be interested in coming along for this trip. Being on a Wednesday, it will keep a lot of LGMC members from attending, but if a mid-week time does not present a problem, and if you would like to join Dave, please let me know. If you are at the April Meeting on 4/19, you can let me know then. I will make an announcement at the meeting as well. Otherwise, please text or email or call me if you are interested in attending this trip. Meeting time and location will be made available.



2. **Gold Mine Tour + gold panning + more**—

There are 2 options for a possible LGMC field trip to a local gold mine. One is a trip that the club has done in the past, and another is a new location. I want to see what degree of interest there is for one or the other of these options. The tour will be scheduled for a Saturday during this summer.

- a. **Hidee Gold Mine (near Central City) + optional Panning** (this is a new location). This option includes a Tour into a gold mine driven 700 feet into the mountainside. No restrictions on age of participants, but infants and young children must be attended to at all times. Visitors are welcome to try their hand at “hard rock mining”. You will be given a hammer and chisel to retrieve a specimen of “gold ore” from the main ore vein, yours to keep as part of the tour. Don't expect to see any gold in the specimen. Any gold is too small to see, but it likely will still be present. The tour takes approximately 1 ½ hours, which leaves ample time to do some “gold panning”, or purchase lunch, outside the mine once the tour is ended. The “panning” is an optional feature, available at an additional cost (see below). There are 2 levels of Group Discount for the tour, depending on the number of attendees (10% for groups up to 29; 20% for groups of 30 or more).

Here are the Hidee Mine rates:

Mine Tour Only: (Groups up to 29)
\$22.50 (Adult, age 15 & up); \$13.50 (Child, age 4-14); Free (age 1-3).
(Groups 30 or more) \$20 (Adult); \$12 (Child); Free (age 1-3).

Panning Option: \$5/person (pan heavy metals from mine, no free gold); \$15/person (pan a bag of sand w/free gold obtained from another source—keep gold).



b. **Georgetown Loop Train Ride + Everett Mine Tour + Gold Panning (free gold) + Lunch.**

The Club has done this trip in the past. It includes a ride on the historic Georgetown Loop Rail Line, along Interstate 70, between Silver Plume and Georgetown. Halfway along this trip the train stops for a tour of the historic Everette Mine. After the mine tour, you are given a bag of sand with free gold (from another source) for panning. You are given panning instructions and allowed to keep the gold you pan. After panning, you are given a lunch of hot dogs, chips and soda. Upon completion of the tour, panning, and lunch, you re-board the train for the completion of the ride and are returned to your cars. This trip takes approximately 1 ½ to 2 hours. The Mine Tour is only available for children age 6 and above. Children age 5 and under must remain outside the mine with a parent, and can play in a designated area looking for “gems” on their own “claim” (sand box). **Here are the rates for the Georgetown Loop/Everett Mine Tour/ gold panning/lunch (everything is included in one price):**



\$39.50 (Adult, age 16 & up); \$28.50 (Child, age 3-15). For train ride, one child, under age 3, is free per adult when sitting on adult’s lap.

If you try to make the two Mine Tour options similar, by choosing the “free gold” panning option with the Hidee Mine Tour, the comparison of final rates is:

Hidee: (**Groups up to 29**) \$37.50 (Adult); \$27 (Child); (**Groups of 30 or more**) \$35 (Adult); \$27 (Child)
Georgetown: \$39.50 (Adult); \$28.50 (Child).

I will discuss these options at the April Meeting and see if there is sufficient interest in one or the other of these trips to make them worth reserving spaces. If you cannot attend the April Meeting, but would be interest in attending one or the other trip, please call, email or text me to let me know your choice.

3. **Tour of Collector’s Edge Office and Warehouse in Golden, CO.**—Phil Persson, with the Collector’s Edge, who spoke to our Club at the March Meeting, has offered to lead a tour of this interesting mineral preparation operation, including the main office and the “hands on” Warehouse facilities. I am asking the Club Member if anyone would be interested in attending. **Hold on**, there are some restrictions!! First, the **tour can only be given on weekdays** (no weekend dates). There is a **limit of 20** for the number of participants. Phil would lead the group through both buildings, taking 2 hours +/- total. If there is a sufficient number of members who could make this activity, I will set up a date with Phil. Since it is on a weekday there are many more options, ranging from late May of this year, through the summer months, and even into next Fall or Winter. Again, I will discuss this trip at the April Meeting. Please contact me if this is something you could and would do.

Grab Bag News!

The Grab bag Party was amazing, we had a wonderful turn out, it was fun, the food was great, and accomplished making and filling a lot of bags.

A special thanks needs to go to our contributors, Karen Runner for donating lots of beautiful material, Nancy Kimber with her fabulous colored string, Carol Nielsen-Alt who brought over 400 completed bags, Nicole Bolger 200 precut bags and Maxine Sheel with over 100 fancy bags. It was incredible - and all this was here before the party began!

I want to give a huge thanks to all of you who attended and helped out elsewhere. You made it all possible

Rachel Bochinton
Nicole Bolger
Stefanie Hughes
Nancy Kimber
John Kleber
Carol Nielsen-Alt
Karen Runner
Maxine and Keith Sheel
Renee Singer
Kathy and Maggie Lee Underhill
Nick Warren

Congratulations to our new inductees into the Grab Baggers Hall of Fame:

Nicole Bolger
Stefanie Hughes
Kathy and Maggie Lee Underhill

To a job well done!

Thank you all
Lynette Warren



Carol Nielsen-Alt



Karen Runner



Keith Sheel



Nick Warren



John Kleber



Kathy and Maggie Lee Underhill



Nicole Bolger and Stefanie Hughes



Rachel Bochinton



Carol Nielsen-Alt, Maxine Sheel and Nicole Bolger



Nancy Kimber, Stefanie Hughes and Renee Singer

Club Announcements

Welcome New Members: Edward and Julie Behen, Kathy Underhill and Maggie Lee, Kaden and Amy Bennett.

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

Do you know someone who could use some sunshine? Send a note to our sunshine coordinator and let her know, **Lynette Warren**, flywithle123@comcast.net or 303 956-4634.

Club Membership Dues

The annual membership dues are \$20.00 per family or individual per year and are due in January each year. **Ian Duncanson** will have a table setup at the Monthly meeting to renew membership dues or you can mail them in to LGMC P.O. Box 283, Littleton, CO 80123

LGMC dues for 2019

Please bring the following form to the next meeting with your \$20 check:

Name(s) _____

Dues payment (\$20) _____ **Renewal**

Email address: _____

Club Vests Show your club support at the meetings and other events! **Ian Duncanson** has club vests available for sale.

\$18 for small and medium sizes

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

Price includes vest, sewed on club patch (on back) and a club pin



CAN WE BE FRIENDS?

Thank you to everyone who has LIKED or FOLLOWED our Facebook page — we continue to grow our online community and appreciate your participation. Please continue to share and comment on your favorite posts so newcomers can see what an active and engaged club we are!

Find us at LittletonGemandMineralClub on Facebook.

Join us at <https://m.facebook.com/LittletonGemMineralClub/> or tag us @LittletonGemMineralClub

See you on Facebook! Nicole Bolger

Thanks to everyone who contributed to the newsletter!

~Tammy



RMGM Promotions Presents

COLORADO MINERAL & FOSSIL SHOW

SPRING SHOW APRIL 12 - 14, 2019

HOURS FRIDAY - SATURDAY 10AM - 6PM & SUNDAY 10AM - 5PM

CROWNE PLAZA DIA

15500 E. 40TH AVE., DENVER, CO 80239

(NORTHEAST CORNER OF I-70 AND CHAMBERS RD.)

Minerals, Fossils, Jewelry & More

Retail & Wholesale Dealers

(Tax I.D. Required for Wholesale purchases)

Free Gold Panning Lessons

Free Admission

**\$100 Show Dealer
Voucher Giveaways
every day at 12:00PM & 4:00PM
You need to be present to win**



Wulfenite
Mina Ojuela, Mexico

Jeff Scovill photo
Martin Zinn Collection

www.RMGMPROMOTIONS.COM



Colorado Mineral Society's Silent and Verbal Auction Saturday May 4, 2019

Minerals, fossils, faceted stones, lapidary equipment and materials, books, jewelry, and fluorescent minerals

- Door prizes every half hour, raffle at 2:45pm
- Special verbal auction at 1:00pm of museum quality specimens donated by special dealers
- Abundant parking, refreshments, and easy handicap access
- A few auction tables reserved for only children to bid on
- Special fluorescent minerals room
- A special direct sale of rocks and minerals will occur during the auction; buy and carry home!

Location:

Holy Shepherd Lutheran Church
920 Kipling Street (3 blocks north of West 6th Ave.)
Lakewood, Colorado 80215

Time:

11:00am to 2:45pm
Checkout will begin at 2:45pm (Cash or Check Only)



****A special invitation is extended to non-CMS members to participate in this auction as sellers and buyers****

Limit of sales to three flats of materials. Sellers can get copies of bidding slips on our club website: [http://www.coloradomineralsociety.org/Silent Auction Bid Slip.pdf](http://www.coloradomineralsociety.org/Silent_Auction_Bid_Slip.pdf)

Note: Bid slips must be filled out prior to arriving at the auction!

www.coloradomineralsociety.org

Checkout will be by bidder number, so contact Leslie Osgood at 303-986-4488 for a bidder number and/or seller letter (Cash, Check, and Credit will all be accepted at the auction)

Any questions about the auction should be directed to Ben Geller by phone at 303-550-5993 or by email at: geller520@gmail.com

☞ 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
Treasurer	<i>Lesley Sebol</i>	720-999-1372
President elect	<i>Kollin Olsen</i>	303-233-9492
Program Chairman	<i>Stacey Lestina</i>	303-241-6670
Field Trip Chairman	<i>Jim Hooten</i>	303-770-7177
Highlites Newsletter Editor	<i>Tammy Jacobs</i>	303-680-8830
Trustee (Year of 2019 as past President)	<i>Travis Leach</i>	303-887-9787
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 ☞

Trustee-at-Large	<i>Lou Conti</i>	303-797-3205
Trustee-at-Large	<i>Dale Gann</i>	720-981-5526
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>	
Photographer	<i>Open</i>	
"	<i>Open</i>	
Hospitality	<i>Nick North</i>	303-840-1177
Grab Bags	<i>John Kleber</i>	720-851-8510
Web Administrator	<i>Kollin Olsen</i>	303-233-9492
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 Columbine Hills Church, 9700 Old Coal Mine Avenue, Littleton, CO 80123. 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.

Any material contained in the HIGHLITES may be reproduced, as long as credit is given, unless otherwise indicated. Contribution articles are welcome.

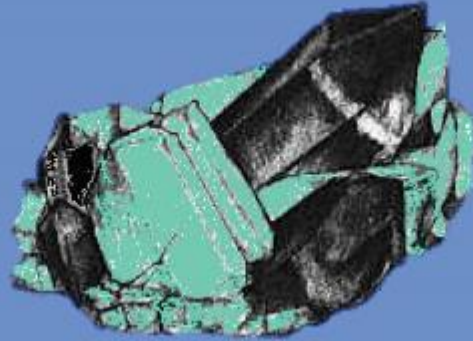
****The deadline for submissions is the 1st Friday of each month.** Please send your material by email to jacobstammy80@gmail.com.

Advertising Rates: \$50 / Full Page. \$30 / Half Page. \$20 / Quarter Page.



HighLites

LITTLETON GEM & MINERAL CLUB



HARRIS PARK AMAZONITE & SMOKY QUARTZ

LITTLETON GEM and MINERAL CLUB
P.O. Box 283
Littleton, CO 80160

FIRST CLASS MAIL
Return Service Requested