



# Flatirons Facets

Flatirons Mineral Club of Boulder County, Colorado  
Volume 60, Number 2  
March-April, 2017

**The Flatirons Mineral Club** is a non-profit Organization which is dedicated to developing and maintaining interests in Earth science and associated hobbies. The purpose of this Club includes, but is not limited to, studying geology and Earth science, teaching others about our hobby, including young people, collecting gem, mineral and fossil specimens and learning lapidary skills.

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



## Field Trip Season Is Here!

### Learn about This Summer's Trips at the May Meeting

The May club meeting is always an exciting one! During this meeting the summer field trip schedule is unveiled and members get to sign up for the trips of their choosing. Flatirons Mineral Club schedules field trips on almost every weekend of the summer. We have a dedicated group of trip leaders who have great ideas for our adventures. Most of the trips are on Saturdays and some are weekend trips that include camping or staying in a motel. The trips are usually family friendly. Make sure to attend the **May 11** meeting and bring your calendar so that you can claim your spots on our upcoming field trips.

We will be meeting back at Frasier Meadows for our May and June meetings. Club meetings are on the second Thursday of each month at Frasier Meadows, 350 Ponca Place, Boulder, CO 80303, starting at 7:00 pm. As you enter Frasier Meadows, just ask the receptionist for directions to our meeting room.

## Boulder Creek Festival

The club will have a booth at the Boulder Creek Festival kids' area, **Saturday through Monday, May 27-29**. We have rock games and information about our club, as well as free polished rocks for everyone! Please sign up to spend an hour or two helping us supervise the games and give out rocks. It is great fun to educate the public about rocks, minerals, and fossils, and to let them know about our club. For more info, contact Anita at [anitacolin@hotmail.com](mailto:anitacolin@hotmail.com)

Gerry Naugle running the mineral identification game at last year's Boulder Creek Festival



## President's Message



Happy Spring FMCers!

The big club news for FMC is that we are in the process of updating our website. The revamped site will go on-line in May. One part of it will become very important because it's related to the sign-up process for field trips.

On Thursday, May 11, during our annual field trip meeting (see page 1), you will be able to sign up for field trips like we've been doing it for years – on paper. And then on the next morning, Friday, May 12, you will only be able to sign up for the trips at our website. So, if you must miss the meeting, you will be able to sign up for trips easily the next day and during the rest of the summer.

There will be a Members Only button on the Home page to enter an area of the website that is for members who are up-to-date with their dues. Those folks will be able to download the current and archived field trip guides. Eventually members will be able to upload photos and renew their memberships, but we'll be making those changes in increments – first the on-line sign-ups!

Hopefully, the new field trip sign-up process will go smoothly and please be patient, if not. Anita Colin will still be available to help with sign-ups but will only via email.

Don't forget that our June meeting will be a celebration of our 60<sup>th</sup> anniversary of our club. Join us! See you soon! Gabi

### Club Meeting Location

We will be meeting back at Frasier Meadows for our May and June meetings.

**Directions to Frasier Meadows:** Exit Foothills Parkway at Baseline and go west. Turn left (south) onto Mohawk Drive and then turn left onto Pawnee Drive, traveling to the east of Burke Park. Take Ponca Place to your left and the Frasier Meadows parking lot will be on the left. When you enter the building, tell the receptionist that you are here for a Flatirons Mineral Club meeting and ask for directions to the elevator to get to the North Community Room for most of the meetings during the rest of the year.

**For a Google map of the location, see:**

<https://www.google.com/maps/place/350+Ponca+Pl,+Boulder,+CO+80303/@39.9932747,-105.2356879,15.75z/data=!4m2!3m1!1s0x876bed9bb0459cf3:0x9bfaa244c5efe9e9>.

### Mineral Identification Class

Save the Date! Ed Raines will teach his 10-week mineralogy course to members only starting on Monday, September 11. More class information and sign-up information in the next newsletter.

## 60th Anniversary Celebration

2017 marks the 60th year of the Flatirons Mineral Club. Our June meeting will be a celebration of our club's history. Dennis Gertenbach will have stories and photos from our club's past, with some of the highlights of the Flatirons Mineral Club.



Long time club members, Craig Hazelton, Dennis Gertenbach, Ray Horton, Carl Bird, and Gerry Naugle at Paul Ralston's Celebration of Life service

## Silent Auction

April's Silent Auction was great fun, with lots of great specimens, books, and supplies to bid on. And, the auction was a great success, with the club clearing \$510.60 - a new record. Many thanks to all of the member volunteers who helped at the auction, and a special thank you to Eileen Fitzgerald for coordinating the sellers' numbers.



Bidding on items at this year's Silent Auction



## North Table Mountain Field Trip

Traditionally, our club kicks off the field trip season with a trip to North Table Mountain outside of Golden to collect zeolite minerals. This year's trip was on April 15, and the weather could not be beat. Twenty eight participants went on the trip, including three members from the Rocky Mountain Micromount Association. Participants were not disappointed, and everyone found analcime, thompsonite, and chabazite specimens, the most common zeolite minerals found at the site. Fifteen zeolite minerals have been reported from the site, and several participants found samples of cowlesite and levyne.

The zeolite minerals, along with calcite, fluorapophyllite, and other minerals fill the gas cavities in the 63 million year old lava flows that cap North Table Mountain. Crystals of black augite are found in the hardened lava. The South Quarry originally provided stone blocks for the trolley lines in Denver. It has been abandoned for many years, but now provides mineral collectors access to world-class zeolite specimens. The quarry is on Jefferson County Open Space, and the county allows mineral collecting at the site.

Here are pictures of the field trip.



Julia with one of the specimens she found



Club members collecting zeolites on North Table Mountain



Julia's specimen showing a cavity lined with thompsonite and analcime crystals



One of several levyne specimens found on the trip

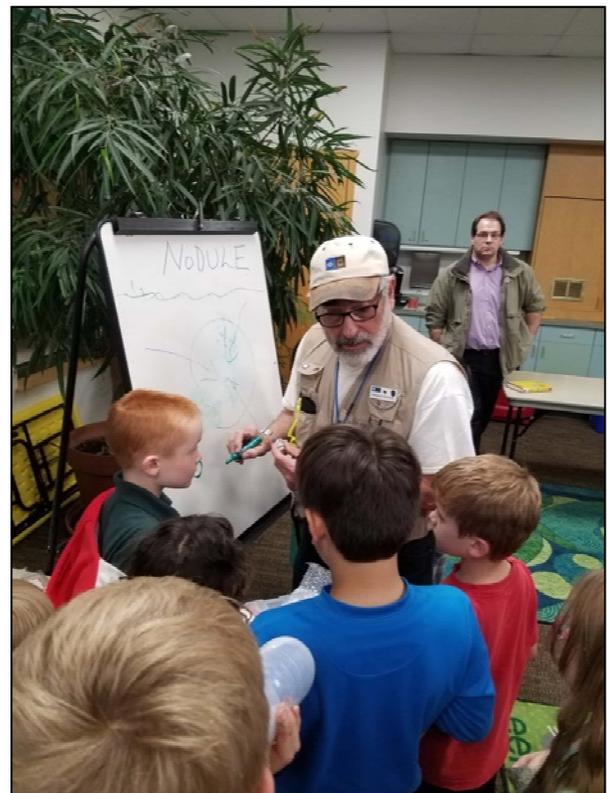
## Jr. Geologists

The Jr. Geologists have had two fun meetings the past few months.

March was the Geode Quiz Show. Howard Gordon joined the group to lead the show, where we will learn all about geodes, including the three different types of geodes and how they are made. (For those who do not know the three types of geodes, they are sedimentary, amygdaloidal, and sperulitic.) Geodes can be lined with large beautiful crystals or layers of different minerals. By



making careful observations of geodes, the kids could tell what kind of geodes they were and how they were formed. We want to thank Howard for joining our meeting and teaching us about geodes.



Howard Gordon teaching the kids about how geodes were formed

Looking at the characteristics of geodes to learn more about them



In April, we started a two month program learning about Earth in Space. We are learning about the geology of planets, moons, meteorites, and other bodies in space, as we work on the Earth in Space badge. In April, we examined meteorites and tektites and learned about craters and how they are formed. At our May 17 meeting, we will search for micrometeorites and will do several crater experiments.



Karen Simmons teaching the kids about craters on earth and other bodies in our solar system



Nico Caballero explains what happens when meteorites enter earth's atmosphere

This winter, the Jr. Geologists have been polishing rocks in a rock tumbler. Each month, they did one step of the process, using coarse, medium, and fine silicon carbide grit, then finishing the process with aluminum oxide polish. In April the rocks were finished. Each Jr. Geologists took home several polished rocks for their collections.

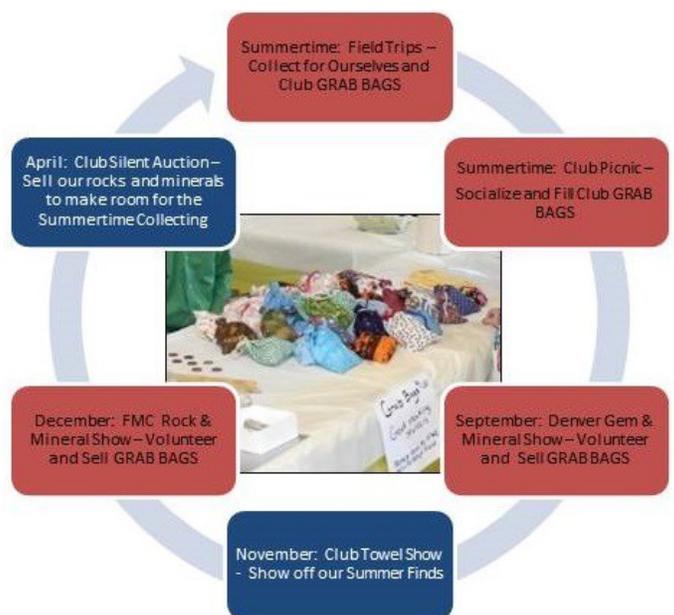
The Jr. Geologists program is open to all Flatirons Mineral Club families. Each month we learn about different aspects of geology, minerals, and fossils, plus earn badges for different earth science activities. For information about the Jr. Geologists program, please contact Dennis Gertenbach at [gertenbach@comcast.net](mailto:gertenbach@comcast.net) or 303-709-8218.

## What are Grab Bags?

Maybe you have noticed that we have a yearly cycle of events in the Flatirons Mineral Club that relates to our collecting of rocks and minerals. The added feature for the clubs in the Denver area is collecting rock and mineral specimens for grab bags.

Take a look at this illustration to the right. Four out of 6 of our major events involve grab bags. So, what are they?!!

**Grab bags are rock and mineral specimen-filled bags that we sell at our rock shows with proceeds going to scholarship funds. We make the bags and we put cleaned and labeled specimens in them.**





Gabi Accatino and Anita Colin with grab bags from last year's picnic

But we can't do this without your help!

**When you go out there this summer on your field trips, please, bring back something for the club. Pick up 50, 100, 200 small pieces of the material you collect that day. Wash and bag the material and label the bag. Anita Colin collects all the rocks and labels them.**

During our annual picnic in August we put all the sorted specimens into the cloth bags while we catch up with each other. We only get to eat AFTER the task is done!

**Please, remember to bring home grab bag specimens to donate to the club!**

## July Bagging Meeting – Help with the Grab Bags

The July bagging meeting, where we put specimens and labels in small plastic bags, will be at the home of Karen Manley and Fred Hall, located on north 47th Street. The bagging starts at 7:00 p.m. at 4561 47th St, Boulder, 80301.

## Would You Like a Club Name Tag?

If you would like a club name tag, we will be placing an order this spring. Just let Gabi Accatino know at the Silent Auction or contact her at [accatino@colorado.edu](mailto:accatino@colorado.edu). The cost of the name tags is \$5 each.

## Club Lapidary Equipment Available

The club has three locations for our lapidary equipment that club members can use.

- To use a Genie, Pixie, water saw, and flat lap, please contact Melanie Seaman at 561-573-3942 or [mseaman136@gmail.com](mailto:mseaman136@gmail.com) to schedule when to come and use the equipment at her house.
- One of our big saws is at Markus Raschke's house. Call him at 303-499-9157 to arrange a time to use the saw.
- Another saw is at Terry O'Donnell's house. His email address is [whee0297@msn.com](mailto:whee0297@msn.com).

## Volunteers Needed for Gold Panning

Volunteers are needed to help with a gold panning event hosted by the Western Colorado Chapter of the Gold Prospectors Association of America (GPAA) at Camp Wapiyapi, a camp for children with cancer in Estes Park. The event will be June 9<sup>th</sup> and 10<sup>th</sup> from 1:30-4:00 pm. There are camping and hotel/motel accommodations nearby. FMC folks can contact Donald Layden at [donald@pmgresources.com](mailto:donald@pmgresources.com) for the volunteer application which the camp needs, as they run background checks for anyone volunteering.

## Pink Star Diamond Breaks World Record



The stunning 59.6-carat Pink Star diamond (Credit: Sotheby's)

The largest, most perfect pink diamond was recently sold for \$71.2 million, setting a new world record for any diamond or jewel. The oval gem was purchased by the Hong Kong-based jewelry company Chow Tai Fook. The oval-cut, 59.6-carat Pink Star is the largest internally flawless pink diamond that the Gemological Institute of America (GIA) has ever graded. Until now, the most expensive diamond ever sold was the Oppenheimer Blue, which fetched \$57 million. The previous world auction record for a pink diamond was \$46.2 million for the 24.78 carat Graff Pink in 2010. The Pink Star originated from a 132.5-carat rough mined by De Beers in 1999.

Information from [www.mining.com](http://www.mining.com) and [www.npr.org](http://www.npr.org)

## Fossils in the News

Dennis Gertenbach

### Where did our jaws come from?

Mammals, reptiles, fish, birds, and amphibians all have jaws. But, where did jaws come from? In a new article published in *Science*, paleontologists from China and Sweden trace our jaws back to extinct placoderms, armored prehistoric fish that lived over 400 million years ago. Scientists have long known that the upper jaw bone and teeth could be traced to bony fishes, but sharks and other ancient fish do not have an upper jaw bones. Placoderm fish fossils show that these fish had plates or blades, not jawbones or teeth. However, newly discovered fossils of the placoderm fish, *Entelognathus* and *Qilinyu*, show these fish both had upper jaws with teeth, although they were quite different looking fish. The simplest interpretation of these fossils is that our own jaw bones evolved from the old plates of placoderms.

Information from

<https://www.sciencedaily.com/releases/2016/10/161020140810.htm>



Life reconstruction of *Qilinyu* along with *Guiyu* and *Entelognathus* in the ancient Silurian ocean.  
(Credit: Dinghua Yang)

### Wolf-size extinct otter discovered

Dr. Xiaoming Wang, Curator and Head of Vertebrate Paleontology at the Natural History Museum of Los Angeles County, and Dr. Denise Su, Curator & Head of Paleobotany and Paleoecology at the Cleveland Museum of Natural History, have published a paper with colleagues in the *Journal of Systematic Paleontology* on the discovery of one of



The wolf-size otter, *Siamogale melilutra*, lived in shallow swamps and ate large shellfish. (Credit: Mauricio Antón)

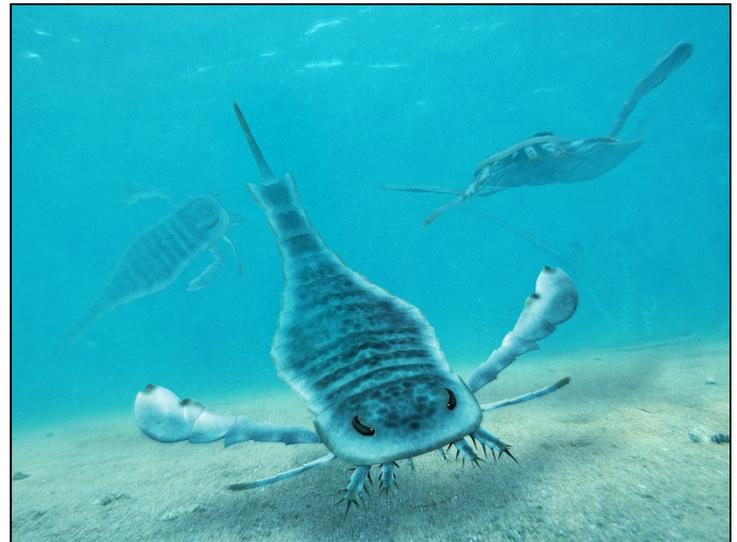
the largest otter species ever found. This newly discovered otter, *Siamogale melilutra*, from the Yunnan Province in southwestern China belongs to an ancient lineage of extinct otters that was previously known only from isolated teeth recovered from Thailand. Much of the head and skeleton was found. *Siamogale melilutra* was about the size of a wolf and weighed approximately 110 pounds, almost twice as large as the largest living otters. It had a large and powerful jaw, with large rounded teeth, suitable for eating large shellfish and freshwater mollusks.

Information from

<https://www.sciencedaily.com/releases/2017/01/170123115213.htm>

### Sea scorpions: The original sea monster

Four hundred and thirty million years ago, the monsters of the seas were not sharks or mosasaurs, but eurypterids, also known as sea scorpions. Related most closely to modern horseshoe crabs, and only distantly related to today's land scorpions, sea scorpions had thin, flexible bodies. Some species also had pinching claws and could grow up to 10 feet in length. Alberta scientists Scott Persons and John Acorn studied how one eurypterid, *Slimonia acuminata*, moved its tail. Their research showed that sea scorpions moved their tails from side-to-side, but not up and down (like modern land scorpions). Because of the flattened shape of their tails, the side-to-side motion would not assist swimming, but would allow the animals to use their serrated tails to slash their prey. The researchers hypothesize that the animals would hold prey in their claws and dispatch their prey with their tails. Among the likely prey of *Slimonia acuminata* and other eurypterids were ancient early vertebrates.



A reconstruction of a sea scorpion on the hunt. (Credit: <http://shellfishusness.tumblr.com/post/88586239743/giant-sea-scorpions-of-death>)

Information from <https://www.sciencedaily.com/releases/2017/04/170418125753.htm>

### Giant sloth was vegetarian

*Megatherium* was one of the largest land mammals known, weighing up to 4 tons and measuring up to 20 feet in length from head to tail. Living in South America, it was the largest known ground sloth, as big as modern elephants, and would have only been exceeded by a few species of mammoth. With long front and back claws, scientists have long speculated on the diet of these animals. Did the sloths use their claws to dig up and eat subterranean insect colonies? Did the long claws serve as hunting tools? Were the giant animals carnivores? Unfortunately, the teeth of giant sloths are very different from any modern animal, so they provided no clues about what the animals ate. By measuring the carbon isotopes of the collagen in fossilized *Megatherium* bones, the ratio of protein and mineral content could be



*Megatherium*, the largest of the giant sloths, was up to 20 feet long from head to tail. (Credit:

<https://www.pinterest.com/pin/496310821408139257/>)

determined. In carnivores, this proportion is much higher. Based on their analysis of *Megatherium* bones, a team led by scientists at the Senckenberg Center for Human Evolution and Palaeoenvironment at the University of Tübingen reported that these animals subsisted on an exclusively vegetarian diet, similar to modern sloths.

Information from

<https://www.sciencedaily.com/releases/2017/04/170418094855.htm>

### What were the oldest animals?

For the last decade, scientists have argued the question, what was the oldest branch of the animal family tree? For many years, scientists thought they were sponges. But, for the past decade, some scientists have argued that the oldest animals were comb jellies, a delicate marine predator. Now, a team of evolutionary biologists from Vanderbilt University and the University of Wisconsin-Madison have devised a new approach designed specifically to settle this and other contentious questions. Their analysis looks at hundreds to thousands of genes that are shared by all organisms. The gene sequences indicate which organisms are most closely related to others and which organisms were first to evolve. They found that comb jellies have considerably more genes, supporting that they evolved earlier. The new approach comes down squarely on the side of comb jellies.



*Modern comb jellyfish (Credit: kondratuk / Fotolia)*

Information from <https://www.sciencedaily.com/releases/2017/04/170410123957.htm>

## Other Rockhounding Events and Activities in the Area

Here is a list of rockhounding-related activities in the area for both adults and juniors that you might be interested in. Thanks to Pete Modreski of the USGS for providing many of these notices.

**April 29-30** (Saturday and Sunday) from 9 am– 4 pm is **“Another ridiculously exciting Book/Garage Sale”** at the **Colorado School of Mines Geology Museum**, 1310 Maple St., Golden. As the flyer on the next page states, “Thousands of maps; hundreds of books, journals, minerals, fossils, etc. Prices vary by item or box. Most prices will drop throughout the event.” For more information, please call 303-273-3815.

**May 6** (Saturday) is the **Colorado Mineral Society's Silent and Verbal Auction**, Holy Shepherd Lutheran Church, 920 Kipling St. (3 blocks north of West 6th Ave.) Lakewood, CO 80215, 11 a.m. – 2:45 p.m. Minerals, fossils, faceted stones, lapidary pieces, books, jewelry, and fluorescent minerals will be available. Door prizes every half hour and a raffle at 2:45 p.m. Special verbal auction at 1:00 pm of museum quality specimens donated by special dealers. Abundant parking, refreshments, and easy handicap access. A few auction tables reserved for only children to bid on. Checkout will begin at 2:45pm (cash or check only). Sellers can get copies of bidding slips on our club website (fillable and printable pdf file): see <http://www.coloradomineralsociety.org/>.

**May 13** (Saturday) is **Dinosaur Discovery Day – Boy Scout Day** at **Dinosaur Ridge**, Morrison, CO. Scouts, as well as the public, are invited. Parking will be off-site at the Bandimere Speedway overflow lot located east of C-470 and south of Alameda along S. Rooney Road. Signs will be posted. Parking is \$5 per car, paid as you enter. More than 80 earth scientists and other volunteers, including certified Merit Badge Counselors, assist with the event. There is a registration fee for participating Scouts, and a \$4 per person charge for persons (over age 3) who wish to take a bus tour of the ridge (no charge for just a walking tour). For full information see <http://www.dinoridge.org/scoutdays.html#bsa>.

**May 13** (Saturday) is the **Friends of Mineralogy, Colorado Chapter, Silent Auction** at Clements Community Center, 1580 Yarrow St., Lakewood CO. The auction is at 12:00-4:00 (setup begins at 10:30 am, auction begins at 12:00, verbal auction 1:00, all tables will close by 3:00 pm, checkout follows). For more info see <http://friendsofmineralogycolorado.org/>.

*Announcing another ridiculously exciting Book/Garage Sale*



**CSM Museum**



1310 Maple Street, Golden, CO

**April 29+30, 2017  
9 A.M. - 4 P.M.**

Thousands of maps; hundreds of books, journals, minerals, fossils, etc.

Prices vary by item or box. Most prices will drop throughout the event.

Information: 303-273-3815

54th Annual

# Pikes Peak Gem, Mineral, and Jewelry Show

Featuring Pyrite

Fri. & Sat., June 2-3, 2017, 10:00-5:00 / Sun., June 4, 2017, 10:00-4:00  
Adults \$5.00 / 3-Day Pass \$8.00 / Kids 12 & Under FREE

**MORTGAGE SOLUTIONS  
FINANCIAL EXPO CENTER**  
3650 N. Nevada Avenue  
Colorado Springs, CO 80907

(From I-25 go east on W. Garden of the Gods Rd., turn south on N. Nevada Ave., 1 mile on right)







Sponsored by: Colorado Springs Mineralogical Society      ppgmjshow@gmail.com

**June 2-4** (Friday-Sunday) is the **Pikes Peak Gem & Mineral Show**, sponsored by the Colorado Springs Mineralogical Society. The show will be at the Mortgage Solutions Financial Expo Center, 3650 N. Nevada Ave., Colorado Springs.

**June 8-11** (Thursday-Sunday) is the **Fairplay Contin-Tail Rock, Gem, and Mineral show** at the MiddleFork RV Resort, 255 Highway 285, Fairplay, CO; see [www.facebook.com/ContinTail](http://www.facebook.com/ContinTail).

**June 10-11** (Saturday and Sunday) from 9 am to 3 pm is **GEODyssey's Annual Mineral & Fossil Home Sale**, 15339 West Ellsworth Drive, Golden, CO 80401 (303-279-5504). This 2-day sale will be featuring specimens obtained on a trip to Bulgaria, as well as specimens from their personal collection. All specimens are a minimum of 20% off, with bigger discounts for volume purchases. They will also feature jewelry and beads. You can preview some representative specimens on our web site, [www.geodyssey-rocks.com](http://www.geodyssey-rocks.com).

**June 16-18** (Friday-Sunday) is the **Victor, Colorado Gem and Mineral Show**, Victor, CO; see <http://victorcolorado.com>.

**June 25** (Sunday) is a **geologic field trip through South Park**, led by Peter Barkmann, Colorado Geological Survey. A one-day field trip sponsored by the Florissant Scientific Society; all are welcome to attend. Details are still TBA.

## **Denver Gem & Mineral Show Mini Report April 2017 50th Anniversary Show**

The 50th Anniversary Denver Gem & Mineral Show will be a memorable show! Remember the theme is **GOLD AND SILVER!** The dates are September 15-17, 2017 and the venue is the usual Denver Mart, 451 E. 58th Avenue (exit 215 on I-25). The Show Chair is Lesley Sebol, 720-999-1372 or [lesleysebol@gmail.com](mailto:lesleysebol@gmail.com).

There are many opportunities for you to promote and help with the show. One is coming up on May 13. That is Boy Scout Day at Dinosaur Ridge. Boy Scout Day is the biggest day all year for the ridge. The show will have a booth there to give away rocks, show posters, and post cards, and to talk to people about the show. The booth is being planned and organized by Kathy Honda and she would love to have your help. You may contact her at [katherine.honda@ucdenver.edu](mailto:katherine.honda@ucdenver.edu). If you have never been to the Ridge on Boy Scout Day, you are in for a real treat. There are all kinds of activities happening and the Scouts create an exciting atmosphere all day long.

As has been said many times before, the show is an all-volunteer effort, put on by the members of the eight local gem, mineral, and fossil clubs. It requires about 400 volunteers to operate the show at show time. The Show Committee depends on the clubs for these volunteers. The volunteer sign-up sheets are available at your club meetings. Please be generous with your time and energy to support the show. The show is the annual event where you can fully immerse yourself and enjoy the gem, mineral, and fossil hobby that we all love. Join your peers and volunteer!

There are currently several open positions on the Show Committee. There is a need for a Grab Bag Chair. This is not a terribly difficult job, but primarily involves organizing the grab bag, pin, and poster sales tables at the show. The most important part is finding additional volunteers to assist at the tables during the show. The former chair maintained a list of volunteers from prior years. It is fun to sell the bags to all the children. The second position is the Signs Chair. This person orders the new dealer and other signs for this year's show and puts them up on Thursday before the show. Of course, there is quite an inventory of signs from prior shows which are also used. Another position is the Database Chair. This person enters new information from the show door prize coupons to maintain our database of attendees for publicity purposes. This function can be performed at your leisure during the year after the show. Another position is Show Pin Chair. This job involves designing the show pin and ordering it in time for the show. None of these jobs are terribly difficult but all contribute to the show. If many people do something, we will have a successful show.

So think about the show. It's only a few months away and there will be only one 50th Anniversary Show. Let us all make the best of it! Remember we are counting on you to help us! And we know you will not disappoint.

Respectfully submitted, Judy Knoshaug, Show Secretary

# Officers, Directors, and Other Volunteers

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### Volunteer Chair

open

### Programs and Dealer Chair

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### Show Advertising and Admissions

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Eileen Fitzgerald, 303 666-1399  
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### Grab Bags

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[anitacoln@hotmail.com](mailto:anitacoln@hotmail.com)  
Charlotte Bourg, 970-278-0975  
[rckhnd4252@gmail.com](mailto:rckhnd4252@gmail.com)

### Meeting Door Prize Chair

Brad Willkomm, 303 249-8877  
[bpwillkomm@yahoo.com](mailto:bpwillkomm@yahoo.com)

### Denver Show Club Table

Dennis Gertenbach, 303-709-8218  
[gertenbach@comcast.net](mailto:gertenbach@comcast.net)

## A friendly reminder to pay your 2017 annual dues

Dues are still only \$18 per individual and their immediate family. You can pay in two ways:

**PAY** Gerry Naugle, Treasurer and Membership Chair, at any FMC monthly meeting. Gerry is at or near the sign-in table when you enter the room for the monthly meetings.

**SEND** a check made to "Flatirons Mineral Club" or "FMC" to P.O. Box 3331, Boulder, CO, 80307. Please do not send cash in the mail.

Your 2017 dues must be received by January 20th, 2017 in order to stay current with the member benefits, which include electronic club newsletters containing the information about club activities, club field trips information, annual show opportunities, silent auction opportunities, and the annual club summer picnic. Your receipt is your new annual 2017 FMC membership card.





Flatirons Facets  
P.O. Box 3331  
Boulder, CO 80307-3331

## First Class Mail

## *Upcoming Events*

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Thursday, May 11	Club Meeting: Field trip for 2017	Frasier Meadows, Boulder
Wednesday, May 17	Jr. Geologists Meeting: Earth in Space	Meadows Branch Library, Boulder
Friday-Sunday, May 27-29	Boulder Creek Festival	Along Boulder Creek in Boulder
Thursday, June 8	Club Meeting: 60th Anniversary Celebration	Frasier Meadows, Boulder