

# News from the Littleton Gem and Mineral Club!

## It's Picnic Time!

**When:** Sunday Aug 18<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.

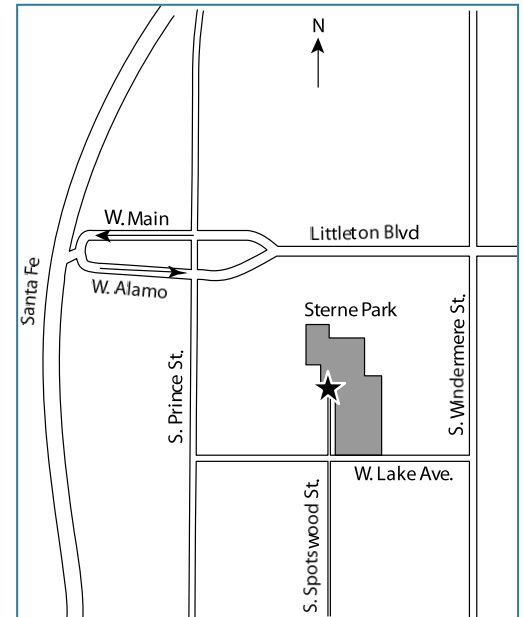
**FOOD!** The club will provide **fried chicken** for the main course, as well lemonade, ice water and ice tea.

**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 a **dessert**.

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

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**.



## *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.

Thanks to Charlie Class, Tom DeMoss and Keith Sheel for the donations over the summer of rocks for our grab bags. I'll be at the Club picnic so bring any grab bag stuff you may have; either rocks, bagged specimens, or supplies.

John Kleber

The Bag Begger

**SPECIMENS:** Everyone bring the best minerals you have collected since last fall, 9/30/2019, for the **Club Prospector Case** at the upcoming September Denver Mineral Show. Jim Hooten, Nicole Bolger and Ron Wankner are putting the case together this year. They 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, bring it for them to inspect. They may need to borrow it for a month. You'll get it back. Be sure to indicate what it is and where you collected it.

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

Jim Hooten

# Presidents Message

August 2019

We're in the middle of the 2019 Field Trip Season and I'm sure that some of you have found a few incredible specimens and candidates for the Odiorne Award. I haven't had the opportunity to go collecting as much as I'd like this season, but we were part of the Crystal Park, Montana field trip. We had a fantastic time with Ed and Susan Wakefield, Lynette Warren and the Sun City Mesquite (Nevada) Geology Club. I will hopefully attend several of the remaining field trips and finish the season strong.

The Denver, Gem, and Mineral show, [Sept 13 - 15, 2019 at the Denver Mart](#), is just around the corner. This year's theme is **CANADA UNEARTHED**. How would you like free admission to the show (all three days!) in exchange for a four-hour volunteer commitment? Contact [Lynette Warren](mailto:flywithle123@comcast.net) (flywithle123@comcast.net), our show committee rep, or the other show coordinators listed to volunteer.

LGMC will also have a club booth in the club/outreach area of the show. We need volunteers to staff it! Volunteering for the club booth is fun, easy, and gets you free admission to the show. [John Kleber](#), an LGMC club member, is organizing the daily and hourly schedule for the club booth. Please let him know (email: [jkleber@att.net](mailto:jkleber@att.net)) if you can help.

## **-REMINDER- NEW MEETING LOCATION!!!!**

### Meeting Date

Sept. 20, 2019

### New Location

**St. Philip Lutheran Church**  
7531 S. Kendall Blvd.,  
Littleton, CO 80128  
(See attached map)



## **NEW SILENT AUCTION LOCATION!!!**

### Silent Auction Date

Oct. 19, 2019

### New Location

**Heritage United Methodist Church**  
7077 S. Simms St., Littleton, CO 80127



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# Denver Gem & Mineral Show Mini Report

## 50th Anniversary Show August 2019

### **CANADA UNEARTHED**

The Denver Gem & Mineral Show is only a little more than a month from now. The dates are September 13 - 15 at the Denver Mart, 451 E. 58th Avenue (I-25 & 58th, Exit 215). The theme is "Canada Unearthed". The Show Chair is George Daggett, 303-453-9651 or geoddaggett@hotmail.com. George is a Denver Gem & Mineral Guild member and welcomes your input about the show.

The show usually presents interesting talks by knowledgeable speakers on the show theme and other gem, mineral or fossil topics. This year is no exception. Here is a partial list:

Rod Tyson - Yukon Phosphate Minerals; Terry Wallace - The Canadian Shield; Ryan Bowling - Jeffrey Mine, Asbestos, Quebec, Canada; Daniel Kile - Thunder Bay Area Amethyst; David K. Joyce - Cobalt, Ontario Minerals; Ray McDougall - Bay of Fundy, Nova Scotia, Canada; and Jeff Scovil - Album of Canadian Minerals. In addition, a special two hour seminar with Jeff Scovil and Michael Bainbridge on fluorescent mineral photography is planned. Just like Jeff Scovil, Michael Bainbridge is a world renowned nature photographer with a specialty in minerals. Take advantage of these offerings.

Of course, there will also be the usual spectacular exhibits at the show. In concert with the show theme, the Royal Ontario Museum and the Canadian Museum of Nature will both be exhibiting. These two museums hail from Ottawa, Canada. Other exhibitors that are confirmed: Scott Rudolph, the Mineralogical Association of Dallas, four cases by Marty Zinn, John Warn with world-wide tourmalines, Mineralogical & Geological Museum of Harvard, Smithsonian Institution, Perot Museum of Nature and Science, Cranbrook Institute of Science, Denver Museum of Nature & Science, Colorado School of Mines Geology Museum, American Museum of Natural History, Cincinnati Museum Center, Tellus Science Museum, Society of Mineral Museum Professionals, Western Museum of Mining and Industry, New Mexico Bureau of Geology, Montana Tech Mineral Museum. If you are a regular show attendee, you should recognize these exhibitors as ones providing outstanding exhibits.

Hopefully you have made your plans for the show, whether you are exhibiting yourself, entering in one of the competitions, sharing in your club's exhibit, or participating in some other way. Hopefully you are also volunteering at the show. There are so many ways a person can volunteer at the show. If you have not already committed and would like to volunteer, contact your club representative. He or she will be able to guide you and help you find a suitable position.

Thanks to all the club members for their support and assistance with the show.  
Respectfully submitted, Judy Knoshaug, Show Secretary

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### **From the Denver Gem and Mineral Show Committee**

If you would like to experience a variety of volunteer jobs at the Denver Show this year, sign up for the "volunteer sampler". Arrive at the volunteer check-in desk at 10 AM on Friday, Saturday, or Sunday of the show. Our volunteer coordinator, Anita Colin, will rotate you through ticket selling, ticket taking, grab bag selling, hospitality, and security. You will be paired with an experienced volunteer at each location. After about 2 hours, end the tour with a visit to your club table. If you have already signed up for a position, please keep that position and use the "volunteer sampler" opportunity to see what else is available.

# 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.

## ***Urgent!***

The Denver Gem and Mineral Show, Sept. 11-15, 2019 is short on volunteers to help out with the show. Volunteers are needed in a lot of different areas, but there is an urgent need for help with setting up and tearing down for the show. If you can help, please contact Ron Knoshaug, [jrknoshaug@comcast.net](mailto:jrknoshaug@comcast.net), 303-423-2923.

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### **Gem and Mineral Show Parade Info**

**The Denver Gem and Mineral Show is looking for club member volunteers for a day of fun at two of the largest Denver Metro area parades!**

The Denver Gem and Mineral Show is set to participate in two of the largest Denver Metro area parades this year to help promote the show to a wider audience. The first of these is the **Wheat Ridge Carnation Festival Parade** on **August 10**, and the second one is the **Arvada Harvest Festival Parade** on **September 7**. It takes lots of willing hands and feet to make the parades a success and popularize the show even more in the Denver area. Come joins us for a day of fun and help spread the word for the Denver Show!

Volunteer positions for both parades range from truck and float driver, second driver/navigator, to walkers and float wavers. The parade will be about two to three hours long and would require walking or standing on the float and waving. For questions, you can contact the parade coordinator Iva at 720-469-2926 or [iva.veselinova@gmail.com](mailto:iva.veselinova@gmail.com).

Please go to the links below to fill out the parade form:

#### **Wheat Ridge Carnation Festival Parade 8/10/2019**

<https://docs.google.com/forms/d/e/1FAIpQLSd-KcmtD1eOut42co8Z7vIE6pjh-h-nrh8r6oNkePnUhbe68A/viewform>

#### **Arvada Harvest Festival Parade 9/7/2019**

<https://docs.google.com/forms/d/e/1FAIpQLScUUOiFYB9qG5s0zzte4C4c30eZBAf9-vfXbn4izcRIJzYB1g/viewform>

Yours sincerely,  
Iva Veselinova

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### **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. We are near running out of our current stock.

I will be at the picnic and ready to receive any that you can contribute for the booth give away. Or you can just bring them to the booth at the show. While you're at the show, sit and chat for a while. You can try your hand at faceting and maybe twist some wire into a ring

John Kleber

# Summer Field Trip Pictures.

Pictures by Jim Hooten and Lynette Warren

## Topaz Mountain, June 22



Group Shots



Dave Deard with nice Topaz



## Magnetite Ridge, June 23



Lynette Warren, Rachael Bochantin, (soon to be Rachael Warren) and Nick Warren



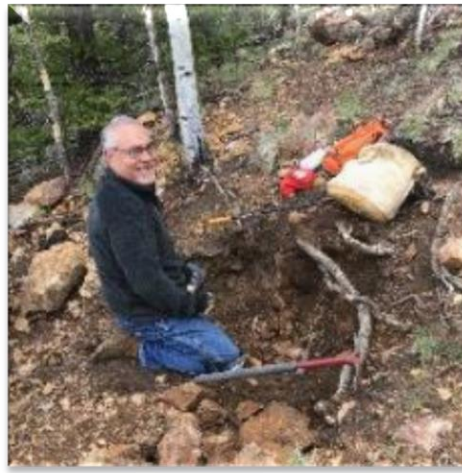
Tom DeMoss, Joanne DeMoss, Tom Henderson



Christine DeMoss with Magnetite



Tom Henderson and Tom DeMoss



Marty DeMoss

*Detroit City Mine (Alma, CO), June 28*



Jim Hooten



Group picture

Collector's Edge  
Geologist Dean  
Misantoni talking to  
Group



## Smoky Hawk Mine, July 13



Joe Dorris talking to Group



Carol Nielsen-Alt



Charlie Wall



Joe Dorris with nice amazonite-smoky quartz combo he pulled from one of his working mineral pockets



Gladys Quistorff with amazonite she found

## Crystal Peak, Montana, July 18-21

We have had a wonderful combination field trip with Sun City Mesquite Rock On Geology Club, The Butte Gem and Mineral Club, and The Littleton Gem and Mineral Club at Crystal Park in Montana. There were a lot of great finds on this trip, new friendships were made and old friendships were renewed

The Littleton Gem and Mineral Club Members attending the Montana Crystal Park Field Trip were Ron and Ann Wankner, Ed and Susan Wakefield and Lynette Warren

Lynette Warren







*RAMS (Mile High Rock and Mineral Society) Picnic, July 20*



Scott & Renee Singer



Group Eating

# Coffee Pot Springs, July 27



Sue & Fred Hurd looking for crystals before storm clouds arrive



Nick Kimber and mom, Nancy, hunting for minerals in the rain



Dave Redman



Rainbow after the storm



The group sitting around the fire

# Calendar of Coming Earth Science Events!

## August to October

**Aug. 8-11, Contin-Tail rock & mineral show**, Buena Vista Rodeo Grounds, Buena Vista, CO; see [www.facebook.com/ContinTail](http://www.facebook.com/ContinTail)

**Fri.-Sat., Aug. 9-10, “Caribou, 150<sup>th</sup> Anniversary, Celebrating Nederland’s Mining History”**. Aug. 9, 7:00 p.m., guest speaker Silvia Pettem, “Cornwall to Caribou” at Nederland Mining Museum, 200 N. Bridge St.; Aug. 10, Nederland Community Library Foundation Booksale, live outdoor music, meet pack burros, mountain authors meet & greet, world champion rock driller demonstration, guest speaker Tom Hendricks, “Live Like a Miner” activities, Gillespie House tours and children’s activities, and more.

**Tues., Aug. 13, 6:30-8:00 p.m.** Western Museum of Mining and Industry Speakers' Bureau Lecture: "**Pikes Peak or Bust: Colorado's Women '59rs**", by Julie v. L. Bell. WMMI, 225 North Gate Rd., Colorado Springs. \$5 per person, free to museum members. RSVP to 718-488-0880 or [rsvp@wmmi.org](mailto:rsvp@wmmi.org); to book in advance: <https://fareharbor.com/embeds/book/wmmi/items/133542/calendar/?flow=41147>

“Come join author J.v.L. Bell as she discusses the adventures of well-known frontierswomen like Elizabeth Byers, Augusta Tabor, and Addie LaMont and Elsa Jane Forest who took on the guise of a man; Charlotte Card who dressed like a man and mined her own claim; and Mary Randal who became one of Colorado’s first African-American settlers.”

**Aug. 15-18, Woodland Park Rock, Gem, & Jewelry Show**, Woodland Park, CO; see <https://www.facebook.com/woodlandparkrockandgemshow/>

**Aug. 16-18, Lake George Gem & Mineral Show**, sponsored by the Lake George Gem and Mineral Club, Lake George, CO. See <http://www.lggmclub.org/>

**Fri., Sept. 6, 3:00-4:00 p.m.**, [Denver Museum of Nature & Science Earth Sciences Colloquium](#), **Flowering plants enter the canopy: Fossil woods and the Cretaceous diversification of flowering plants**, by Nathan Jud, William Jewell College. VIP Room at DMNS; all are welcome.

**Sept. 6-15, Colorado Mineral and Fossil Fall Show**, Crowne Plaza Hotel - Airport, 15500 E. 40th Ave. Denver, CO.

**Sept. 7-8, 1<sup>st</sup> Annual Denver “Just Minerals Event”**, Embassy Suites Hotel, 4444 N. Havana St.; wholesale and retail mineral dealers.

**Sept. 8-16, Denver Coliseum Mineral, Fossil, and Gem Show**, Denver Coliseum; see <http://www.coliseumshow.com/>

**Wed., Sept. 11, 6-9 p.m.**, **Colorado School of Mines Geology Museum Annual Open House**, to showcase new exhibits for the opening of the Denver Gem and Mineral Show. 1310 Maple St., Golden CO; all are invited. Campus parking is free after 5 p.m.

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

**Sept. 13-15, 52<sup>nd</sup> annual Denver Gem and Mineral Show**, Denver Mart, 451 E 58<sup>th</sup> 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 poster presentations; all are welcome. At the Arbor House, Maple Grove Park, 14600 W. 32nd Ave., Golden (Applewood area). Social time, refreshments, and poster viewing, 5:30 p.m.; 7:00 p.m., oral presentations (4 15-minute talks).

**Sat.-Sun., Oct. 5-6**, the Colorado Scientific Society will host a weekend field trip, “**Geology and Geoheritage 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](mailto:rsvp@wmmi.org); to book in advance:

<https://fareharbor.com/embeds/book/wmmi/items/108438/calendar/?flow=41147>

**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.

*Thank you to Peter J. Modreski for providing this information!*

## Selected upcoming LGMC and Earth Science Events

**Sun Aug 18 LGMC Summer Picnic**, 12 noon. Sterne Park, South shelter. Don't miss it!  
For more info, see Page 1.

**Tue, Aug 20 Faceters and Cabbers**: Faceters and Cabbers group will meet on Tuesday, August 20th, which is after the picnic. We will share and discuss our creations and other items. The theme of this meeting will be Tigereye and Tourmaline. 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](mailto:jkleber@att.net) for any last minute updates.

**Sep 13-18 Denver Gem and Mineral Show** at the Denver Mart, 451 E. 58th Avenue (I-25 & 58th, Exit 215).



# Geology Corner

## The minerals that attack your concrete driveway

Those hard concrete driveways! How nice they are when first laid. Then they crack, crumble, spall and need replacing. This is not only true of your driveway, but also of our whole concrete infrastructure ranging from stadiums to dams to interstates, which costs the U.S. an estimated \$150 billion a year. What eats the concrete? It turns out that many of concrete's foes are minerals.



Concrete consists of cement paste (a complex mixture made mostly of calcium hydroxides and calcium aluminum silicates) and aggregate (sand and gravel). The process of making the cement begins with limestone and clay. These are mixed, heated, ground and treated with gypsum. Adding water to this starts a number of chemical reactions, forming calcium hydroxides (one of which is called portlandite), calcium aluminum silicates and calcium sulfates (such as ettringite). These reactions continue for days until the cement is finally set and hard. What minerals attack this formidable material?

Ice is an obvious villain. Ice is a perfectly good mineral – inorganic, naturally occurring and possessing a crystalline structure. When water freezes to ice, it expands by about 9%, exerting tremendous force on the sides of any cracks or pores into which it has seeped. As the cracks and pores enlarge, it is easier for more water to enter.

Salt is another enemy. As you spread salt on your drive way, or as salty residue drips off your car, the salt water soaks into the concrete. As the water evaporates, salt crystals grow, forcing apart cracks. Salt can have a more insidious effect, depending on what aggregate is in the concrete. If the aggregate contains poorly crystalline silica, in the form of opal or even chert, it reacts with sodium, converting the hard silica to a hydrated alkali gel.

This decreases the strength of the concrete. Since the gel occupies more volume than the original chert or opal, it further cracks the concrete and helps more water enter. By the way, Scott Wolter describes some deposits of the solidified gel material in voids in concrete that show agate-like banding. This may help us to better understand the formation of agates.

Sulfur, which occurs in soils, seawater, and acidic rain, is another enemy. Portlandite, formed during the hardening of the cement, reacts with the sulfur-bearing water to make gypsum and more ettringite. Gypsum is soft and water soluble, degrading the concrete. Both gypsum and ettringite cause an increase in volume, cracking the concrete. The more cracks, the more water and sulfate and salt can enter. This cycle limits concrete's lifetime. Millions of research dollars are going into making concrete more resistant to these attacks. The only way to avoid this completely is to build in where water, salt and ice don't occur. The nearest surface like that is on the moon. - Dr. Bill Cordua, University of Wisconsin- River Falls

### References:

Wenk, Hans-Rudolf and Andrei Bulakh 2004. *Minerals: Their Constitution and Origin*. Cambridge University Press.

Wolter, Scott, 1996, *The Lake Superior Agate*, third Edition, Burgess International Group Publishers.

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# Club Announcements



**Welcome to our new members:**

**Patricia Utrup and Christine Spitznagel**

**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).



## CAN WE BE FRIENDS?

The LGMC Facebook page has DOUBLED!

We now have over 300 individual followers and several other rock & mineral pages commenting and sharing our posts.

LIKE and FOLLOW our Facebook page for:

- Summer Field Trip Photos
- Upcoming Events (shows, meetings, field trips)
- Geological Info & News
- Monthly Trivia & Videos
- Weekly offerings like #MondayPunday, #TatTuesdays & Words of the Week!
- And of course lots of links to other clubs, gem dealers, and lapidary arts!

Are you interested in social media?

We are looking for more Facebook page editors to post articles, links, and photos that LGMC members would be interested in! Message us through Facebook for details!!!

@LittletonGemandMineralClub

*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
Treasurer	<i>Lesley Sebol</i>	720-999-1372
President elect	<i>Ron Wankner</i>	303-618-5549
Program Chairman	<i>Stefanie Hughes</i>	720-364-6850
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 🌀

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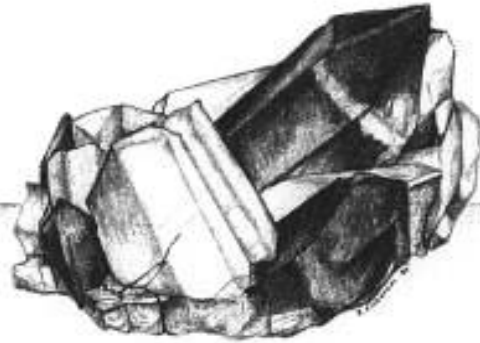
**\*\*The deadline for submissions is the 1<sup>st</sup> Friday of each month.** Please send your material by email to [jacobstammy80@gmail.com](mailto:jacobstammy80@gmail.com).

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



# *HighLites*

LITTLETON GEM & MINERAL CLUB



HARRIS PARK AMAZONITE & SMOKY QUARTZ

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