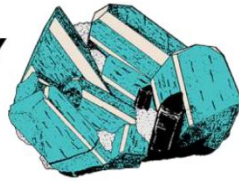


**FRIENDS OF MINERALOGY
COLORADO CHAPTER**



May 2019 Newsletter

Meeting: Thurs., May 9, 7:30 p.m.

All are welcome!

NEW meeting place (don't forget!)

Berthoud Hall room 108, CSM

Our Chapter's new meeting place: Berthoud Hall, room 108, Colorado School of Mines

campus, Golden. We've moved to the CSM campus from last year's place at the Lakeview Event Center. Parking on CSM campus streets and parking lots is free after 5 p.m.; parking along Maple or Illinois Streets should work well. Berthoud Hall is at 16th St., between Illinois & Maple; you may enter either from the east (Illinois St.), north, or west (Maple St.) sides. Go to the lower level, the 1st floor.

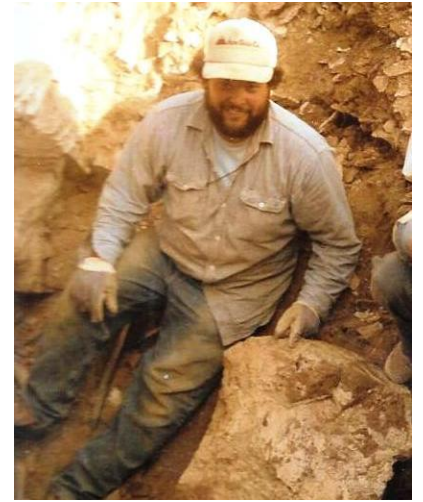
Garnet Collecting: Garnet Hill, Ely, Nevada, and Cerro El Toro, La Higuera, Sonora, Mexico

by Marty Houhoulis

Marty Houhoulis graduated in 1982 with a B.S. degree in Geology from Northern Arizona University; Flagstaff, Arizona. Mineral collecting became his passion through many field collecting excursions with friends in Arizona, including annual pilgrimages to Tucson and Quartzsite for the gem and mineral shows. Mining and Mineral Exploration became his profession for 35 years, working for large mining companies such as Phelps Dodge, Magma Copper, Rio Tinto, Sumitomo, and too many more to list. With the advent of NAFTA in the mid 1990's Marty began to work internationally on projects in Mexico and South America. Moving from place to place over the years working in porphyry copper and skarn terranes, and being an avid field collector the opportunity to explore for nice mineral specimens provided a good break from the drill core. Field collecting with hand tools is special because most of the time you enjoy the adventure but only have scraps to show for it, yet you continue. The inspiration comes from the rare instance you find something truly incredible and share it with others.



Early in his career, while working at the Robinson mine at Ruth, Nevada, Marty spent frequent weekends mineral collecting on Garnet Hill. A small hand dug pit was worked for several years amongst Marty, his friends, and many other collectors who visited the area. This small prospect produced hundreds of good garnet specimens. One of the finest of Marty's finds was sold to Dave Bunk Minerals during the early 1990's and was then sold via Paul Pohwat, Mineral Curator, to the Smithsonian Institute where it has now been on display for more than 25 years.



Garnet (manganese-rich almandine) crystals in rhyolite, Garnet Hill, near Ely, White Pine County, Nevada

While working and living in Alamos, Sonora, Marty was exposed to one of the most prolific garnet skarn regions in North America. During the two years he lived there Marty accompanied by local guides visited many areas with well crystallized garnet occurring in a wide variety of colors, shapes, and sizes. One hot Saturday on top of Cerro El Toro and buried in the roots of a large tree Marty discovered several hundred fine andradite garnet specimens, one of which resides in the Arizona Sonoran Desert Museum today.



Alamos #1: A large andradite garnet specimen (7-1/2" x 5"), with crystals in access of 1", (reverse side), with quartz & actinolite and demantoid overgrowths. Cerro El Toro, La Higuera, Sonora, Mexico. Alamos #1 is a giant specimen, a long vug formed by columnar growths of large deep brown andradite crystals. The vug is lined with hundreds of small clear orange to cherry red garnet crystals perched on top of the larger crystals. This specimen is unique in the entire lot. Marty Houhoulis, self collected in the spring of 1997 near the peak on Cerro El Toro.



Alamos #2; a small cabinet specimen of andradite garnet (3-1/2" x 2-1/2"), with one-inch crystals. A plate covered by very lustrous, large deep brown andradite crystals. The large crystals are sprinkled with small clear orange to yellow garnet crystals perched on top of the larger crystals. There were fewer than six of this quality in this small cabinet size. Marty Houhoulis, self collected in the spring of 1997 near the peak of Cerro El Toro.

Alamos #3, exceptional stalactitic andradite garnet, specimen 3-1/4" long, 2" diameter. Cerro El Toro, La Higuera, Sonora, Mexico.

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From the President:

Happy Springtime to All,

Of course, living in Colorado this time of year it can be spring one day and winter the next. At least up here where I live (above Bailey) it is still mostly winter although it was nice enough to go fishing one day last week. Needless to say, the field collecting season is still a couple of weeks away depending on the elevation of where you collect.

I attended the Spring Mineral and Fossil Show and Dave Bunk's Open House in April and picked up some goodies for my collection; both events seemed to be well attended. Now I am looking forward to the upcoming summer mineral shows here in Colorado.

If you haven't paid your 2019 dues it is time to pay if you forgot. You can send a check to our address at Friends of Mineralogy – Colorado Chapter, P.O. Box 234, Arvada, CO 80001 or come to the meeting on May 9th at the Colorado School of Mines Berthoud Hall room 109 at 7:30 PM.



Speaking of our meeting on May 9th on the CSM campus, our speaker will be Marty Houhoulis, who will be giving a talk on collecting garnets near Ely Nevada, Mexico and other locations. Also, in May don't forget our Silent + Live Auction on May 19th at the Clements Recreation Center in Lakewood at 1580 Yarrow St. Setup starts at 11:00 AM and bidding starts at noon; things will wrap up by 4:00 PM. We are looking for volunteers to help with refreshments for the event, and there will be a signup sheet at the May meeting.

The board of directors have authorized an extra meeting for October; we are currently looking for a speaker for this meeting and will let everyone know in September who it will be. Along the lines of speakers, if you have an idea for a speaker or know someone who would like to speak on a subject pertaining to minerals, collecting or mining please contact our vice-president, Gloria Staebler (gastaebler@aol.com).

Thinking ahead, we are looking for volunteers to help with the Denver Gem and Mineral Show in September. There are lots of opportunities available to help with the event, which is put on by all the mineral clubs in the Denver area. Since this is an all-volunteer event, any help that our group can provide is appreciated. We need volunteers not just for our own Free Mineral Identification Booth, but for any of the other show tasks (set-up, take-down, security, ticket sales, give-away of gold nugget specimens to kids at the gold panning area (a fun job!), and more. A signup sheet will be available at the May meeting or you can contact Dave Bunk (dave@davebunkminerals.com) if you can't make the meeting.

Hopefully if you collect you can get out and enjoy a bountiful and successful summer. Regardless, have a safe summer!

Bob Hembree

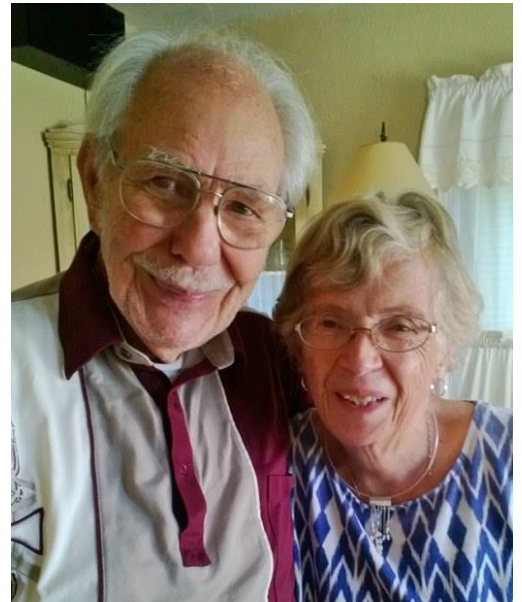
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Jack D. Thompson, Sept. 29, 1929 – Feb. 21, 2019

Jack Thompson, of Colorado Springs, longtime member of Friends of Mineralogy as well as of the Colorado Springs Mineralogical Society, passed away on February 21, 2019, at the age of 89. A memorial service was held on March 27 at the Broadmore Community Church, Colorado Springs. He is survived by his wife, Kaye, also an FM member.

Jack was much liked and will be very much missed by his many friends, in and out of the mineral community. He was also for many years at volunteer in the Earth Science Department at the

Denver Museum of Nature and Science, and he loved helping to organize their mineral collection and records thereof. Jack's special interest in collecting and studying minerals was in quartz crystals and in studying their morphology and crystallography. He was also known for giving presentations about Colorado mining history to clubs and schools, dressed in his garb as "The Old



Prospector", accompanied by his faithful (built out of wood) burro, Samantha. Larry Havens is preparing a memorial article about Jack, to be published later this year in Rocks & Minerals magazine. Photo above, Jack and his wife, Kaye. Left, a guest exhibit about quartz crystallography by the Thompsons, on display at the New Mexico Bureau of Mines & Geology Museum.

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Our Silent Auction, Sunday, May 19, Clements Community Center, 1580 Yarrow St.

Setup for the auction will begin at 11 a.m.; auction begins at 12 noon, with our vocal auction of selected specimens at 1 p.m. Tables will all be closed by 3, and checkout should all be finished at 4. To get a buyer+seller number in advance contact Mark Jacobson; see more information on the attached flier.

All members are asked to bring some refreshments items to share among members and guests at the auction—thank you!

FM expresses its thanks and sincere appreciation to all the following dealers and individual who have donated specimens in advance, for the auction (please remember to thank these dealers when you see them at future shows!) (Hope we didn't miss anyone!):

- Alternate Minerality - Bill and Marcella Hutchinson
- Bob Hembree
- Collector's Edge - CE Wholesale
- Costigan's Minerals West - Brian Costigan
- Dan's Used Rocks - Dan Unruh
- Danzrockshop - Dan Zellner
- Donald K. Olson and Associates - Don Olson
- Great Basin Minerals, LTD. - Scott Kleine
- Larry Havens
- Leonard Himes Minerals - Leonard Himes
- Prospector's Choice Minerals - Ron Anderson
- Self-A-Ware Minerals - Jeff Self and Donna Ware
- The Mineral Stope Collection, LLC - Lori and Daryl Lamb
- Top Gem Minerals - Jason New
- Marty Zinn

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Board Meeting, Treasurer's Report, and Membership News

To keep our members informed about what's going on in the Chapter, we are printing a summary of our last board meeting, and a short treasurer's and membership report, here in the newsletter:

Minutes of April Board Meeting

FRIENDS OF MINERALOGY, COLORADO CHAPTER, Board Meeting Minutes

Wednesday, April 17, 2019, Village Inn, 3160 S Wadsworth Blvd., Lakewood CO

Meeting called to order, 6:08 p.m., by Bob Hembree, President

Present: Bob Hembree, Gloria Staebler, Dave Bunk, Larry Havens, Don Bray, Jeff Self, Donna Ware, Pete Modreski. Pete, acting as secretary to record minutes. Not present (not available), Ed Pederson (Secretary), Mark Jacobson (Treasurer).

Minutes from the previous meeting – none at hand, no action.

Treasurer's Report – Treasurer not present, no report this month.

Badges, status: It was agreed to go ahead, get the info from Mark about exactly how to have the badges made, and place the order. It was moved (Gloria) and seconded (Jeff) and approved, to have the badges made and provide each paid 2019 member one badge. Any future replacement badges would be at cost to the member.

Speakers: The Board expressed appreciation to Gloria for doing a great job getting speakers. A change needs to be made for the May speaker: David Stout, our intended speaker on Argentina rhodochrosite, needs to go to South America for business and cannot give the program this month. Instead, our speaker will be Marty Houhoulis (Westcliffe, CO), on his extensive experience field collecting garnet at Ely, Nevada, and elsewhere.

Auction: Our silent+verbal auction will take place as planned, Sunday, May 19, at the Clements Center. Setup at 11 a.m., auction begins at 12 noon, verbal auction at 1 p.m., finished by 3 p.m., out of the building by 4.

Dealer donations: Both Bob and Larry collected some specimen donations from dealers at the April show. Dave will check with Marty Zinn to see if he has also already given donations to someone for FM. Bob will check with Collector's Edge at their wholesale shop, to see about getting some additional donations from them.

Food & drink: We agreed that someone needs to be in charge of supervising refreshments for the meeting, and that all FM members be encouraged to bring some kind of snack food. We'll make a strong point of asking members to bring food items, in our newsletter and at our May meeting. FM will probably once again buy & provide some of the major food items (like sub sandwiches).

Beer flats: Bob and Dave will both collect & bring flats to the auction.

Credit card use: We'll have our "Square" ready to go for credit card purchases.

Auctioneer: We'll ask Bruce Geller if he'll be auctioneer for the verbal auction; Larry is alternatively available. [Note, I talked to Bruce on 4/18, he says he'll be happy to be the auctioneer.]

Signup to help at the auction: Gloria will prepare, for our next meeting, signup sheets for helping to bring food and to help with table closing, as well as an updated page of bidding sheets. Pete already has a flier about the 2019 auction; it may need to be updated, to show whom to contact for info and bid/sell numbers.

Bidder/seller numbers: Lou Conti has done this in the past, but we believe that Mark, as our Treasurer, would be a good person to do this. Bob will talk to Lou and confirm that someone else (Mark) should do this.

Auction publicity: Pete already sends fliers about the auction to all the other clubs' newsletter editors; he'll send out fliers again to them. We'll try looking into more online/social media means (the "Nextdoor" community bulletin boards, and through the City of Lakewood?) to publicize our auction to a wider audience.

Additional meeting dates: We agreed that it would be a good idea for FM to have more meetings instead of just every other month; to hold meetings in April and in October. It would promote more continuity of members coming more regularly to our meetings, and give Gloria more flexibility in having more meeting dates to offer to prospective speakers. Gloria moved, Jeff seconded, and it was approved, to plan for meetings in October 2019 and in April and October 2020. If speakers turn out not to be available for some of these months, we don't have to hold those extra meetings, and once we see how this works out, we'll decide whether to continue meeting 7 times a year instead of 5. Gloria will check & confirm that the room in Berthoud Hall is available for these extra meetings.

Detroit City mine (Sweet Home mine area) field trip: Collector's Edge has been offering to give field trips to visit the new Detroit City mine operation, where they are exploring for rhodochrosite veins on the hillside above the Sweet Home mine. We will take them up on this. Dave will contact Collector's Edge to see about confirming a date; Friday, June 7, is our suggested good date for a trip. The Friends of the CSM Museum are hoping to have trips to the mine on June 21 and July 27, and some of the other clubs are looking into trips as well. We are told that they would prefer to offer trips on Fridays, for a maximum of 24 people, 12 of whom will go up to the mine at a time. All who attend must be 2019 paid-up members of FMCC.

Denver Museum of Nature and Science Liaison: We discussed whether we still need to have a person appointed to be "FMCC Liaison to DMNS". We needed to do this in the past, when we were an official DMNS affiliated organization, to be the contact person to schedule our meetings at DMNS, and to insure we kept current with our museum affiliation status; normally, the Liaison has been someone who is a regular DMNS Earth Sciences Volunteer. Since we are no longer meeting at DMNS, and are no longer paying to be an affiliated organization, the position seems not to be necessary at this time. We can revisit this, at such time as more meeting rooms become available again at DMNS. Alan Keimig has been listed in our list of officers and committee chairs in our newsletter, as DMNS liaison. Bob will call and talk to Alan, and explain that we'll cease listing him in this position as it no longer seems needed.

Show Committee reports: Dave Bunk (as well as Larry and Gloria) spoke on behalf of the Denver Show Committee. In general all is going well with the show and the committee, although a continued challenge tends to be, advertising and publicizing "our" show (The Denver Gem and Mineral Show), so that people do not confuse it with the show held at the Denver Coliseum. Our best plan to always emphasize to friends and people

we meet, that the show at the Denver Mart is the “Main” show, the one with museum exhibits, special activities (like gold panning) for kids, etc.

We talked about how we need to encourage FM members to participate more as volunteers at the Denver Show; both at our own Free Mineral Identification booth, and at other show volunteer positions (which don't require “special skill” at mineral identification) which anyone can do. Gloria noted that more volunteers are needed for the giveaway of gold nuggets to kids who do take part in the Gold Panning; the gold panning itself is conducted by the Gold Prospectors Association, but the special giveaway of gold nuggets to kids who find the metal tokens in their gold pans, is independently done by the Show Committee, which provides the gold specimens—this is something that FM members could readily volunteer to help with, as well as other Show volunteer tasks such as Setup, Take-Down, Security and Ticket Sales. Gloria will insure that sign-up sheets for the show jobs, as well as our Mineral Identification, are available at our May meeting and our auction.

New Business: none, beyond the things already discussed. The meeting was adjourned at about 7:30 p.m.

---Pete Modreski, acting secretary, April 19, 2019

Treasurer & Membership Report, May 2019

Final expense distributions have been completed for both the Southwest mineral Symposium of August 2018 and the three mineral journal (1885-1892) republishing project, which was jointly done with the Mineralogical Record. Both projects were completed without any expense to the Friends of Mineralogy – Colorado Chapter; funding was completely covered by the participants.

As of May 2, 2019, the Colorado Chapter has 54 paid members, including 2 new members since the last report. This includes 10 out-of-state paid members. We are carrying on our membership list 86 total members, meaning 34 members last year have not renewed which includes 5 out-of-state members from last year.

---Mark Jacobson, Treasurer

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Denver Gem & Mineral Show Mini Report May 2019

THE DENVER GEM & MINERAL SHOW WILL BE HERE SOON! The dates are September 13 - 15 and the venue is the usual Denver Mart, located at 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. The show is always fabulous and we hope all the club members are looking forward to fully participate in all it has to offer.

The Greater Denver Area Gem and Mineral Council, composed of the eight local mineral and fossil clubs, is the legal owner and sponsor of the show. The Council is a non-profit organization under IRC Code Section 501(c)(3) and was formed: "for exhibition, exploration, experimentation, and education in the earth sciences; for the discovery, development, and preservation of minerals and mineral deposits; and for the advancement, encouragement, and utilization of the principle of art and craftsmanship as applied to gems and minerals". As a non-profit organization, the Council makes grants to other non-profits in furtherance of its mission. The Denver Gem & Mineral Show is the vehicle providing the funds for the grants. Since 1988, the Council has distributed more than \$500,000 back to the earth science community statewide. Just a few examples: grants were provided to help fund dinosaur track stabilization at Dinosaur Ridge, a paleontology program in preparation for Science Olympiad at Platt River Academy, mineral storage cases for the Bessemer Historical Society Museum in Pueblo, and LED lighting of mineral displays at Hinsdale County Historical Museum. This is quite an accomplishment! But the show is so much more! Through its activities, the show fosters collection, serious study, exhibition, education, preservation, appreciation, specimen availability from dealers, and creating interest in the general public of minerals, gems and fossils. Many mineral and fossil specimens would never be seen if they were not on exhibit at the show. The show provides an event for local hobby enthusiasts to fully immerse themselves in the wonders of minerals, gems and fossils.

Grab Bags - Grab bags are those little cloth bags filled with 10 separately bagged mineral or fossil specimens sold primarily to kids for \$1. You may think that they are **no big deal** but you would be wrong! Club members spend countless hours collecting, cleaning, labeling, bagging, and assembling the cloth bags. Currently, each club provides 500

bags to the show annually. Now 500 times 10 equals 5,000 specimens that each club stuffs in those bags! I am acquainted with many of those specimens and I can tell you that some are excellent specimens. Just think, a grab bag may be the spark that ignites a lifelong interest in minerals and/or fossils for some child. Since 1968 grab bags have been a part of the show with an initial price of \$0.25. Over the years the price has increased to \$1. Since 1986 the proceeds from the grab bags have funded scholarships for students at the Colorado School of Mines. Since 1980, scholarship funds in excess of \$115,000 have been distributed. I think that is a big deal!

There are some vacant positions on the committee that need to be filled. Since George Daggett is now the Show Chair, a new Grab Bag Chair is needed. This is an easy job. Also needed are Treasurer Assistant, Door Prize Chair, Dealer Assistant, and Security Assistant. So why not join the Show Committee! It's not all work! You will meet new people and have new experiences in this hobby we all love. Contact George Daggett and come to our next meeting on Tuesday, May 7th.

The Denver Gem & Mineral Show is an exceptional event and one that every club member should be proud to volunteer for, support, and enjoy!.

Respectfully submitted, Judy Knoshaug, Show Secretary

(Source for financial figures is *The Denver Gem & Mineral Show - A Retrospective*, pages 38-39, 102, and 128.)

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Denver Show Mini-Report, Addendum

The 2019 Denver Gem and Mineral Show, September 13-15. **Expo Hall, Denver Mart, 451 E 58th Ave, Denver**

The Denver Show is our show!

Over 50 years ago, several Denver-area rock clubs combined forces to create the Denver Gem and Mineral Show. Our show has grown over the years to become the second largest show of its kind in the United States.

The eight clubs that currently produce the Denver Show are: Colorado Mineral Society, Mile Hi Rock and Mineral Society (RAMS), Flatirons Mineral Club, Littleton Gem and Mineral Club, Denver Gem and Mineral Guild, North Jeffco Gem and Mineral Club, Friends of Mineralogy (Colorado Chapter), and Western Interior Paleontological Society (WIPS).

The Denver Show is run entirely by club volunteers!

Several members from each club serve on the show committee, which plans all aspects of the show. On the three days of the show, scores of volunteers are needed to sell tickets, take tickets, sell grab bags, serve food to the other volunteers, patrol the show as "security eyes", and work at the individual club tables.

Sign up to volunteer at this year's show! Choose a day and a job that works for you or sign up as a "do anything" volunteer. This year you can even sign up for a volunteer "sampler" to work at several different jobs to find your favorite. For the sampler, just pick a day and arrive at the volunteer check-in desk by 10 AM.

Respectfully submitted, Anita Colin, Volunteers Chair

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Dues for 2019: *If you have not yet done so, if you wish to remain a Friends member, please send us your 2019 dues payment as soon as possible; a membership form is attached as the last page of this newsletter, or, see our website, <https://friendsofmineralogycolorado.org/> . Dues are \$15 for individual, \$25 for a family. Dues automatically include membership in the National organization, Friends of Mineralogy, Inc. Send payment to FMCC, P.O. Box 234, Arvada CO 80001-0234. We are organizing a field trip to visit the Detroit City mine this summer, hopefully in June; only paid-up members will be allowed to participate.*

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FM Colorado Chapter meetings:

Meetings are normally held at 7:30 p.m. on the 2nd Thursday of alternate (odd-numbered) months. Our meeting place for the remainder of 2019 will be as with this month, Berthoud Hall Room 109 or 108, at 16th and Illinois Streets, Colorado School of Mines campus, Golden.. Meeting dates may be shifted in September and November so as not to conflict with the Denver Gem & Mineral Show or the New Mexico Mineral Symposium. Visitors are *always* welcome at our meetings! Planned meeting dates for the rest 2019 will be:

- Thursday, May 9, FM meeting,** Marty Houhoulis, Collecting Garnet in Nevada and Mexico
- Sunday, May 19, FM Silent Auction,** Clements Community Center, Lakewood, *see flier & bid slips attached!*
- Sept. 13-15, Denver Gem and Mineral Show; 2019 show theme, “Minerals of Canada” (52nd annual show)**
- Thursday, Sept. 19, FM meeting,** speaker, Dr. Virgil Lueth, topic TBA
- Thursday, Nov. 14, FM meeting,** speaker, Dr. Terry Wallace, **Gold: A journey from the Big Bang to the forest of the Amazon”**

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Friends of Mineralogy, Colorado Chapter, 2019 officers:

- President:** Bob Hembree, rhembree@comcast.net, 720-201-5486
- Vice President:** Gloria Staebler, gastaebler@aol.com, 303-495-5521
- Treasurer:** Mark Jacobson, markivanjacobson@gmail.com, 1-337-255-0627
- Secretary** Ed Pederson, mineraljeep@aol.com
- DG&MS Council Trustee:** David Bunk, dave@davebunkminerals.com;
Alternate, Mark Jacobson
- Newsletter editor:** Peter Modreski, pmodreski@aol.com, 720-205-2553
- Field trip planner** (not field trip leader): unfilled
- FMCC Website:** unfilled
- Postings for the FM national facebook page:** unfilled
- At-large Directors:**
 - Don Bray, don_bray@copper.net , 303-681-3646
 - David Bunk, dave@davebunkminerals.com
 - Larry Havens, lwrnchavens@comcast.net, 303-757-6577
 - Peter Modreski, pmodreski@aol.com, 720-205-2553
 - Jeff Self, selfawareminerals@gmail.com, 303-898-7539

Calendar of Coming Events, 2019

Thurs., May 9, 7:30 p.m., Friends of Mineralogy, Colorado Chapter, bimonthly meeting: featuring Marty Houhoulis, of Westcliffe, CO, on **“Collecting Garnet in Nevada and Mexico”**. Marty will talk about his longtime experience field collecting garnet crystals, particularly at Garnet Hill, Ely, Nevada, and Cerro El Toro, La Higuera, Sonora, Mexico. FM’s previously scheduled talk, “Rhodochrosite from the Capillitas mine, Argentina” by David Stout, had to be rescheduled to a future date. Meeting in Berthoud Hall, Room 109, Colorado School of Mines campus, Golden. All are welcome.

Fri., May 10, 2:00 p.m., Denver Museum of Nature & Science, Earth Sciences Colloquium, [note 2 p.m. start time; a 2nd talk follows at 3:00] **“The dinosaur resurrection: Modern birds, and their rise from Chicxulub’s ashes”**; Dan Field, Univ. of Cambridge. VIP Room, DMNS; all are welcome, museum admission is not required. 2nd presentation this same day: 3:00 p.m.: **The end-Permian mass extinction from a high southern palaeolatitude perspective**, by Chris Fielding, Univ. of Nebraska.

Fri.-Sat., May 10-11, 9 a.m. – 4 p.m., **“Rock and Stone Sale”**, “Minerals, faceting rough; we have acquired too many rocks; fluorite, quartz, halite, petrified wood, topaz, obsidian, faceting rough, aquamarine, and lots more”. By 3 Colorado Springs area collectors; 5309 Flintridge Dr., Colorado Springs 80918; questions, contact fs_rosenberg@hotmail.com.

Sat., May 11, 10 a.m. – 4 p.m., **“Dan’s Used Rocks” Annual Open House and Clearance Sale**, at Dan Unruh’s home, 12296 W. Mississippi Ave., Lakewood. “Eliminating my non-thumbail inventory; hundreds of specimens at 50%-75% off; numerous inexpensive flat lots with quantity discounts”. Email dansrocks@comcast.net, H 303-986-3647, C 303-437-9643.

Mon., May 13, 11:30 a.m. – 1:00 p.m., **The Belle Monte Iron Furnace, Marshall, Colo.**, by Beth Simmons and Bill Reich, at the weekly meeting of the Denver Mining Club. All welcome; at the Golden Corral Buffet, 3677 S. Santa Fe Dr., Sheridan (west side of Santa Fe Dr., south of Hampden). Purchase of lunch is required.

Tues., May 14, 7:30 p.m., Colorado Scientific Society annual Emmons Lecture, by **Dr. Mark Barton**, Univ. of Arizona, Lowell Institute for Mineral Resources, **Synthesis, serendipity, and an open mind: timely approaches to timeless challenges in mineral deposits**. To be held in the Ben H. Parker Student Center, CSM campus; all are invited to attend. This public presentation will take place in conjunction with a 2.5-day USGS-CSM joint Mineral Resources Forum.

Wed., May 15, 3:00 p.m., Denver Museum of Nature & Science, Earth Sciences Colloquium, **“Before there were ankylosaurs there were aetosaurs”**; Andy Heckert, Appalachian State Univ. In Studio 102/103 (not in VIP Room) DMNS; all are welcome, museum admission is not required.

Sun., May 19, Friends of Mineralogy, Colorado Chapter, Silent (+Vocal) Auction. Noon to 4 p.m. (setup begins at 11 a.m.), Clements Community Center, 1580 Yarrow St., Lakewood CO. All are welcome to attend.

Sun., May 19, 8:15 a.m. – 5:00 p.m., Colorado Scientific Society, Spring Field Trip, **“Denver Basin Geology and Its Rich Cultural, Mining, and Industrial History”**. Stops, all near Golden, will include the Magic Mountain paleo-Indian archeological site; the Chieftain clay mine; the sites of the White Ash and Loveland coal mines; and the Quaternary geology of Clear Creek. Led by Mark Mitchel (Paleocultural Research Group), Jason McGraw (General Shale Brick Co.), Donna Anderson (Colorado School of Mines) and David Lindsey (USGS). Interested non-members are invited to join the CSS for this trip, if they pay a \$10 fee to join the trip. If you wish to come, please contact Cal Ruleman in advance, cruleman@usgs.gov, 303-236-7804; leave your name, email address, and cell phone number. The trip will meet and car pool from the west end of the Woolly Mammoth Rideshare Lot, on the south side of US-40, west of the I-70/US-40/Highway 93 interchange, exit 259 (meet at the Lariat Loop kiosk, at the west parking lot entrance opposite the Exxon gas station). For more info see <http://coloscisoc.org/>.

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.

Tues.-Wed.-Thur., June 4-6, Two rock and mineral + geology classes for educators, with registration and teacher recertification credit through the Colorado School of Mines Teacher Enhancement Program. See <https://te.csmospace.com/register.php>, Summer 2019 courses, for **Rocks & Minerals, June 4-5**, CT-9666-19D,

fee \$110, 1.0 credit hour; and **Walking Tour of Building Stones in Denver, June 6**, CT-04131-19D, fee \$80, 0.5 credit hour; plus many other classes available through CSM. One of the other classes is **Dinosaur Ridge Teacher's Workshop, July 9-10**, CT-9206-19M, fee \$125, 1.0 credit hour.

Wed., June 5, 3:00 p.m., Denver Museum of Nature & Science, Earth Sciences Colloquium, “**Deciphering dinosaur lives: From microscopes to Madagascar**”; by Kristi Curry Rogers, Macalester College. In Ricketson Auditorium (not in VIP Room) DMNS; all are welcome, museum admission is not required.

Mon., June 10, 3:00 p.m., Denver Museum of Nature & Science, Earth Sciences Colloquium, “**Cursed seashells: Deciphering one of the most ubiquitous Paleozoic fossils, Rafinesquina**”; by Ben Dattilo, Purdue University. In Community Room (3rd Floor), not in VIP Room, DMNS; all are welcome, museum admission is not required.

Leonardo da Vinci at the Colorado School of Mines, Arthur Lakes Library: In addition to the **Leonardo da Vinci: 500 Years of Genius** exhibit now in progress at the Denver Museum of Nature and Science (see <https://secure1.dmns.org/leonardo-da-vinci-500-years-of-genius>), there is another excellent exhibit about his work, currently on display at the Lakes Library on the CSM campus. The **Machines of Change: The Da Vinci Machines** exhibit includes “over 60 authentic reproductions of machines and devices designed by Leonardo DaVinci were created using similar materials, building techniques and tools that Leonardo would have had access to in his time”, plus full-size reproductions of Leonardo's most famous paintings. The exhibit, free to all visitors, is spaced around the corridors and reading rooms of the main floor of the library. Library hours are 8 a.m. to 8 p.m. most days, 12 to 6 weekends. They say that the exhibit at CSM will be open until mid-July.

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 food or drink; 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; normally on Sundays at noon; all interested persons are welcome to attend the meetings and trips; see <http://www.fss-co.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 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/>.



Prospective members for the Colorado Chapter, please send this form with your check to the address below. This form may also be used to renew your membership. Membership in the local chapter includes membership in the National Society. A local chapter member does not need to live within the area. Membership lists are not shared outside of the organization. Membership in the local chapter provides membership in the Rocky Mountain Federal of Mineralogical Societies (RMFMS) with its associated group 3rd party liability insurance for field trips.

Please mail annual dues of \$15 for an individual, or \$25 for a family made out to Friends of mineralogy, Colorado Chapter to:

Ms. Gloria Staebler

Friends of Mineralogy - Colorado Chapter
P.O. Box 234
Arvada, CO 80001-0234

Please complete the following for new members.

Last Name: _____ First name: _____

Middle name (optional): _____

Street Address (used for mail): _____

City: _____ State or Province: _____

County: _____ Zip or Postal Code: _____

Telephone (land line): _____ Telephone (Cell phone): _____

Email address: _____

Signature: _____ Date: _____

My primary area of interest is: _____

Chapter and National newsletters will be sent to you by email unless you request a paper copy to be mailed. _____ Please note that mail newsletter as sent as a black and white paper copy.

Friends of Mineralogy Colorado Chapter is affiliated with the Mineralogical Record Magazine, The Mineralogical Society of America (MSA), the American Geological Institute (AGI), Rock and Minerals magazine, the American Federation of Mineralogical Societies and the Rocky Mountain Federation of Mineralogical Societies.

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