
Littleton Gem and Mineral Club

January 2020 Newsletter.



January Program:

Time and Place: January 17, 7:30 PM, St Philip Lutheran Church, 7531 S. Kendall Blvd, Littleton, CO 80128.

Speaker: Mark Ivan Jacobson

How to Identify Colorado Minerals - This presentation is aimed at providing a roadmap of the skills a beginning collector should acquire to identify most of the collectable minerals that can be found in Colorado or the adjacent states.

Presidents Message

January 2020

Happy New Year!

I had a fantastic time at our Christmas Party. It was an incredibly fun night, a huge potluck spread; awesome chili cook-off entries; the ever exciting gift exchange; the prestigious Odiorne Award; door prizes; and Santa! We also had a large donation of hats, gloves and food for St. Philips' "Sharing with Sheridan" program. Thank you to everyone for making our party a fun and festive night.



The New Year is a good time to celebrate our accomplishments, assess where we are and what we'd like to accomplish in the coming year. Last year, we achieved two major goals; find a new meeting location and improve the financial sustainability of the club. This year, my goal is to invest in our membership by expanding our programs and experiences. This means offering new opportunities to learn through hands-on classes and expanding our field trip roster. To achieve these goals, I need your ideas and help. I'm seeking a Program Chairperson to work with me so that we can bring new activities and programs to our membership. We are also looking for members to help Jim Hooten, our Field Trip Coordinator, with ideas and leading a field trip. I'm looking for volunteers to help make our club stronger and relevant to our members.

I'm excited about the opportunities that we are creating for the coming year and I hope that you join me in making 2020 a fantastic year!

Ron Wankner
President LGMC

Selected upcoming LGMC and Earth Science Events

Fri Jan 17 **LGMC January Meeting**, 7:30pm, St Philip Lutheran Church, 7531 S. Kendall Blvd, Littleton, CO 80128.

We are still in need of volunteers to bring snacks for upcoming meetings Thank you!

January 21 **Faceters and Cabbers** - The Faceters and Cabbers group will meet on Tuesday, January 21st, starting at 7:30 PM at St. Philip Lutheran Church, and we will share and discuss our creations, Christmas gifts and other items. The discussion topics will be Jasper, as the cabbing material and Garnet, as the faceting material. All Littleton members and guests are welcome to join us. If you are planning to attend and not on our email list, send me an email at jkleber@att.net for any last minute updates.

Grab Bag News Update

If anyone has any grab bag stuff; either rocks, bagged specimens, or left-over supplies, bring them to the January club meeting. I'll also have specimens anyone can pick up to bag over this winter.

Thanks for a recent donation of specimens from Nancy Kimber and Chauncey Walden.
John Kleber
The Bag Beggar



Junior Rockhounds

January 17, 2020

The Jr. Rockhounds meet after the speaker and intermission of the general meeting. This month's topic is "Introduction to Fossils." Fossil specimens will be handed out and rockhounds will learn about the origins of fossils.

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



Calendar of Coming Earth Science Events!

Dear colleagues, educators, friends,

Here is a list of upcoming earth science-related events and activities for the first two months of 2020. Wishing a happy New Year to all. Pete

USGS Seminar Series USGS has just announced our schedule of talks in the USGS Rocky Mountain Science Seminar series for 2020. Visitors are welcome to attend. The seminars take place in the Building 25 lecture hall on the Denver Federal Center, normally (all but one, Wed. Jan. 22) every two weeks on Tuesday mornings, 10:30 to 11:30. The seminars are also livestreamed online, but this is only accessible for USGS staff through their internal network. The first talk, listed below is tomorrow, Tuesday Jan. 7, *The Earth's earliest crust: Hadean origins of Paleoproterozoic crust in the Wyoming province*, by Dr. Carol Frost, Univ. of Wyoming.

Grand Canyon Float Trip July 19-28 Lew Kleinhans (member of DREGS and other societies) asks me to share that he is once again organizing a 9-day Grand Canyon float trip with a geological theme: "The *Deep Time* perspective

that the Grand Canyon conveys is crucial for envisioning a sustainable future, as we struggle with many issues such as climate change, extinctions, and resources.” – Lew Kleinhans, 720-273-9233, lewis.oysterclub@gmail.com
For a copy of a flier with more info about the trip, contact Lew (as above) or myself (Pete).

New book from Golden Publishers (John Lufkin): “Special New Year’s Book Offer”: *Tucson Mineral and Fossil Show, 2nd ed.*; \$25/copy, including postage (within the U.S). First printing of only 25 copies, Jan. 15, 2020. For a flier with more info (a contents list of the 12 mineral and fossil dealers profiled in the book) or to reserve a copy, contact John at lufk3@comcast.net.

Calendar of Coming Events

Thurs., Jan. 30, 4:00 p.m., Van Tuyl Lecture series at CSM, **The Rare Earth Elements: A Tale of Plumes, Magmas and Aqueous Fluids**, by A. E. Williams-Jones, McGill University, Montreal, Quebec. **Berthoud Hall room 241; all are welcome.**

Feb. 13-16, 66th Annual Tucson Gem and Mineral Show, sponsored by the Tucson Gem and Mineral Society (TGMS), Tucson Convention Center, Tucson, AZ. “The main show” in Tucson; other, commercial shows, in the city are open beginning January 26, 27, 28, 29, or earlier.

Thurs., Feb. 20, 7:00 p.m., Petrologic evolution of Platoro magmatic system after the eruption of the Chiquito Peak Tuff, San Juan Volcanic Locust, Colorado, by Amy Gilmer, US Geological Survey.

Monthly meeting of the Colorado Scientific Society, Berthoud Hall Room 241, Colorado School of Mines campus, Golden; all are welcome; social time & refreshments at 6:30, meeting at 7:00.

Fri.-Sat.-Sun., Feb. 28-Mar. 1, Denver Gem & Mineral Guild, Jewelry, Gem, and Mineral Show, Jefferson County Fair Grounds, 15200 W. 6th Ave., Golden, CO. Free parking & free admission; hours 10-6 Fri. & Sat., 10-5 Sun.

For more lecture series during the year see: (some of these have not yet published their schedule for 2020 talks, but some have)

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 Berthoud Hall Room 241, CSM campus, Golden, except when noted otherwise.

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, meeting dates and day of the week vary. Museum admission is not required; see <http://www.dmns.org/science/research/earth-sciences/>

Denver Region Exploration Geologists Society (DREGS); usually 1st Monday, 7 p.m., Room 241 Bethoud Hall, CSM campus, Golden; <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.

Friends of Mineralogy, Colorado Chapter, usually meets on the 2nd Thursday of odd-numbered months, 7:30 p.m., Berthoud Hall Room 241, CSM campus, Golden; see <https://friendsofmineralogycolorado.org/>.

Golden Beer Talks (2nd Tuesday, 6-8 p.m.), at the Buffalo Rose, 1119 Washington Ave., Golden. Doors open at 6; Talk begins at 6:35; Intermission – 7-7:15; Q&A/clean up 7:15-8. “Golden’s grassroots version of TED talks, Expand your mind with a beer in your hand”, <http://goldenbeertalks.org/>.

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 2020, WIPS will meet on the 1st Monday of the month, 7 p.m., in Petroleum Hall, Green Center, 924 16th St., Colorado School of Mines campus, Golden See <http://westernpaleo.org/>.

Peter J. Modreski

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

Science Camps

David Levering the director of the Sternberg Museum Science Camps sent us this information to distribute about summer programs the museum is offering.

The included links below will connect you to geology/paleontology-themed junior high and high school-age camp programs the museum is offering in 2020. The states they are taking place in are also included in parentheses.

High School:

[Field Volcanology Camp](#) (OR)

[Field Paleontology: Kansas Camp](#) (KS)

[Paleontology Research: Ancient Beasts Camp](#) (OR)

[Introduction to Fossil Preparation Methods Camp](#) (KS)

[Paleontology Technical Illustration Camp](#) (OR)

Middle School:

[Paleontology Explorers: Kansas](#) (KS)

[Paleontology Explorers: Oregon](#) (OR)

Geology Corner

WHY DO SUCH LARGE CRYSTALS FORM IN PEGMATITES?

Everyone who sees a pegmatite in the field marvels at the gigantic crystals found in them. It's exciting seeing schorl crystals several feet long or picking up large muscovite books. How do such giant crystals form? Most people guess that the large crystals must reflect some unusually slow cooling rate. They would be only partly correct. Pegmatites do form where magmas cool relatively slowly within the earth compared to the fast cooling they would experience if they had erupted on to the earth's surface.



But pegmatites are associated both in time and space with other igneous rocks that formed at the same depth and show much smaller grains. It should also be noted that large crystals can grow in the lab in the space of days or weeks. There must be something other than slow cooling to explain these giant crystals.

The solution came as a result of work done by two geologists, Richard Jahns and Wayne Burnham, who had seen a lot of pegmatites while scouting them for strategic metal resources during World War II. Later they conducted experiments with artificial granite magmas and discovered that the key factor seemed to be the presence of lots of gases (or, to give them a more technical name, volatiles) such as water, fluorine, or chlorine dissolved in the magma. These volatiles have several effects on the magma which make it possible to form pegmatites. First the volatiles make it more difficult for crystals to form in the first place. That means that there are fewer crystals growing in the magma at any one time, so they can grow bigger without interfering with each other. Second, granite magma is usually a thick sticky liquid, but the more volatiles it contains, the less thick and viscous it is and the easier it is for chemicals to move from place to place. That supplies the growing crystals with the chemicals needed to grow larger. Third there are enough volatiles the magma will eventually get so saturated in them, the volatiles will separate as watery bubbles surrounded by normal liquid magma. Crystals may grow simultaneously from both the liquid and the gas bubbles, with the larger ones forming from the bubbles. Thus it is really the presence of gases that make the growth of the large crystals possible.



What happens to these volatiles? If they stay in the pegmatite, eventually they form fluorine, chlorine or water-bearing minerals as the magma finally cools off. In other cases, they might escape from the magma.

Pegmatites are often filled with broken and re-healed crystals that may have been broken by progressive sudden releases of some of the volatiles. Some pegmatites grade into much finer-grained granites called "aplites" which could be formed if a magma suddenly loses all of its volatiles and forms only small crystals afterwards.

So the next time you see a pegmatite, just remember that you have the gas to thank for all those beautiful giant crystals.

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

Club Announcements

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

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



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

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

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 2020

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

Name(s) _____
Dues payment (\$20) _____ Renewal _____
Email address: _____

Christmas Party Pictures!





Littleton Gem and Mineral Club

Field Trip



A new field trip has been added that is a trip hosted by Lake George GMC, in conjunction with RAMS and LGMC. An email announcement has been sent to LGMC members that describes the collecting areas, the start date, and a place to respond. This information is repeated below for those not receiving emails.

LGMC has received an invitation to join The Lake George Gem and Mineral Club, and the RAMS club, for a 5-day trip next spring to western Utah to collect at 3 different claims (Searle Canyon, Solar Wind, Maynard). Two days driving (there and back), 3 days collecting). It will be from Saturday, May 2 thru Wednesday, May 6, 2020. Unfortunately, this is just a few days prior to our already scheduled trip to the Blanchard Mine in Bingham, New Mexico from Friday, May 8 to Sunday, May 10, 2020. That makes it difficult for someone to do both (although not impossible). Just a lot of driving and being gone a lot. Contact Jim Hooten if you are interested in doing one or both of these trips, preferably by email at Jahooten@msn.com.

There is a fee for collecting at these 3 claims. If there are 10 or more participants (which there should be), there will be a fee of \$40 per person, per claim, for a total of \$120 for collecting at all 3 claims. No fee is required for the New Mexico trip.

Field Trip Name: UTAH: Searle Canyon, Solar Wind and Maynards Mines (with Mile Hi RAMS and LGMC clubs)

Field Trip Date: 2020-05-02 at 09:00:00

Meetup Location: TBD

Trip Leader: Dave Alexander (LGGMC), Chris Rayburn (RAMS), Jim Hooten (LGMC)



Like us on FaceBook

LIKE and FOLLOW us @LittletonGemAndMineralClub

See you on Facebook! Nicole Bolger

Thanks to everyone who contributed to the newsletter!
~Tammy

North-Jeffco-Gem-&Mineral-Club¶
Silent-Auction¶
Friday, March 13th, 2019¶
APEX Community Recreation Center¶
6842 Wadsworth Blvd, Arvada, CO 80003¶
Setup at 5:30 PM¶
Seller limits on number of items to sell:¶
Club Members -- No limit¶
Non-members -- Maximum of 30 items¶
Auction Begins 6:45 PM¶
Checkout Begins Immediately After Auction¶
No Early Checkout¶
Free Parking, Free Admission¶
Cash or Check only¶

◆ jewelry ◆ → → gems → ◆ → → minerals ◆◆¶
◆ bake sale → → → ◆ → → → crafts ◆◆¶

◆ free refreshments ◆◆¶
◆ public invited ◆◆◆◆◆¶

If you need a finished piece of jewelry,
rough material to fashion yourself, ¶
a specimen for your collection, ¶
or an interesting and fun evening, ¶
this is the place. ¶

Sellers & Buyers Welcome ¶

For more info call Bill Jones 303-503-6288¶
Or email sidewindermin@comcast.net¶



🌀 **2020 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 |
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| Field Trip Chairman | <i>Jim Hooten</i> | 303-770-7177 |
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| Trustee (2 year term 2019 & 2020) | <i>Lynette Warren</i> | 303-956-4634 |
| Trustee (2 year term 2018 & 2020) | <i>Dan Lovitt</i> | 303-791-3112 |

🌀 **Chairpersons & Appointed Officers** 🌀

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

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

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

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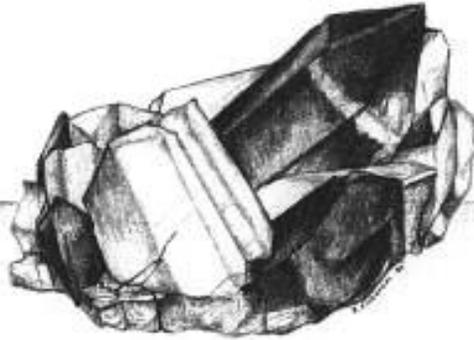
****The deadline for submissions is the 1st Friday of each month.** Please send your material by email to jacobstammy80@gmail.com.

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



HighLites

LITTLETON GEM & MINERAL CLUB



HARRIS PARK AMAZONITE & SMOKY QUARTZ

LITTLETON GEM & MINERAL CLUB
P.O. Box 283
Littleton, Colorado 80160

FIRST CLASS MAIL

