

# News from the Littleton Gem and Mineral Club!

## Picnic!

**When:** Sunday Aug 19<sup>th</sup>. We will plan to eat at 12:00 noon or so, after we set up. Arrive slightly earlier if you can help setup. Thank you!

**Where:** Sterne Park, **South** shelter. 5800 S Spotswood St, Littleton, CO 80120

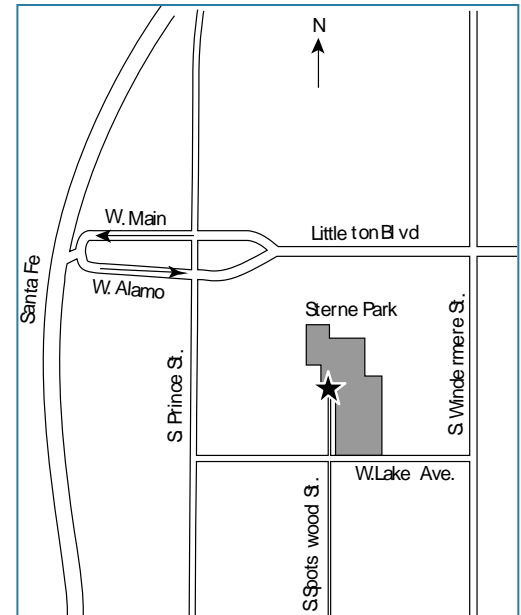
There is a shelter on the south side of the park. From the corner of W. Lake Ave and S. Spotswood St., go north on Spotswood until it makes a 90 degree turn to the left. The entrance to the parking lot is on the right and the shelter is on the north end of the parking lot. Be reassured, it is easy to find.

**FOOD!** The club will provide **fried chicken** for the main course.

**Members!** This is a **Pot Luck Picnic** so each family is asked to please bring a dish that serves 10-12 people.

If your last name begins with **A-N**: Please bring salad or vegetable.  
If your last name begins with **O-Z**: Please bring a dessert.

If your item requires a serving spoon, fork, etc., please bring it along (and label it!). If you don't want chicken, bring your own main dish. If you would like some other beverage, feel free bring it; **HOWEVER**, according to City of Littleton rules, **alcohol and glass containers are prohibited.**



**Drawing!** Keith Sheel, K & M Enterprises, has kindly volunteered to donate a jade pendant and earrings for a raffle drawing to offset the Club's picnic expenses.

Tickets will be \$2 each, or 6 tickets for \$10.

## *Program: Stuff'n the [grab] bags*

The club will again include grab bag stuffing with the picnic this year! After stuffing ourselves with great food we can stuff grab bags. You can stretch your legs while the picnic tables are reorganized for the grab bag stuffing. For those who do not make it into the grab bag stuffing line, there will be loose specimens and supplies for labeling specimens for inclusion in future grab bags. Or you can just socialize and cheer on the stuffing line!



While we do this, we will be visiting, swapping stories and laughing to aid our digestion. Do bring your helping hands and collecting stories as well as any bags and specimen donations for future years.

This year I will be in California to help my granddaughter celebrate her 10 birthday, and Lynette Warren has offered to help with the bagging. Please work with her and thank her for helping.

John Kleber

The Bag Beggar

**SPECIMENS:** Everyone bring the best minerals you have collected since last fall, 9/30/2017, for the **Club Prospector Case** at the upcoming September Denver Mineral Show. **Jim Hooten** is putting the case together again this year. Jim will select top 3 specimens for judging, as well as additional specimens for display. You don't need to pre-judge your own specimen. If you think it's a good one, please bring it for Jim to inspect. He may need to borrow it for a month. You'll get it back!

Also, everyone is encouraged to bring any Club Trip specimens, regardless of quality, just for "show-and-tell", and to share with other members.

## Calendar of Coming Earth Science Events!

### August 2018

**Thurs., Aug. 9,** 4:00 p.m., “**Geology of Gilman, Colorado**”, will be the last in the series of four “**EDTalks**”, in the Boettcher Room at the CSM Arthur Lakes Library (1400 Illinois Street, Golden, Colorado). “Ed Raines, Collections Manager at the CSM Geology Museum and recognized expert on Colorado minerals and mining history, will present a series of talks with an in-depth look at important mining districts of Colorado focusing on their history and geology. All are welcome. Here is the remaining class:

**August 9, 4 p.m., Geology of Gilman, Colorado**

**Sat., Aug. 11,** 10 a.m. – 2 p.m., **Dinosaur Discovery Day** at Dinosaur Ridge, featuring “Reptile and Bird Day”. Public tour day at Dinosaur Ridge, 16831 W. Alameda Parkway, Morrison. Walk up and down the Ridge to see interpretive guides explain the various fossil and geology stations, or ride a guided shuttle up and/or back for \$4. See [www.dinoridge.org](http://www.dinoridge.org). 225 North Gate Blvd., Colorado Springs (I-25 exit 156).

**Aug. 9-12, Contin-Tail rock & mineral show,** Buena Vista Rodeo Grounds, Buena Vista, CO; see [www.facebook.com/ContinTail](http://www.facebook.com/ContinTail)

**Tues., Aug. 14,** 7:00 p.m., Western Museum of Mining and Industry Speakers' Bureau lecture, Nick Iwanicki, “**Mining history collections at the Colorado School of Mines Library**”. All are welcome; \$5/person (free the WMMI members), doors open at 6:30 p.m., in the WMMI Library. RSVP to 719-488-0880 or email [rsvp@wmmi.org](mailto:rsvp@wmmi.org)

**Aug. 16-19, Woodland Park Rock, Gem, & Jewelry Show,** Woodland Park, CO; see <https://www.facebook.com/woodlandparkrockandgemshow/>

**Aug. 17-19, Lake George Gem & Mineral Show,** sponsored by the Lake George Gem and Mineral Club, Lake George, CO. See <http://www.lggmclub.org/>

**Sat., Aug. 18,** “My friends and I are going to hold a home sale on Saturday, August 18th. This sale will feature a large 1,500+ piece antique glass bottle collection from Leadville and several hundred pounds of lapidary rough from an estate in Colorado Springs. We would like to invite our fellow rockhounds and collectors to the sale. Since most of the bottles are from Leadville we thought the rockhound crowd might find them interesting. We'll be offering a lot of discounts, so it will hopefully be a good chance for everyone to stock up. We greatly appreciate your time and any help you can give us in getting the word out, it should be a really fun sale! To receive a flier about the sale with details, please write to [matthew.d.dye@gmail.com](mailto:matthew.d.dye@gmail.com). --- All the best, Matthew Dye”

**Thank you to Pete Modreski for keeping us informed!**



**Pictures!** Some pictures from recent club events in the newsletter below. If your pictures are not included in this edition, send them along, and I can add them to the next edition.



Also, LGMC member, Carol Nielsen-Alt is compiling our pictures for a Shutterfly album. You can send pictures to Carol and I at [cjcomputer@aol.com](mailto:cjcomputer@aol.com), and [jacobstammy80@gmail.com](mailto:jacobstammy80@gmail.com)

## Pictures from the Peridot trip.

Sent by **Robert Berry**.



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# Denver Gem & Mineral Show Mini Report

## 50th Anniversary Show August 2018

I hope you have made all your plans for the Denver Gem & Mineral Show because the show is just around the corner. The show takes place September 14 - 16, 2018 at the Denver Mart, 451 E. 58th Avenue (I-25 and 58th Avenue, exit 215). The theme for the show is "Minerals of Mexico". The Show Chair is Lesley Sebol, lesleysebol@gmail.com or 720-999-1372. The show is always a fabulous exciting event and this year will be no exception. Everyone on the Show Committee is dedicated to making the show the BEST! If you enjoy the mineral, fossil and gem hobbies, take advantage of the show. It is a unique opportunity right here in Denver to fully participate in your passion for minerals, fossils, and gems. To see the quality of the exquisite minerals that will be at the show, check out the flyers recently sent to all the clubs. One specimen is an Adamite from the Ojuela Mine, Durango, Mexico, and the other is a Mexican agate.

Publicity Chair Gloria Staebler has been working on innovative ways to publicize the show. For instance, she will be producing a weekly e-newsletter with news of the show and will produce one each week until show time. This newsletter will be emailed to the almost 6,000 persons in the database developed over several years. All club members are invited to participate in the efforts to engage a larger community interested in and supporting the show. You may sign up for the e-newsletter at this link: <http://eepurl.com/dB6ykH>. It is very easy to do. Once you sign up, you will receive a welcome email and a link to the first e-newsletter. I have signed up and already seen the first e-newsletter. It is very informative and artfully created. As an additional enticement, each week that you are on the list you will be entered into the drawing for VIP passes gift certificates to be used with the show's dealers, and other prizes. So don't delay! Take advantage of this opportunity! The newsletters may highlight some feature of the show that you did not know about. And one lucky person has already won a \$100 gift certificate with a show dealer.

Please don't forget the Show Committee is very appreciative of all the volunteers' efforts and extends the following benefits in appreciation: free admission to the show all three days, providing the Hospitality Room for snacks and beverages during the show, pizza for lunch on Wednesday for set up, deli sandwiches on Sunday evening for tear down.

**REMEMBER THE \$5,000 GOLD GIVEAWAY IS BACK FOR CHILDREN 12 YEARS OF AGE AND UNDER!** This activity at the show last year proved to be very popular. So it is being repeated this year. The gold panning troughs will be salted again with numbered tokens. Children 12 and under are eligible to pan for these tokens. When a child finds one, he or she may exchange it for the corresponding gold nugget. There is a limit of one token/gold nugget per child. Since I spent a lot of time last year in the club area next to the gold panning activity, I can tell you the gold panning was humming with hopeful children panning for those tokens. And many were successful!

Respectfully submitted, Judy Knoshaug, Show Secretary



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# DENVER GEM AND MINERAL SHOW JOBS

We need help!! The following is a list of jobs that need volunteers. Read them over and sign up for the job(s) that you would like to do. This show is all volunteers. No one is paid. Please come by and join us. You can meet new people and receive free admission by volunteering. Sign-up sheets will be available at your club meetings. The chair person for each committee is listed. Call or email if you have questions about the job.

**WORK ANYWHERE:** Check this box if you want to volunteer but are not sure what you want to do. The different committee chairpersons will contact you to talk about how you can help.

**CLUB BOOTH:** Your own club will have a booth and will need to have someone demonstrating or answering questions. You can recruit new members this way. See your club chairman for details of what your club is planning.

**SECURITY:** Chair Amber Brenzikofer, 720-480-5234 or amberbrenzikofer@gmail.com. The main job is to patrol the show floor and the parking lots. Security t-shirts and walkie-talkies are provided. Security volunteers do not attempt to apprehend suspected shoplifters, but radio back to the security head. Volunteers are asked for 4-hour shifts at a time. Other security at the show is provided by the Mart and contracted by the Show Committee.

**CLERKS TO ASSIST JUDGING:** Chair Larry Havens 303-757-6577 or lwrnchavens@comcast.net. Clerks are needed to assist with judging during the show. These individuals must be willing to work with a team of judges throughout Friday and be able to neatly and accurately record judge's comments. This is a good place to learn first-hand the rules and protocol of judging.

**HOSPITALITY:** Chairs Kevin and KC Larsen, 303-429-6976 or mail@klarsens.net. Need volunteers every day to serve coffee and tea, donuts and snacks to the volunteers and dealers.

**GRAB BAGS, PINS, POSTERS SALES AREA:** Chair George Daggett, 303-453-9651 or geoddaggett@hotmail.com. This job is sales of grab bags, posters, and pins and is fun because you work mostly with kids. Many volunteers are needed on Friday morning when the school children are at the show.

**ADMISSIONS:** Chair Kathy Honda 303-556-4498 or email katherine.honda@ucdenver.edu. These are sitting jobs for hand-stampers, ticket-takers and ticket-sellers (need cash handling experience making change and working fast when the crowds arrive).

**EXHIBITS :** Chair Larry Havens 303-757-6577 or lwrnchavens@comcast.net. Volunteers are needed Thursday to assist the exhibitors as they register and set up their cases. Help is needed in cleaning the glass window in the cases each day for fingerprints, etc.

**DEALER CHECK IN:** Regina Aumente 505-867-0423 or raumente@aol.com. Workers needed Thursday through Sunday. Minimal Typing required.

**VOLUNTEER CHECK IN:** Chair Anita Colin 720-556-9889 or anitacolin@hotmail.com. The Job is Wednesday through Sunday, checking in volunteers and giving out badges. This is a sitting job.

**SHOW SET UP:** Linda Burns, 303-263-0391 or burns.henley@gmail.com. Volunteers are needed to set up Wednesday from about 9:00 a.m. until the setup is finished. We will be cutting plastic, skirting tables, assembling exhibit cases, etc.

**SHOW TAKE DOWN:** Chair Dan Wray 303-922-0905 or Daniel\_Wray @comcast.net . Volunteers are needed Sunday after 5 p.m. Strip tables, take down cases, pack away risers, cases, etc.

**SCHOOLS:** Chair Judy Knoshaug 303-423-2923 or jrknoshaug@comcast.net. Help with the school kids, give them a brief talk about the show, and guide them into the show entrance. Friday morning from about 8:30 a.m. to noon.

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## Selected upcoming LGMC and Earth Science Events

**Sun Aug 19 LGMC Summer Picnic**, 12 noon. Sterne Park, South shelter. Don't miss it!  
For more info, see Page 1.

**Tue, Aug 18 Faceters and Cabbers:** at the Columbine Hills Church, 7:30pm.

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## LGMC Summary Minutes, Board Meeting

April 23, 2018

Called to order at 7:11

In Attendance: Charlie Wall, Larry Havens, Stacey Lestina, Travis Leach, Ian Duncanson, Lesley Sebol, Jim Hooten, Dan Lovett and Ron Wankner.

Minutes of the March meeting were approved as published with motion from Hooten and second by Wall.

### **Treasurer's Report:**

For the period 3/1/18 to 3/31/18 – Income from dues received. Expenses: postage stamps

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

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

**Field Trips:** Jim Hooten reported that the Cripple Creek/Victor Mine tour was tentatively scheduled for 6/23. Dale Gann will be leading Del Norte trip 7/28-30. All trips to be reviewed at May meeting

**Programs:** Stacey previewed the May Founders' Day meeting, hoping to explore some new ideas for program content. Travis and Stacey will liaise with Maxine Sheel in these matters. The usual field trip descriptions and a short verbal auction will be conducted.

**Hospitality:** Nothing to report

**Highlites:** Steve was not in attendance. **He wishes to step down as editor; a replacement is desperately sought.**

**Facebook:** Stacey reports that lots of links have been added.

**Website:** No movement or changes to report

**Denver Show Comm.:** Lesley reported business as usual; exhibit chairs recruiting significant Mexican exhibits and speakers.

### **Old Business**

- Parking Lot garage sale idea received an OK from Church officials, providing church members could participate as sellers for free. Lesley's review of the physical layout of the parking lot showed that there would be approximately 53 selling spaces. Without arriving at a firm number, the Board discussed how much to charge club members to participate in the garage sale.
- Need to recruit for club positions, especially Newsletter editor, was reviewed.
- Board volunteers were encouraged to contact their "assigned" members.

**New Business:** Revisited need to plan for loss of Church as meeting venue.

- Planning for Founders' Day (May meeting)

**Faceters/Cabbers:** 3<sup>rd</sup> Tuesday of every month at the church. Stacey reported changes in the format. John Revis and John Kleber will lead the group. The introductory class will be to explore what to do for those with no equipment. Hands-on classes in cabbing and faceting will be offered at Keith and Maxine Sheel's home accommodating up to 6 people per month on the 1<sup>st</sup> and 2<sup>nd</sup> Saturdays – 10:00 to 4:30. Maxine will coach beading techniques.

Next Board Meeting: Summer Meeting: date and time TBD

Adjourned 8:26 pm.

Respectfully submitted,  
Larry Havens, Secretary

# Agate Hunters Point Way to an Impact Crater

Recognition that some agates can form in rocks produced from the impact of an asteroid on the earth has lead Finnish geologists to the site of a previously unrecognized impact crater. This is one example of how observations made by rock hounds can lead to a major scientific discovery. Finland is a bit like Minnesota and Wisconsin in that much of it is covered by glacial sediments, with little bedrock exposed. In the 1960's rockhounds began finding agates in the gravel pits north of Helsinki. These were attractive banded nodules up to 2 inches across. Their color bands ranged from white to red to brown to reddish orange. Chlorite and various zeolites minerals, particularly mordenite were associated. Unlike Minnesota and Wisconsin, the bedrock of Finland was not volcanic, consisting mostly of schist, gneiss and granite which do not bear agates. The bedrock source of these agates was unknown, and constituted a major mystery.

A Finnish geologist, H Papunen, noted that the agates were found with chunks of other rocks that were typical of those found in craters formed by asteroid impact with the earth. Rocks melted by such a powerful event would form gas bubbles just like those in conventionally formed lava flows. These gas bubbles could then easily be filled later on by agate-forming solutions. The agates, being so hard and chemically resistant were much more likely to survive weathering and erosion than the typical rocks formed by such impact. Consequently the agates would be widely dispersed by the glacier that scraped through the older crater. Papunen (1969) began plotting the location of the pits in which rockhounds were finding agates. Those pits formed a distinct trail leading north. Using the known direction of glacial movement in that area, he was able to trace the agates back to what he thought was the buried site of the crater. Drilling and geophysical work verified that there was in fact a buried crater there. This crater came to be called the Lake Saaksjarvi crater, and turned out to be 5 kilometers across. None of it outcropped at the surface.

A recent study by Karla Kinnunene and Krisitan Lindqvist (1998) of the Finnish Geological Survey investigated whether these agates were different from agates formed in other environments. They found that the impact agates were similar in all measured physical, chemical and structural aspects to those agates formed in sedimentary or volcanic environments. Consequently, the presence of agates in an area such as ours, where agates from other sources are widely distributed in the glacial drift will not be useful in identifying the location of buried asteroid impact sites. In other areas, where agates aren't ordinarily found in the bedrock, agates may form a useful "path-finder" mineral pointing the way to the discovery of more impact structures. ~ **Dr. Bill Cordua**, University of Wisconsin-River Falls

Used with credit to the author, <https://minds.wisconsin.edu/handle/1793/11510>

## References:

Kinnunen, K and Lindqvist, K., 1998, "Agate as an indicator of impact structures: an example from Saaksjarvi, Finland," *Meteoritics and Planetary Sciences*, vol. 33, #1, p. 7-12.

Papunen, H. ,1969, "Possible impact metamorphic textures in the erratics of the Lake Saaksjarvi area, Finland," *Bull. Geol. Soc. Finland*, vol. 41, p. 151-155.

# Club Announcements



Welcome to our new members:

**Melissa and Kevin Waples. Allison Brown, Matt Larson, Willard Lewis.**

Members we lost:



Our sympathy to John Ake and Family



LGMC Life Member

**Alice Ake**

1926-2018

Alice Ake, passed away on July 21, 2018 at home in Casper, Wyoming. She attended many September club shows and has left many fond memories with friends in the club & Faceters/Cabbers Group.

**Moving?** Change of Address, Email or Phone Number? Ready to go paperless?

Please notify **Ian Duncanson** of any changes at [idunc@q.com](mailto: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](mailto:flywithle123@comcast.net).

Thank you to everyone who contributed to the newsletter!

~Tammy



P.O. Box 283, Littleton, CO 80160

<http://www.littleongemandmineralclub.com/>

**2018 Board of Trustees**

President	<i>Travis Leach</i>	303-887-9787
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>Ron Wanker</i>	303-973-3363
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 2018 as past President )	<i>John Smith</i>	720-981-1368
Trustee (2 year term 2017 & 2018)	<i>Nick North</i>	303-840-1177
Trustee (2 year term 2016 & 2017)	<i>Bill Jones</i>	303-503-6288

**Chairpersons & Appointed Officers**

Trustee-at-Large	<i>Lou Conti</i>	303-797-3205
Trustee-at-Large	<i>Dale Gann</i>	720-981-5526
Trustee-at-Large	<i>Jim Hurlbut</i>	303-757-0283
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>Maxine Sheel</i>	720-532-0784
Junior Historian	<i>Chloe Lovitt</i>	303-791-3112
Photographer	<i>Bob Zartman</i>	303-973-0405
"	<i>Mike Snively</i>	720-981-0752
Junior Photographer	<i>Hunter Kokkinen</i>	720-922-1096
Hospitality	<i>Nick North</i>	303-840-1177
Grab Bags	<i>John Kleber</i>	720-851-8510
Web Administrator	<i>Gus Hanson</i>	
Show Committee Representative	<i>Open</i>	Open
RMFMS & AFMS Representative	<i>Jim Hurlbut</i>	303-757-0283
Denver Council Representative	<i>Nick North</i>	303-840-1177
Cabbers & Faceters Group	<i>Keith Sheel</i>	720-532-0784
" "	<i>Mike Snively</i>	720-981-0752
" "	<i>John Kleber</i>	720-851-8510
Mineral Study Group	<i>Bob Zartman &amp; 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.

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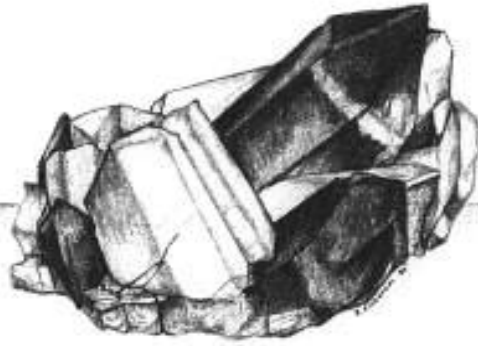
**\*\*The deadline for submissions is the 1<sup>st</sup> Friday of each month.** Please send your material by email to [jacobstammy80@gmail.com](mailto:jacobstammy80@gmail.com).

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



# *HighLites*

LITTLETON GEM & MINERAL CLUB



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