

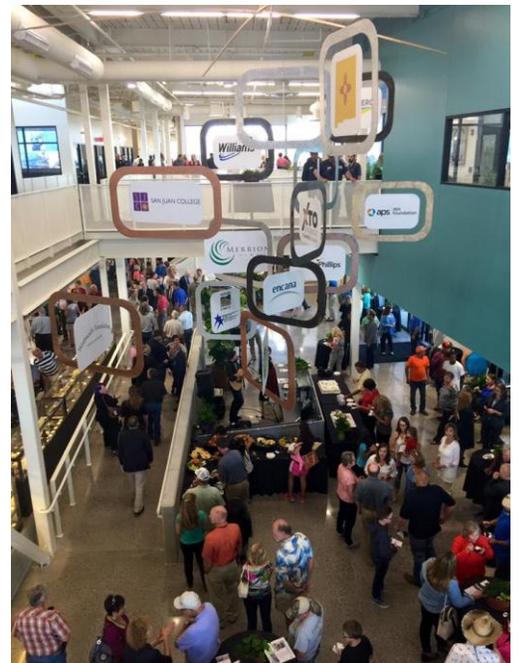
## Friends of Mineralogy, Colorado Chapter Newsletter – January 2016

*and*

**Jan. Meeting – Thursday, Jan. 14, 7:30 pm** (Board meeting 6:30-7:30)  
Denver Museum of Nature and Science – VIP Room (1<sup>st</sup> Floor) *Enter the Museum through the Security/Staff entrance to the left of the main entrance.*

***The Sherman Dugan Museum of Geology, San Juan College, School of Energy, Farmington, New Mexico  
by Jeff Self and Donna Ware,  
Museum Co-Curators***

Jeff Self and Donna Ware are well-known mineral collectors, specimen miners, dealers (Self-a-Ware Minerals), and members of our Friends of Mineralogy – Colorado Chapter. Also having a strong interest in mining history, they are in charge of the chapter's Oral Mining History project, interviewing and making audio recordings of persons in Colorado who have had longtime association with mining for ores or mineral/gem specimens. Recently, Jeff and Donna have provided help and advice to San Juan College to create mineral exhibits in its newly opened Sherman Dugan Museum of Geology. Jeff and Donna serve as the Co-Curators of the Dugan Museum.



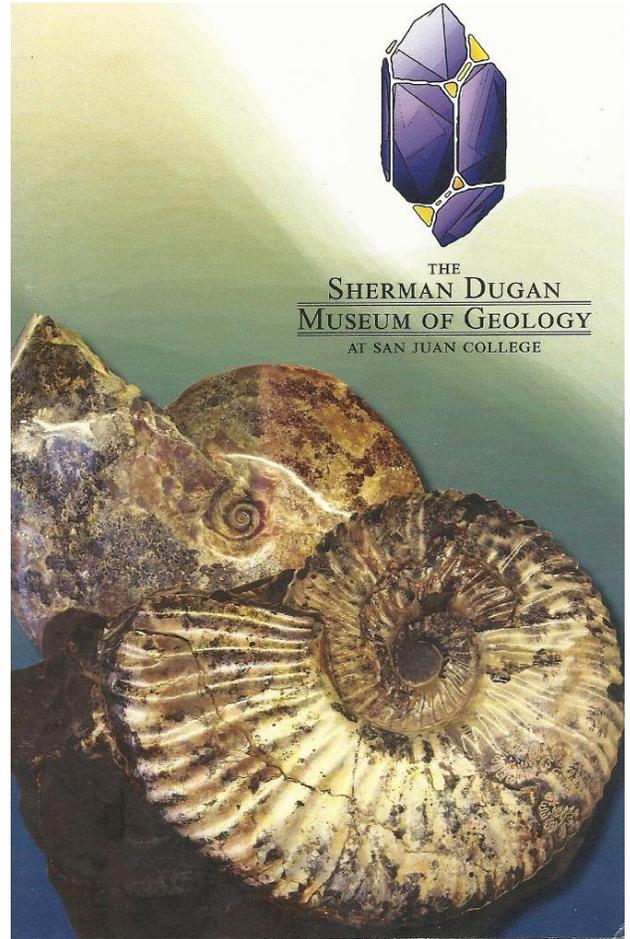
Above, Grand Opening of the Sherman Dugan Museum on Sept. 15, 2015. Left, visitors (Sherm Marsh, Mark Jacobson, Dan Wray) with co-curator Jeff Self, touring the museum on Nov. 12. Photos from Dugan Museum facebook page.



Above, at the Sept. 15 Dugan Museum Grand Opening. Photo from the Museum facebook page.

Below, “Donna Ware mining a pocket of topaz” and ”Jeff Self emptying out a pocket of topaz in Colo.'s Tarryall Mountains”, both from “Getting the dirt on Colorado’s precious stones”, by Shanna Lewis, Colorado Public Radio *Colorado Matters*, Jan. 2, 2014.

Photos courtesy of Self-A-Ware Minerals.  
See: <http://www.cpr.org/news/story/getting-dirt-colorado%E2%80%99s-precious-stones>



The Sherman Dugan Museum of Geology at San Juan College showcases an array of beautiful minerals, including a fluorescent display, and unique fossils from around the world. Housed in San Juan College’s School of Energy, the Dugan collection is one of the most comprehensive displays in the Four Corners area and has been noted for its quantity and diversity—from a 35-million-year-old rhinoceros skull to a breathtaking amethyst geode. An interactive sandbox entices both children and adults with the ability to create mountains and rivers with the swoop of a hand.

The Sherman Dugan Museum of Geology is made possible by the generous donation of the Dugan Family through the San Juan College Foundation. The gift serves as a tribute to the late Sherman Dugan and is a testament to his passion for Geology and support of San Juan College.

The Dugan collection has already inspired gifts and loans, and it is anticipated that this will continue and grow.

 SAN JUAN COLLEGE  
School of Energy

5301 College Boulevard, Farmington, NM  
Hours: Monday - Friday, 6:30 a.m. - 7 p.m.  
Contact: [museumofgeology@sanjuancollege.edu](mailto:museumofgeology@sanjuancollege.edu)  
580-574-1253 or 505-566-3325

### ***More about Jeff and Donna, and the Sherman Dugan Museum***

The Sherman Dugan Museum of Geology at San Juan College in Farmington New Mexico opened its doors to the public on September 15, 2015. This was a rare opportunity to photo-document the process of creating a new mineral museum from the beginning. Our presentation is about the creation of the museum, starting with the building of the facilities, creating the warehouse, designing the interactive children's element, and transporting and cleaning the minerals and fossils; implementing the ideas to create the finished product. It is a new geology museum to broaden the public's knowledge of minerals, fossils, and geology and to intrigue visitors young and old.

Jeff Self and Donna ware have been involved in the Colorado mineral community for more than 25 years as Colorado mineral collectors, mineral dealers, and museum consultants. In 2015 they were hired by the San Juan College to consult and create the new Sherman Dugan Museum of Geology in Farmington New Mexico. They are now the part-time curators of the new museum.

### ***Friends of Mineralogy, Colorado Chapter, message from the Chapter president***

Greetings, members,

This has been another successful year, with only one major challenge ahead. The good news first. We held 5 meeting where we had talks given by Ian Merkel, Dan Kile, Mandi Hutchinson, Dennis Beals and Dan Wray. Ian Merkel spoke on his recent collecting experiences in the amethyst region of Ontario, above Lake Superior. Dan Kile the following month talked about the historic, 1980s experiences of amethyst collecting in the same area as well as some information on amethyst crystallography and coloration patterns. Mandi Hutchinson spoke on carbonatites and why they are interesting. Dennis Beals spoke on the raspberry grossular from northern Mexico with pictures of the locality and his experiences of mining there. Our last speaker of the year, Dan Wray, entertained us with 3D pictures of calcite and aragonite from inside Colorado and adjacent caves. We continue to try to provide mineralogical talks that have not been already heard in the Denver area by speakers who may not be as well known as speakers. Next year we will also hear about a new museum that opened in Farmington, New Mexico.

Our Chapter website continues to be kept up-to-date on our monthly activities with historic newsletters being added as possible. We already have online the first newsletters from 1978 to 1982.

We also held our successful May silent auction which was a financial success, thanks to donations from many dealers and the soliciting efforts of Larry Havens and Bill Hutchinson. FMCC has also agreed to support with people and financially the planning and execution of the Second Eugene Foord pegmatite symposium in July 2016. This two day presentation symposium with two days of up to 14 accompanying field trips we hope will allow participants to visit pegmatites that have not been seen in decades.

Executing this symposium will be a challenge and the outcome is not certain. Manpower is our major shortage. The major task for the field trips will be finding field trip leaders and trip planners. Each field trip will have no more than 20 people, with non-Colorado attendees having priority. The Friends of the CSM Geology Museum and the Denver Region Exploration Geologists are co-conveners for this event to be held in Golden, Colorado on the campus of the Colorado School of Mines. Housing will be available both in adjacent, walk-able hotels and in College single-room dormitories. Food will be available either in the College Student union building or in adjacent central Golden, which is directly adjacent to the school.

Our newsletter editor, Pete Modreski has continued issuing an excellent newsletter with local news stories, keeping everyone informed of all geological, paleontological and mineralogical meetings and events in the Four Corners region.

Our challenges are that although we are financially stable, are not losing money, and have some cash reserves, as a chapter organization we have lost the ability to stage events ourselves or to find members for officer positions. Some of our current officers and board members have been loyally and proudly serving in these positions for decades. They have more than earned the right for a rest. We must once again replace our treasurer, and we should recycle some of our officer positions (including myself) with new people who will take us in new directions. Without new people, FMCC will have to change directions and plan a different future.

Mark Ivan Jacobson

*A few items of Colorado mineral history...*



Clarence Coil at home with selected self-collected specimens, circa 1977. Photograph from an original print in the Denver Museum of Nature and Science archives, courtesy Samuel Schiller, copyright retained by Clarence Coil estate.

Coil, 1905-1978, was a renowned Colorado field collector, especially noted for his find of a pocket of white-striped (albite overgrowths) amazonite. You can read a bit about Clarence in a blog by Mike Nelson (Colorado Springs Mineralogical Soc.) as well as in the Mineralogical Record Biographical Archive:

<http://csmsgologypost.blogspot.com/2014/03/pikes-peak-amazonite-clarence-coil.html> by Mike Nelson  
<http://www.minrec.org/labels.asp?colid=1299>

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Below is a copy of the certificate documenting the establishment of the Colorado Chapter as one of the official regional chapters of the Friends of Mineralogy, Inc., dated June 12, 1977. We hope to present a few more notes about the history of the chapter, in future newsletters.





**“Happy Birthday to Jim Hurlbut**, who was 95 on December 31, 2015 To commemorate Jim’s more than 70 years of service to the rockhound community, through the Colorado Mineral Society, Littleton Gem and Mineral Society, the Rocky Mountain and American Federation of Mineralogical Societies, many micromounters group, plus the Denver Show Committee and Council, we are running this article from the September 1950 issue of *The Mineralogist*. The young author told of hitchhiking throughout Colorado during the summer of 1949 and meeting Jim and being taken to the top of Mt. Antero to place the plaque designating Mt. Antero as a rockhound park!” We are reprinting this article thanks to its appearing in the December, 2015 newsletter “Tips and Chips” of the Denver Gem and Mineral

Guild, pp. 8-11, edited by Beth Simmons. The photo of Jim Hurlbut is by Marji Payne, 2015, from the above newsletter. Jim was one of the founding members of the Colorado Chapter of Friends of Mineralogy and he has served in several offices for the chapter, including currently as our vice-president.

### **Mineral Collecting in Colorado**

By Paul Humphreys, 1727 Cleveland Avenue, Whiting, Indiana from *The Mineralogist*, September 1950, p. 399-403

The summer of 1949 found me with time on my hands and a great desire to be out collecting minerals. Early in the spring I had written to a number of western states for information on collecting localities, and out of the wealth of material I received in answer one article in particular impressed me. That was a four-page report entitled Colorado Mineral Localities written by Richard M. Pearl, Assistant Professor of Geology at Colorado College in Colorado Springs. The report vividly described aquamarine, bertrandite, phenacite, purple fluorite, and brilliant quartz to be found on Mt. Antero, a deposit of huge garnets near Salida, turquoise at Manassa, amethyst at Creede, and a great many other things.

Furthermore, a visit to the John Crerar Library in Chicago unearthed *Bulletin 624* of the United State Geological Survey, vintage 1917, which list for Colorado every mineral from acanthite to zircon. Before I was half way through it, I was convinced that Colorado was the place for me to do my summer collecting.

Checking over available resources, I found that there was just enough for necessary transportation which would leave me nothing with which to purchase specimens, or food, once I got there. Obviously this would not do, as it was necessary to become a ways and means committee of one to consider alternative plans. What I finally decided was this. I would take a bus only as far as Colorado Springs and from there hitchhike where I wanted to go. I would carry a sleeping bag in order to camp out, and my luggage would be limited to what I could pack on my back. The minerals could be sent home via express when they accumulated to sufficient quantities.

At the time I did not know that there were laws about such things as hitchhiking in Colorado. Or did I know that Mr. Pearl’s report was, in some respects, rather misleading while *Bulletin 624* was completely useless. Perhaps it is just as well, for if I had known all this I might not have gone and so missed many fine minerals. At any rate, the morning of July 25 found me wandering the streets of Colorado Springs trying to locate the chamber of commerce and so begin collecting in earnest.

At first blush it may be difficult to tie up a chamber of commerce with collecting, but those sages usually know more about a region than anyone else, and at that time I sadly needed someone to direct me. The places I wanted to get to were Crystal Peak, Cheyenne Mountain, St. Peter’s Dome, Devil’s Head, and Crystal Park. All of these spots I had read of in connection with some mineral, usually smoky quartz and microcline, and I had some vague notion that collecting there would be something like in the limestone quarries of Indiana. You simply walked up to one, got out your hammer, and went over every square inch until the desirable minerals had all been removed. At the most the whole procedure took no longer than a day, usually less.

At the chamber of commerce I soon learned differently. Here a charming young lady pointed out Crystal Peak on a map of the area, and to my great surprise it took up almost as much room as Colorado Springs. When I told her that I wanted to collect minerals there, she produced a pamphlet from under her desk and recited from it a number of facts about the

mountain. Most of these I have forgotten, but the impression I received was that, using the same techniques it would take me roughly the rest of my life to go over Crystal Peak looking for specimens. By this time I began to get the idea, and a request for dealers in the vicinity brought forth the name of E. M. McComb whom I then made haste to see.

McComb has a fine rock shop, and from him I was able to purchase a number of beautiful specimens. He, too, had a good deal to say about the foolishness of climbing any mountains single handed.

Colorado Springs is the home of Colorado College, and I next directed my steps there to see Mr. Pearl. I was able to catch him before a class, and he was kind enough to diagram several spots in and about Colorado Springs that one could reach without climbing any mountains. I decided, however, to spend the night in Manitou Springs, and so was unable to visit these.

The morning of July 26 was spent in hiking about the Garden of the Gods, and from there I set out to Cripple Creek and Florissant, stopping en route at the Hobby Shop in Woodland Park where I was able to add to my growing collection. Cripple Creek, to a collector, looks as fabulous today as it must at one time have looked to a miner. The entire area is covered with shafts and pits, and six mines are still in operation for the golden metal. Just what might be found here I do not know, for without a car most of these spots are hard to reach, and I contented myself with buying some cubed pyrite and a piece of calaverite, Cripple Creek's famous gold ore, at the City Curio Shop in town.

In Miocene times a fresh-water lake covered much of the Florissant area, and into this lake rained volcanic ash burying many insects and other organisms. Today this locality is world famous for the wealth of fossil material found there. The Colorado Petrified Forest has uncovered a number of trees which they maintain as a commercial display complete with guides and a small museum. The admission is reasonable, and a trip through this forest is a fascinating experience. At one place the management has thoughtfully dug into the beds of tuff, and those interested can crack fossils and fingers here to their hearts content. Needless to say, I did a little of both.

One could camp and collect in the Colorado Springs area for years without exhausting one part of its possibilities. Each of the great peaks nearby has its own peculiar minerals, yielding only to the most experienced and persevering of collectors. The magnificent microcline and smoky quartz crystals which are always associated with the region can still be found, but it takes equipment and guided collecting to remove them, neither of which I had. So early the next morning I started north in search of more accessible localities.

Arriving in Denver late in the afternoon, I checked my pack in a nearby bus station and started immediately for the Bureau of Mines, located in the Museum Building across from the state capitol. I wanted to see Fred Jones, Commissioner of Mines and have him verify my list of collecting localities before I went any farther.

Mr. Jones, I believe, was somewhat shocked; first at my mode of travel and second at most of the places I planned to visit. Mt. Antero, it now turned out, was a 14,245 foot peak covering innumerable acres of ground and quite impossible to climb alone.

Creede was a million miles from nowhere and the garnets near Salida could only be reached by jeep. Furthermore, most of the localities listed in Bulletin 624 were now extinct, and it would be best to strike them all off the list. Finally after almost everything had been disposed of in this fashion, Mr. Jones saw something that pleased him. It was the Golden zeolite area, west of Denver in Douglas County [Ed. Note—remember this fellow knew LITTLE about Colorado!]. That, he informed me, could be reached by interurban, and with only a little effort on my part a number of good specimens could be collected.

“As for Mt Antero,” he went on, “perhaps something can be done about that, too.”

He then consulted his memo pad and I heard for the first time of the Colorado Mineral Society. That splendid group centers in Denver, and the president, to my surprise, was none other than Richard M. Pearl. They were planning a field trip to Mt. Antero, Chaffee County, in a day or so, and if I were lucky I might be taken along. I thanked Mr. Jones for his help and took my leave.

The second floor of the Museum Building houses a beautiful mineral exhibit, primarily of Colorado material. It totals over 11,000 specimens and presents a dazzling spectacle that should be visited by everyone interested in Colorado mineralogy.

An outstanding feature of the collection are the county cases in which representative ores are displayed from various counties in Colorado.

My first move, on emergence from the Museum Building, was to call James Hurlbut of Denver who was in charge of the Mt. Antero trip. He told me I would be welcome to go along and even invited me to spend the following night at his home to assure an early start. This invitation was readily accepted, for the great city of Denver does not offer accommodations for camping out.

The evening of July 27, I spent, with their kind permission, camping in the front yard of Mr. and Mrs. Patty of Golden so as to be at the zeolites as soon as possible in the morning.

Just outside Golden are two basalt mesas known as North and South Table Mountains, and of these two the former is said to be the best collecting. I was directed to a quarry in the southern end of North Table Mountain by a student at the Colorado School of Mines, also at Golden. This quarry, now abandoned, proved to be a good collecting ground and during the course of a day spent there it yielded many nice specimens, crystallized in cavities in the dark basalt. Late in the afternoon when I was ready to leave, I ran across a large cavity near the floor of the quarry which was filled with beautiful matted needles of natrolite. It was difficult to remove this mineral as it is extremely fragile, but I was able to collect several pieces of it which made the time spent on North Table Mountain seem rewarding indeed.

Before leaving Golden I visited the mineral collection at the Colorado School of Mines. This is a splendid exhibit containing, among other things, many beautiful specimens of local zeolites.

Early the next morning, as scheduled, we set out for Antero, taking 285 from Denver through the spectacular Front Range and South Park to Nathrop where we met the rest of the party.



*Jim Hurlbut driving the last spike in the Mt. Antero plaque, Colorado Day, August 1, 1949. Photo by Donald Brown, The Mineralogist, December 1949, p. 570*

An account of this trip appeared in the December, 1949 issue of *The Mineralogist* but let me mention a few of the participants that I met personally. There was Mrs. Lewis Newell and Muriel Colburn, who proved themselves as good at

climbing as they are at collecting. Fred Lidinsky, the Browns, Mary E. Burwell, Leroy Brown, and Bill Hayward; all of Denver and prominent collectors. The purpose of the expedition, in addition to the minerals that might be picked up along the way, was to carry a bronze plaque weighing many pounds all 14,245 feet to the top of the mountain, there to nail it into a boulder for all to see and enjoy. The words inscribed on the plaque read as follows: "World famous locality for superb crystals of aquamarine, phenacite, bertrandite. Colorado Mineral Society, 1949."

By fording a drainage ditch the party was able to drive to the very foot of the mountain. There lunch was eaten, and those of us who were to do the climbing packed the things we needed and set off.

We camped the first night at timber line and started up to the peak and the aquamarine locality early the next day. For me this climb was a wonderful experience in its own right, but I shall not dwell on it here for the truth of the matter is that aside from the installation of the plaque very little was accomplished by making it. Fred, Leroy, and I found some blue stained granite with just a trace of aquamarine here and there, but I think that was as close as any of use came to the real thing. Several of the group collected some nice quartz crystals, though, and when the Colorado Mineral Society takes a trip together everyone has a glorious time regardless of the number of specimens collected.

But more can be said about collecting on Antero. Where were all the superb crystals of aquamarine, phenacite, and bertrandite? The fact remains that, at various times in the past, thousands of dollars worth of gems have been taken from its barren slopes. And Mr. Pearl was not wrong in his glowing account of the minerals to be found there. It is simply that he and a number of others established a camp near the peak complete with dynamite and mining equipment and so did their collecting thoroughly. Furthermore, there are certain individuals near Antero that can climb the mountain empty handed and return with two or three nice crystals of aquamarine. Perhaps they know where the gems are to be found, but they aren't telling.

Back down from the mountain experiences were hastily related, and Mr. Hurlbut and I along with some others set out for the Ruby Mountain locality nearby.

At Nathrop looking east, the first thing that catches the eye is a flat-topped hill of grey rhyolite. This is Ruby Mountain, Chaffee County, on whose western slope tiny, sparkling crystals of red spessartite garnet are found. From the road one can see a white streak in the upper left section of the hill, and in this freshly blasted rock we did our collecting.

Let me say now that the Arkansas River runs between 285 and Ruby Mountain, and in order to cross it, it is necessary to back track some distance to a bridge. More specific directions on the route can be secured in the Nathrop store; a store that is not only the center, but the only visible evidence of a town at all.

After Mt. Antero this climb hardly registered with us, but the specimens we secured certainly did. Here there is plenty of material for all, and we made the best of our opportunity to collect it. The crystals are for the most part quite small, but a number of them on a piece of rhyolite makes an attractive addition to any collection. The one exception in size is a single crystal I found on the way down which measures  $\frac{5}{8}$  of an inch across.

Back on 285 again the Colorado Mineral Society and I parted ways. Jim Hurlbut and the others had to return to Denver, while I was going on to Salida, Chaffee County, for more garnet. Once more I thanked them for all they had done for me, and soon was on my way to the Sedalia Copper Mine and some of the giant garnet crystals I had read so much about.

In Salida, however, no one had heard of the locality so I was again indebted to my friends in Denver for a reference to Mr. Lee Head of that town who was able to direct me to the mine. Mr. Head is a dealer who handles some fine Colorado material. I purchased a garnet from him, along with several other items, just in case I didn't find anything.

The Sedalia Copper Mine is about four miles north of Salida on Colorado 291. From this road it can be seen in some hills to the east, rising in three tiered dumps near the third of which the garnets are found. These are beautiful, twelve-sided crystals of almandite, altered on the surface to chlorite. They occur in a chlorite schist but are rather difficult to remove. I was able to collect several good specimens, but all small, and so was thankful for the large one I had bought from Mr. Head.

For an abandoned mine, the Sedalia was doing well. It had somewhat the appearance of State Street during the Christmas rush. At least eight people were digging for garnets with others picking through the dump and newcomers toiling up the

slope to the third level. Considering this it is not hard to realize why the deposit is well picked over and really good material hard to locate.

By now time was running short, so I took a bus from Salida to Alamosa, where I spent the night.

The object of this dip south was primarily to visit the King Mine located west of Manassa, Conejos County, and a leading producer of turquoise. In Manassa, however, I met Mr. King, and he was kind enough to give me several rough and polished pieces of the gem mineral. The mine was not in operation at the time and the road to it is little travelled. In addition the whole place is infested with rattlesnakes, so I did not elect to make the trip but left, with my turquoise for Creede.

Creede, in Mineral County, is in some respects a million miles from nowhere, but it is reached by a well-traveled road so I had no trouble in getting there. And once in Creede nothing could be simpler than to locate a collecting area. There are only two roads connected with the place; one of these you come in on and the other goes to the mines.

This region was once tremendously rich in silver, but at present deposits are reduced to the point that only one or two mines are still in operation. The mineral collector will be chiefly interested in the amethyst found in association with the ores which is abundant on most of the old dumps. The majority of this is massive, but occasionally one runs across some nicely crystallized material.

At the Creede Hotel, a remnant of a more prosperous period, I met Lillian Hargraves, the manager and a collector herself. She told me of the abandoned Humphrey's Mine, the first dump on the left on the road leading north to the mines from town, and it was here that I found most of my amethyst.

Mr. Bidsey, also of Creede, is a miner and dealer in minerals who handles some good local material.

Members of the Colorado Mineral Society had been more than enthusiastic in recommending the Canon City area to me, so I was looking forward to Fremont County and collecting there.

While passing, for the second time, through Salida I visited the Ocean to Ocean Curio Store managed by the Clarks. Mr. Clark is an Antero collector of considerable experience; one of those who not only climbs the mountain but knows where to look once he gets there. I had an interesting talk with him, and before leaving, purchased an aquamarine crystal collected on formidable Antero.

In Canon City it's F. C. Kessler. A student of geology for years, Mr. Kessler is now associated with the Canon City Museum. He knows the local mineral localities, and my own plans for collecting were improved considerably after he had checked over them.

This area is known for its agate, alabaster, travertine, dinosaur bone, and geodes, although the latter are but cavities in the country rock. Most of these I had obtained elsewhere, and as I had only a few days left I did not take time to collect any new specimens. Instead I visited the quarries of the Royal Gorge area where I obtained much good material.

These quarries are operated by the Consolidated Feldspar Corporation near Parkdale. They are in a coarse granite where excellent pieces of muscovite, feldspar, and occasional biotite can be found. I visited two of them during the course of a day, and in addition to these minerals I also collected some rather imperfect garnet and a small amount of black tourmaline embedded in milky quartz.

The most interesting discovery was a huge crystal of beryl in a wall of one of the quarries. Mr. Hurlbut and others had obtained specimens of beryl here, and I was looking for it, but it still surprised me to see this splendid crystal. It was rather high on the wall and could only be reached by standing on a narrow ledge which considerably impaired attempts at removal. I chipped around it for over an hour with my mineral pick and then continued with a sledge borrowed from a quarry worker, but still to no avail. It was like trying to collect the Rock of Gibraltar with a tack hammer, and at the end of two hours of hard labor a compelling thirst forced me to give it up. That beryl crystal may still be there today, but if it is I hope that some well-equipped collector discovers it this summer and removes it once and for all. It would give me great pleasure to see it displayed on someone's shelf complete with a neat label giving name and locality.

Back in Canon City I found a telegram awaiting me at the post office. It was from my family; they were leaving on a vacation on August 8, and if I was running low on money I could come home and travel with them for a while. And this I did, returning by way of Boulder to Cheyenne, Wyoming, where I caught a ride as far as Peoria, Ill.

My last stop in Colorado was a visit to Dr. Nelson Eddy, a collector in Boulder. Dr. Eddy and I had traded on one occasion, and I was anxious to see his collection. It was a magnificent one requiring years to build and containing minerals from world-wide sources. I spent several hours with Dr. Eddy, viewing his specimens and hearing the many interesting stories behind them.

TIPS & CHIPS, DECEMBER 2015, Denver Gem and Mineral Guild

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**Greater Denver Area Gem and Mineral Council  
2015 Approved Grant Requests**

The Greater Denver Area Gem and Mineral Council receives, evaluates and approves grant requests twice each year in March and September. This report is being sent to all eight clubs that are members of the Greater Denver Area Gem and Mineral Council to be published in their newsletter.

Dinosaur Ridge requested and received **\$5,000.00**. \$1,000 was used to defray the cost of Dinosaur Discovery Day and the remaining \$4,000.00 was used to repair and update seven interpretive signs.

The Western Interior Paleontological Society requested and received **\$1,000** to defray costs for volunteers to go to the Eastern Prehistoric Museum and to the Utah Field House of Natural History State Park Museum to assist the curator with a monumental backlog of computer work.

Colorado Mesa University requested and received **\$4,495.00** to purchase a Ward's Classic North American Rock Collection and thin sections with a case. They need the thin section slides for students to use with their 5 new petrographic microscopes.

The Denver Museum of Nature and Science requested and received **\$1,317.00** to purchase archival aluminum trays to house the rest of their micromount mineral collection.

Pueblo Community College Foundation requested and received **\$2,143.00** to help build a time trail on the Fremont Branch Campus. They will also be working on a new stegosaurus.

Front Range Community College requested and received **\$2,000.00** to purchase minerals to fill a case they had built. Their minerals had been stolen.

Each of the eight clubs can receive \$250.00 yearly from the Council to help defray their newsletter expense. Each club must have a representative present at all four Council meetings each year. In 2015 all but one club had a representative at all the meetings. If a club does not have a representative at one of the meetings, the club receives only a partial award. The newsletter grant money paid to the clubs was **\$1,937.50**. This grant money comes from the proceeds of the 2015 Greater Denver area Gem and Mineral Show.

The total grant money awarded during 2015 was \$17,892.50. All money awarded to the above listed organizations was funded by proceeds from the September 2015 Greater Denver Area Gem and Mineral Show put on by the eight clubs.

The grant application and information is available at: [denvermineralshow.com](http://denvermineralshow.com).

Council officers for the 2016 year are:

President – Martin Hannu

Vice President – Joe Payne

Treasurer – Maxine Sheel

Secretary – Sharon Hannu

Respectfully submitted, Sharon Hannu, secretary



**Pegmatite Symposium, July 15-19, 2016:** All are invited to attend the “2<sup>nd</sup> Eugene E. Foord Symposium on Pegmatites, Golden Colorado”, to take place on the CSM campus, July 15-19, 2016, cosponsored by the Friends of the CSM Geology Museum and the Colorado Chapter, Friends of Mineralogy. There will be a welcoming reception, two days (Sat.-Sun., July 16-17) of oral and poster presentations, and two days (Mon.-Tues., July 18-19) of field trips to Colorado pegmatite localities. Look for further information on the Friends of the CSM Museum page,

<https://www.facebook.com/LikeCSMGeoMuseum/> . Pegmatite researchers from around the country are expected to attend, as well as local presenters. At this time we have firm or tentative commitments for attendance and presentations by David London (University of Oklahoma), William “Skip” Simmons (Maine Mineral and Gem Museum—formerly, with the University of New Orleans), and Michael Wise (U.S. National Museum/Smithsonian Institute), among others. If you would like to receive future updates about the symposium or would like to offer to present a paper, please contact Mark Jacobson, markivanjacobson@gmail.com, Pete Modreski, pmodreski@usgs.gov, or refer to the additional information now or soon to be added to the Friends of the Museum facebook page (a website about the symposium is also being prepared). Registration cost for the symposium will be \$100, which will include admission to the two days of lecture presentations, a Friday evening welcoming reception, refreshments at the meeting, program and abstracts with field guides, and field trip attendance (field trip travel will be by car-pooling in personal vehicles). A Saturday evening banquet and box lunches for the field trips will be optional at cost.

Below is a *tentative* list of field trips which may be included in the conference. Though some of these have been confirmed, most are still tentative depending on access permission and enlistment of suitable trip leaders and, once a list is circulated to registrants, on sufficient signup interest among registrants to hold each trip:

- 1) Smoky Hawk claim and other adjacent Crystal Peak areas
- 2) Eight Mile Park area, Fremont County - Mica lode, Meyers, and School Section pegmatites
- 3) Devils Hole area, Fremont County - Devils Hole and Chief Lithia pegmatites
- 4) Clear Creek area pegmatites - Bald Mountain (inspection only), Burroughs, other pegmatites
- 5) Southern Crystal Mountain district - Hyatt and Storm Mountain beryl and phosphate pegmatites
- 6) Northern Crystal Mountain district - Big Boulder, Bull Elk, Sherwood pegmatites
- 7) Extreme northern Crystal Mountain district: Crystal Mountain and Wisdom Ranch pegmatites
- 8) Micanite district, Fremont & Park Counties - Rose Dawn and Climax Mica pegmatites
- 9) Trout Creek Pass district - Clora May, Crystal no. 8 (Luella), and Yard pegmatites
- 10) South Platte district - Little Patsy, Oregon, Big Bertha, and Luster or White Cloud pegmatites
- 11) St. Peters Dome area - Alkali granite pegmatites with cryolite, riebeckite, astrophyllite, zircon
- 12) Platt pegmatite, southeast of Encampment, Wyoming, rich in radioactive minerals
- 13) Quartz Creek district - Brown Derby and Bazooka lithium pegmatites, Gunnison County
- 14) Jamestown, Boulder county pegmatites – may be included in southern Crystal Mt. District field trip # 5

## ***Important notes about FM this month:***

***Annual Dues to Friends of Mineralogy, Colorado Chapter*** are \$13.00; this includes membership in the national organization, Friends of Mineralogy, Inc.. New members are *always* welcome! To join, just mail a check for \$13 to FM-Colorado Chapter, P.O. Box 254, Littleton CO, 80160-0254; please include your name, email address and mailing address (all our newsletters and mailings are normally sent by email, unless the member is unable to receive them that way). Or, pay at our meeting when you attend. Right **NOW** is the best time to pay your dues for 2015! P.S., to expedite your check reaching our treasurer, Gloria Staebler, please mail your check, rather than to the present official Chapter P.O. Box (Littleton CO), directly to Gloria at: Friends of Mineralogy, Colorado Chapter, c/o Gloria Staebler, PO Box 234, Arvada, CO 80001.

***See our Colorado Chapter website:*** <http://friendsofmineralogycolorado.org/>

***All members should have received the January National Newsletter from FM, Inc.,*** with full info about FM events in Tucson and much more. It was sent by email on Jan. 7; if you did not receive it, please contact iva@lithographie.org.

### ***Dates for upcoming FM Colorado Chapter activities:***

Meetings are normally held at 7:30 p.m. on the 2<sup>nd</sup> Thursday of alternate (odd-numbered) months, at the VIP Room in the Denver Museum of Nature and Science. The dates are sometimes shifted in September and November so as not to conflict with the Denver Gem & Mineral Show and the New Mexico Mineral Symposium. Visitors are *always* welcome at our meetings! Our planned 2016 meeting dates are:

Meeting dates for 2016:

**Jan. 14, FM meeting**, program, Jeff Self & Donna Ware, “The Sherman Dugan Geology Museum”.

**Feb. 9, Annual Meeting, FM, Inc.**, Tucson, AZ, Hotel Tucson City Center, 4:00 p.m., in the restaurant.

**Feb. 13, FM Annual Symposium**, Tucson Convention Center, Crystal Ballroom, 10:00 a.m. – 2:30 p.m.

**Mar. 10, FM meeting**; speaker, Markus Raschke, CU, “Thalénite”

**May 12, FM meeting**

**May 14, FM Silent Auction, at Clement Community Center, Lakewood** ***Please plan to come!***

**July 15-19, 2<sup>nd</sup> Eugene E. Foord Pegmatite Symposium, Golden, CO**

**Sept. 8, FM meeting** (*this date may be subject to change*)

**Nov. 3, FM meeting** (*this date may be subject to change*)

\* \* \* \* \*

**FMCC 2016 Officers:** President, Mark Jacobson, markivanjacobson@gmail.com , 1-337-255-0627

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Secretary, Alan Keimig, alan.keimig@gmail.com, 303-755-9604

Directors: Bill Chirside (2015-16), billdozer@mho.com , 303-989-8748

Don Bray (2016-17), don-bray@copper.net , 303-681-3646

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Chairpersons: Newsletter, Pete Modreski, pmodreski@aol.com, 303-202-4766

Preservation, Jeff Self and Donna Ware, selfawareminerals@gmail.com

Liaison for DMNS, Alan Keimig

Liaison for RMFMS, Jim Hurlbut

Representative to Denver Council, Dave Bunk; alternate, Mark Jacobson

Membership/Hospitality - ? (open!)

***Calendar of coming events:***

**Mon., Jan. 11,** 7:00 p.m. (social hour 6:00-7:00), Denver Region Exploration Geologists monthly meeting, “Comparison of structure-tectonic controls for bulk tonnage copper & gold mineralization between SW U.S. and Peru: an exploration model, by William A. Rehrig, Geological Consultant. Colorado School of Mines, Berthoud Hall, Room 241. All are welcome. See <http://www.dregs.org/abstracts.html> for an abstract of the talk.

**Mon., Jan. 11,** 7:00 p.m., at the monthly meeting of the Canon City Geology Club, Carly Thorson will present “**Indian Springs Ranch Fossil Beds**” providing photos and specimens illustrating how ancient creatures left their tracks in the mud over 400 million years ago at this famous fossil site near Canon City. First United Methodist Church Fellowship Hall on the northwest corner of 9th St and Main, Cañon City. 6PM Business Meeting, 7PM Presentation. All are welcome. For more information, go to [canoncitygeologyclub.com](http://canoncitygeologyclub.com).

**Tues., Jan. 12,** 6:30-8:30 p.m. “**The World’s Greatest Geological Wonders**” course of 36 videos will resume (through March 1) at Mount Vernon Country Club, Aspen Room, in a 2-hour session.

Lecture 19 Antarctica – A World of Ice

Lecture 20 Columbia Glacier – Unusual Glacier Cycles

Lecture 21 Fiordland National Park Majestic Fjords

The price for adults is \$5 each session, to go towards the Club’s audio/visual setup charge, but children are free.” For more information please contact Jim Keller, [kellerjb10@aol.com](mailto:kellerjb10@aol.com).

**Thurs., Jan. 14,** 3:00 p.m., First Earth Sciences Colloquium of the year at the Denver Museum of Nature & Science, “**Sex in the Fossil Record**” by Walter Joyce, University of Fribourg. In the VIP room; all are welcome, museum admission is not required.

**Thurs., Jan. 14,** 7:30 p.m., bimonthly meeting of **Friends of Mineralogy, Colorado Chapter**, at the Denver Museum of Nature and Science, VIP Room. Jeff Self and Donna Ware will give a presentation about the new Sherman Dugan Museum of Geology at the San Juan College School of Energy, Farmington, New Mexico. Jeff and Donna helped design the mineral exhibits at this new museum. All are welcome to come to the meeting.

**Fri., Jan. 15,** 7:30 p.m., “**Mining History of the Leadville District, Colorado**” by Ed Raines, at the monthly meeting of the Littleton Gem and Mineral Club, at Columbine Hills Church, 9700 Old Coal Mine Ave. Littleton, CO 80123. All are welcome.

**Sun., Jan. 17,** at the monthly meeting of the **Florissant Scientific Society (FSS), Glaciation: Basic Science and Stunning Scenery**, by Bob Knapp. At: University of Colorado, Colorado Springs (UCCS) campus, Osborne Center, room B215. Lunch, 12:00-1:00 (BYO); Presentation, 1:00-2:30. For more info or detailed directions contact Beth Simmons, [cloverknoll@comcast.net](mailto:cloverknoll@comcast.net), or Bob Knapp, 719-260-7178, [rknapp@uccs.edu](mailto:rknapp@uccs.edu). All are welcome, no charge.

**Tues., Jan. 19,** 7:00-8:30 p.m., Steps in Stone Lecture Series at the CU Museum, Boulder: **The Cretaceous West: Dinosaur Distribution and Movement on the Lost Landmass of Laramidia**, by Dr. Joseph Sertich, Curator of Vertebrate Paleontology at the Denver Museum of Nature & Science. In the Paleontology Hall at the CU Museum of Natural History, Henderson Building, 15<sup>th</sup> & Broadway, CU campus, Boulder. All are welcome, no charge; see <http://cumuseum.colorado.edu/events/64825> for more info.

**Thurs., Jan. 21,** 7:00 p.m., **Colorado Scientific Society** bimonthly meeting, “**A New Look at Colorado Stratigraphy**”, by Bob Reynolds and James Hagadorn, DMNS. No charge, all are welcome; Shepherd of the Hills Presbyterian Church, 11500 W. 20<sup>th</sup> Ave., Lakewood CO.

**Sat., Jan. 23,** 10:00 a.m. – 4:00 p.m., **Family Day - Tromping Through Time with Dinosaurs, Ice Age Mammals, and More**, at the CU Museum, Boulder; “Help us say goodbye to our Steps in Stone: Walking Through Time exhibition.” For kids & family, free admission; see <http://cumuseum.colorado.edu/events/64823>.

**Wed., Jan. 27**, 4:00 p.m., CU Geological Sciences Seminar, Boulder, "**Volcanism and Bonanza Gold of the Miocene Yellowstone Hotspot**", by Bill Hames, Auburn Univ. Benson Earth Sciences Building Auditorium (room 180). All welcome; "refreshments are served at 3:30 on the 3rd floor"

**Thurs., Feb. 4. 7**, 7:00 p.m., monthly "First Thursday" lecture sponsored by the **Friends of the Colorado School of Mines Geology Museum**. Topic and speaker(s) are still TBA, but the program *may* be about the Gold King mine wastewater spill. In Berthoud Hall, Room 240 on the CSM campus; free admission is free and all are welcome. Socializing at 6:00 p.m., program at 7:00. Check <https://www.facebook.com/LikeCSMGeoMuseum/> for updated info.

**Jan. 30 – Feb. 13**, **Arizona Mineral and Fossil Show** at the Hotel Tucson City Center, Tucson AZ. And of course, numerous other "satellite" mineral shows all around the city, during and before these dates.

**Tues., Feb. 9**, 4:00 p.m., **Friends of Mineralogy, Inc., Annual Meeting and Social Hour**, in the restaurant of the Tucson City Center Hotel, Tucson, AZ. (with thanks to Marty Zinn for making this meeting location available—with refreshments!)

**Feb. 11-14**, **Tucson Gem and Mineral Show**, the "main" Tucson Show in the Tucson Convention Center, sponsored by the Tucson Gem and Mineral Society. The show theme is "Shades of Blue – Minerals of the World"; one may expect a few copper minerals to be included in this.

**Sat., Feb. 13**, 10:00 a.m. – 2:30 p.m., **Friends of Mineralogy Annual Symposium**, Tucson Convention Center, Crystal Ballroom, on the Tucson Show theme, "Shades of Blue".

**Feb. 26-28**, **Denver Gem and Mineral Guild, Gem, Mineral, and Jewelry Show**, at the Jefferson County Fairgrounds, Exhibit Building. No admission charge.

**Thurs., Mar. 10**, 7:30 p.m., Friends of Mineralogy, Colorado Chapter, bimonthly meeting. Markus Raschke, CU, "Thalénite: from redefinition to new discoveries of a rare-earth element silicate mineral from Colorado".

**Apr. 1-3**, **Fort Collins Rockhounds Gem and Mineral Show**, at the McKee 4-H Building, Larimer County Fairgrounds, I-25 exit 259.

**April 7-11**, **California pegmatites field trip**, sponsored by the Friends of the Colorado School of Mines Geology Museum. This trip will include attendance at the annual one-day Sinkankas Gemstone Symposium sponsored by GIA; a guided tour of the Los Angeles County Natural History Museum; a tour of the GIA (Gemological Institute of America) headquarters in Carlsbad, CA; and underground visits to two or three gem pegmatite mines in San Diego County. For more information, see the Friends page at <https://www.facebook.com/LikeCSMGeoMuseum/>. You must be a Friends of the CSM Museum member to take part in the trip, but, anyone may join! There is no fee for the trip, other than your own payment of costs for the symposium registration, museum entry, and your own airfare, lodging, and meals.

**April 15-17**, **Rocky Mountain Gem and Mineral Show**, to be held at The Westin Westminster, 10600 Westminster Blvd, Westminster, CO 80020. See <http://www.rockygems.com/april-mineral-show.html> for more info. This new show is being sponsored by the Rocky Mountain Gem and Mineral Co-op, c/o Sandra Gonzales, <http://www.rockygems.com/> Note, the Colorado Mineral and Fossil Spring Show, which would normally be held toward the end of April, will *not* take place this year.

**Thurs., May 12**, 7:30 p.m., Friends of Mineralogy, Colorado Chapter, bimonthly meeting. Topic TBA.

**Sat., May 14, Friends of Mineralogy, Colorado Chapter, Silent Auction.** Clements Community Center, 1580 Yarrow St., Lakewood CO, 12:00-3:00 (setup begins at 11 a.m.)

**July 15-19, the “2<sup>nd</sup> Eugene E. Foord Symposium on Pegmatites, Golden Colorado”** will take place on the CSM campus. There will be a welcoming reception, two days of oral and poster presentations, and two days of field trips to Colorado pegmatite localities. For further information see the Friends of the Colorado School of Mines Geology Museum page, <https://www.facebook.com/LikeCSMGeoMuseum/> . Pegmatite researchers from around the country are expected to attend, as well as local presenters. All are invited to attend.

***Special exhibits in 2016:***

A new **"Critical Materials" Exhibit** in The Colorado School of Mines Geology Museum is now open. The exhibit highlights critical materials and rare-earth elements - including the minerals the elements can be derived from - essential to the development of advanced technology and energy. The exhibit is a joint project of the Critical Materials Institute at the School of Mines and the Colorado School of Mines Geology Museum. Mandi Hutchinson, graduate student at CSM, played a major role in planning and design of the exhibit. The exhibit focuses on the elements Li, Y, Te, Nd, Eu, Tb, Dy, their minerals, and their uses in technology. You'll find the exhibit downstairs in the museum, near the Gift Shop.

**Steps in Stone: Walking Through Time**, at the University of Colorado Museum of Natural History, CU campus, Boulder, was open throughout 2015 and closes this month; Sun., Jan. 24 (10 a.m. – 4 p.m.) will be the last day to see this exhibit. The CU Museum, always free admission, is open 9-5 weekdays, 9-4 Saturdays, 10-4 Sunday; see <http://cumuseum.colorado.edu/>. In February, this exhibit of fossil trackways will be moving to the CU-South Denver Campus Museum\*.

\*The CU South Denver Campus Museum, Liniger Building, is now part of The Wildlife Experience, at 10035 S. Peoria St., Parker, CO. [*This all was new news to me—ed.*] “The Wildlife Experience—now part of CU South Denver—is an art and natural history museum that is home to an impressive wildlife art collection and interactive, educational displays including Globeology, Science on a Sphere and special exhibits.” Open 9:30 a.m. – 5:00 p.m. daily; there is an admission charge. See <http://southdenver.cu.edu/visit-the-museum/visitor-info/> .

**Unearthed: Ancient Life in the Boulder Valley**, at the at the University of Colorado Museum of Natural History (Henderson Building; in the Anthropology Hall), CU campus, Boulder, “This new exhibit features a collection of 80+ stone tools known as The Mahaffy Cache that was found in a Boulder backyard in 2007. The artifacts were studied by CU Boulder Professor of Archaeology Doug Bamforth, Ph.D. He dates the tools to 13,000 years ago at the end of the last ice age. The discovery of stone tools from the late Pleistocene within the city limits of Boulder is a rare event in archaeology. This is the first time the tools will be on display for the public. The exhibit includes interactive elements and video, as well as replicas of the tools that visitors can pick up and hold.” Open daily, no admission charge.

***For more lecture series during the year see:***

CU Geological Science Colloquium (Wednesdays, 4 p.m.) see <http://www.colorado.edu/geolsci/colloquium.htm>  
CSU Dept. of Geoscience Seminars (Fridays, 4 p.m.), see <http://warnercnr.colostate.edu/geo-news-and-events/department-seminars>

Van Tuyl Lecture Series, Colorado School of Mines, (Tuesdays, 4 p.m.): [http://inside.mines.edu/GE\\_Lecture-Series](http://inside.mines.edu/GE_Lecture-Series)

Denver Mining Club (Mondays, noon), see <http://www.denverminingclub.org/>

Denver Region Exploration Geologists Society (DREGS; 1<sup>st</sup> Monday, 7 p.m.), <http://www.dregs.org/index.html>

Rocky Mountain Map Society (RMMS; Denver Public Library, Gates Room, 3<sup>rd</sup> Tuesday, 5:30 p.m.), <http://rmmaps.org/>

Western Interior Paleontology Society (WIPS; Denver Museum of Nature & Science, 1<sup>st</sup> Monday, 7 p.m.), <http://westernpaleo.org/> .