

Lithosphere

Volume XV, Number 4

Fallbrook, California



ELKHORN SCARP ALONG SAN ANDREAS FAULT



Fallbrook Gem and Mineral Society, Inc.

April

2007

Fallbrook Gem and Mineral Society, Inc.

123 W. Alvarado Street Suite B, Fallbrook, CA 92028

760-728-1130 www.fgms.org Email: fgms@sbcglobal.net

<http://www.fgms.org/>

President	Gina Palculich	(760) 728-2196
Vice President	Mary Fong-Walker	(760) 723-3484
Secretary/Office	Liz Yamaguchi	(760) 728-7233
Treasurer/Director of Finance	Vanessa Jones	(760) 598-0152
Director of Facilities	David LaMarr	(760) 731-2188
Director of Publicity	Bill Hollingsworth	(760) 726-5878
Director of Public Programs	Elizabeth Cheatham	(760) 731-0436
Director of Education	Janice Bricker	(760)-728-1333
Director of Member Services		

FGMS Museum

Museum Curator	Garth Bricker	(760) 728-1333
Assistant Curator	Mike Evans	(760)-414-9722
Gift Shop	Elizabeth Cheatham	(760) 731-0436

Lithosphere Editor and Webmaster

Patricia Hartman 760-723-6624

Calif. Federation Representative

John Frey 951-677-4043

Fund Raising Chair

John Watson 760-723-6539

Volunteers for Minerals Representative

Garth Bricker (760) 728-1333

Membership/Refreshments

Janice Bricker 760-728-1333

Publicity

Anne Ondraka 760-728-8004

Programs

Mike Evans 760-414-9722

Scholarship

John Watson 760- 723-6539

Field Trips

Matt Boeck 760-216-8971

Historian

Lyn Huettl 760-845-0599

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Full page, 7"x4.5" = \$120.00 for 10 months, or \$14.00 per issue.

Half-page, horizontal 3.5"x4.5" = \$60.00 for 10 months, or \$7.00 per issue

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advertising in the *Lithosphere* must be related to the educational focus of the Fallbrook Gem and Mineral Society and its publication the *Lithosphere*.

Deadline for all advertising is the 15th of the month preceding the month of publication. The *Lithosphere* publishes monthly during the 10 month period between September and June. Classified advertising is free and

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Contact the editor Patricia Hartman for more information at 760-723-6624 or email to patricia@hitekdesigns.com. Or write to the editor at PO Box 1390, Bonsall, CA 92003.

Cover and inside Photos courtesy of Davod Lynch www.thulescientific.com/

**FGMS April 12th Meeting
at 7:00p**

The San Andreas Fault

Dr. David Lynch



David Knight Lynch received a B.S. in Astrophysics in 1969 from Indiana University and a Ph.D. in Astronomy in 1975 from the University of Texas in Austin. He is

Senior Scientist at The Aerospace Corporation where he specializes in infrared spectroscopy of comets, novae, supernovae, young stars and very old stars. Dr. Lynch has held research positions at the Sacramento Peak Observatory, Caltech, UC/Berkeley, Hughes Research Laboratories and The Aerospace Corporation. He has published over 150 scientific papers and 10 books. He has organized 12 international scientific meetings. Dave's recreational activities include playing the fiddle in assorted southern California bands, camping, collecting rocks and rattlesnakes and reading the New Yorker. He also enjoys writing and recently won the 2004 Bulwer-Lytton Fiction Contest (Romance Category).



The slow, jerky motion of the San Andreas Fault along Cienega Rd south of Hollister California is taking its toll. Here, the inexorable March of the Fault is gradually splitting the main aging cellar of the DeRose Vineyards (formerly the Almaden Winery).



Miracle Hill Scarp and Pressure Ridge. The San Andreas Fault passes directly through the city of Desert Hot Springs, California. Hundreds of thousands of years of movement along the fault and compression across the plate boundary have raised Miracle Hill, a combinations fault scarp and pressure ridge, in the middle of town. In this picture looking south, Mountain View Drive cuts diagonally across the fault.



Mound of Gouge. Gouge is a powdery, chalky and sometimes putty-like or sticky material found at a fault plane. It's basically pulverized rock. During an earthquake, frictional heating between the grinding plates creates extremely high temperatures, occasionally melting the rock in very small regions and producing unusual chemistry.

SUMMARIES OF BOARD MEETINGS OF THE FALLBROOK GEM & MINERAL SOCIETY

February 19, 2007 For April Lithosphere (Approved by the Board at the March 10 meeting)

At this Special Meeting the Chair of the Architect Committee, Pete Bancroft, presented his recommendations. He would like his Committee's charter enlarged to include property planning. With Pete's donation of more than \$10,000 an architect has been employed to draw plans for the atrium and he also has a suggestion for the lot. The Committee followed up on this suggestion in discussions with various townspeople.

The Board asked Mick Palculich and David LaMarr to meet with Vince Ross and FCDC (who has a legal agreement with us to buy half of our vacant property) to discover how they would feel about any change in lot usage. The Board requested written reports and asked to view the building plans before presentation.

March 3, 2007 For April Lithosphere (Approved by the Board at the March 10 meeting)

Since five members were absent, this meeting went forward with Elizabeth Cheatham (who was home recovering from surgery) on speaker phone. The major item discussed was the Report from Mick Palculich and David LaMarr (absent because he was presenting our fossil dog info board and specimens at the Dog Walk). The report was an account, in chart form, of Mick's and David's meeting with Fallbrook Community Development Corporation (FCDC) representatives Vince Ross and Mike Weber. The Board moved to appoint Dave LaMarr Alternate Liaison to serve with our appointed Liaison to FCDC, Mick Palculich. The Board also agreed to conduct a series of Workshops with FCDC to develop a "want list" and to discuss new possibilities for the lot (Mick and Dave to Chair the Workshops).

Gina was authorized to spend up to \$500 to open the Pala Chief Gem Co. safe and fix it so we can use it. A Resolution was passed authorizing the submission of the TOT request for funds (\$3,000). A Continuation Board Meeting was authorized for the following week so that absent Directors could present their reports.

March 10, 2007 For April Lithosphere (Not yet approved by the Board)

The Minutes of the February 3, February 19 (including everyone's comments), and the March 3 Board meetings were approved. President, Gina Palculich was authorized to obtain a quit claim document for us to present to the Historical Society. It was decided that, since no one was working on the 50th Community Celebration and Fund Raising event, it should be tied in with the Fall Festival.

Our Leaseholder, Curves, has informed us that they are leaving. Vice President, Mary Fong/Walker will write to them affirming this and giving them until the end of the month to remove their equipment. The Board approved replacing locks and re-keying the building. There was discussion regarding the committee set up January 6 to immediately move into the leased room when Curves leaves (Dave LaMarr, Elizabeth Cheatham and John Watson). It was decided that it would be better to call the space Suite A rather than refer to it as the Curves Room. The desire is to move into it with minimal expense what we now have in the downstairs museum and gift shop. A Cash Flow report is needed to see if we can make our mortgage payments without the leasing Suite A.

There was more discussion regarded additions to the Architect Search Committee. The outcome was that Gina, with Mary's assistance, would write a letter to all concerned that the Board does not want the existing Committees to merge and that three Committees are needed with the following charters: 1) Finance - Cash Flow and Budget Committee (Bill

Hollingsworth, Vanessa Jones) to develop a report that shows how we can make our monthly mortgage payments without the income from Suite A. 2) Suite A Renovations Committee (B.J., Dave and John) to develop a cost and timeline for moving the contents of the downstairs museum and gift shop into Suite A.

3) Architect/Atrium Committee (Pete, John, Bill and Dave) to develop plans and a timeline for the Future Museum and Atrium as pictured by Oscar Warren for John's PowerPoint fund raising.

Announcements

"GEOLOGY 101" LECTURE RESCHEDULED

Due to conflict with a family obligation, Pam Bruder has rescheduled her lecture, "Geology 101, Everything You Always Wanted to Know About Rocks!", from May 12th to September. The exact new date, not yet determined, will be announced at future FGMS meetings and printed in the Lithosphere. Mrs. Bruder, MA (Geology and Paleontology) has also decided to expand her presentation to two lectures that will serve as the foundation for a continuing FGMS lecture series featuring a variety of speakers.

RUMMAGE SALE

Curves is moving out of the FGMS building and we are going to have a rummage sale before we rent or develop the room. Please bring rummage to the Museum after the 1st of April and we will have a rummage sale in conjunction with the April 22, Avocado Festival.

HELP WITH EVENTS!

Help! The FGMS is participating in two Fallbrook Street Festivals in April and any assistance you can give us will be greatly appreciated. We will have work parties on the Saturdays preceding.

"Art and The Book" is Sunday, April 1. We will keep the Museum open all day and in addition to tours of the building we will have children's mineral and fossil books for sale in the Gift Shop. John Watson is preparing an exhibit of rare books in our library and we will have a special display of salt crystals to tie in with the "Community Read" this year, which is Julia Child's "My Life in France." Julia's great nephew, who co-authored the book, lives in Fallbrook. Four authors will hold a Workshop in our Tourmaline Room in the afternoon.

Sunday, April 22, is Fallbrook's famous Avocado Festival. In addition to tours through the Museum, we will have a square of tables in the street in front of our museum. Minerals and jewelry will be sold there as well as those we always sell in the Gift Shop. We are planning several children's activities, among them gold panning, geode cracking, rubbings, etc.

On Sunday, April 29, Alec Conley has again volunteered to oversee our table at Arts in the Park. This is a festival of children's artistic activities held in Live Oak Park and Alec has been doing this for us for four years. Help is needed in setting up and taking down and helping to staff the activities. Alec and his wife Nell were featured in a Village News article on Fallbrook's new Carver's Pavilion at the Foundry (on East Alvarado, three blocks from the FGMS building).

UPDATE ON ERICH FROM LAURIE KERN:

"Hi all,

Erich has been doing great, he has been getting around on his own with out a walker and they took out the stitches at the end of last week.

They are finishing up a final course of anti-biotics (not Auntie Biotic) just to be safe and.... (wait for it.....)

On Friday afternoon, Erich is to be released and I will finally get to take him home YIPEEEEE.

Yolanda and a very tired Laurie"

<p>The people bringing cookies for April are: Helen Bancroft and Anne Ondraka</p>
--

SAN ANDREAS FAULT FIELD TRIP

Come join MSSC and Fallbrook Gem and Mineral Society members on a day of exploring the San Andreas fault from Palmdale to Wrightwood. Beginning with the famous Avenue S and Highway 14 road cut, we will explore how the fault controls the southern California landscape. Examine how it disrupts the normal flow of surface and ground water and creates springs, off-set streams, sag ponds, and other lakes. Examine evidence of the great 1857 earthquake and learn how the prehistoric average recurrence interval for large quakes in this area has been determined to be about 160 years. Visit the scenic Devil's Punchbowl for a view of the complexities of the plate boundary. See

first hand how living on the fault impacts the city of Wrightwood. Collect large specimens of actinolite and sparkly hexagonal graphite micros as souvenirs of the day's outing.

The trip will be led by Dr. Janet Gordon, Professor Emeritus of Geology, Pasadena City College. Over the years she has introduced hundreds of students to the San Andreas fault and its role as a plate boundary.

When: Saturday, May 12, 2007. Meet between 8:00 and 8:45 in the Pasadena City College Geology Dept., Building E, room 210 to fill out release forms, pick up field guides (including driving instructions), and organize car pools. The mineral museum will be open during this time. The trip will depart from PCC promptly at 9:00 and head for Palmdale. The trip will end in Wrightwood about 5:00 p.m.

Driving instructions to and marked campus maps for PCC are on the MSSC web page: www.mineralsocal.org. Click on the "meetings" link.

Logistics: Be prepared for hot to cool weather. Bring a picnic lunch, plenty of water, hat, sunscreen plus a rock hammer, safety glasses, and hand lens. Please have enough fuel in all vehicles to make it to Wrightwood. MSSC will have a supply of \$5 Forest Service Adventure Passes for purchase and use as needed. Expect to walk a few hundred yards now and then for the best view of the geology.

Reservations are required by May 5!

It is important to keep the number of vehicles on this trip to a minimum, so reservations and car-pooling are essential. It is expected that all who wish to attend can be accommodated, but the trip may fill.

To make reservations please contact Janet Gordon with the following information: 1. Names of all persons in your party. 2. Who you plan to car-pool with or if you can carry additional passengers. 3. Contact phone numbers and e-mail address. Janet can be reached at 626-441-6715 or at jggordon@pacbell.net.

NEWS & NOTES FROM THE CFMS FOR APRIL 2007

The following is an excerpt from Aprils "The Presidents Corner" column written by current CFMS president Mr. Dick Pankey.

"Since becoming a card-carrying rockhound in 1990 I have parked my trailer in a cow pasture the first weekend in May, rain or shine. Why? To attend one of the greatest Rockhound events in California (and possibly in the West) - the Snyder's Pow Wow in Valley Springs, CA.

The first Snyder's Pow Wow was held in 1975. Once just a group of rockhound looking for agate, moss opal, serpentine and jasper on the back of the ranch has grown into a grand gathering of people who specialize in every aspect of rocks, gems and minerals, and a diverse community event. Over 200 dealers and tailgaters from all over set up in the huge meadow to sell and display. Walk down the aisles and you will find countless non-profit and community groups who participate in the Pow Wow. Over the years other attractions were added: field trips on the ranch, Chuggers Lane (antique engines) and Model A trucks and cars,

Native American dancers, mountain men camp, radio controlled airplanes, Blue Grass musicians and a variety of great food. In May the Pow Wow is the place to be. Area Gem and Mineral Clubs make a long weekend of it and camp together in the pasture.

What makes the Snyder's Pow Wow so special is Betty and John Snyder. For 33 years Betty and John have hosted this wonderful weekend. And as true hosts they have made everyone that attends, both dealers and guests, feel welcome and that they are having a good time. You are treated like family. Betty and John not only run the Pow Wow they work at it, also. Betty is at the front tent signing in dealers and campers: making sure that everything is running smoothly. John is out and about taking care of details, servicing the outhouses, emptying garbage, shoeing a stray calf back to the other side of the fence. They operate a working cattle ranch but it is obvious that the Pow Wow is their work of love. Through their years of dedication and efforts with the Pow Wow, the Snyders are a great supporter of rock hounding and our hobby, and are a promoter of good stewardship of the earth and of nature.

Through the years many future rockhounds have been introduced to our hobby at the Pow Wow. On Friday morning a caravan of yellow school busses from area schools deliver their students for this very special field trip. People return year after year - bringing their children and eventually their grandchildren. There is a lot of good history and good memories at the Pow Wow. Ellen Schultz (Past President of CFMS) and her husband Carl would do an evening "Rock Concert" and

Ellen led the worship service in the Old Red Barn on Sunday and played hymns on her Triple Octave Shaker Chimes.

The Pow Wow has always been special for me. For the last several years my wife, Betty, and I have been the wagon masters for the combined Ye Old Timers Mineral Club and the North Bay Field Trips camp. Our groups have volunteered to help direct traffic at the Pow Wow. "Working" at the Pow Wow has given all of us a sense of belonging to this event."

I hope that everyone will have a chance to attend and enjoy this great rockhound event. This year the Snyder's Pow Wow is on May 4th - 6th in Valley Springs, Calaveras County, CA. A quick google search will find several websites and directions devoted to this event.

The Federation Box Swap has continued to grow to the advantage of its many participants. For the past two years, the Federation Box Swap has been issuing guidelines for swapping specimens through the United States Postal Service. Clubs in 21 states have traded ten pounds of material at a time. Now normally this would be a serious expense was it not for the discovery of the Flat-Rate Box that the post office hands out for free to encourage the use of its services.

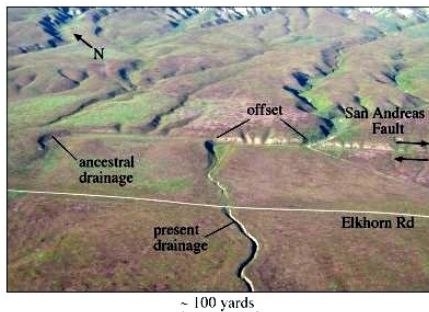
This is just a reminder that clubs in several states are ready to do some trading from their local sites. You can find some wonderful material coming from across the country.

The guidelines are simple. Choose a category for your trades. Make it mineral crystals, mineral lapidary, fossils or work within several categories. Follow the packing rules of providing appropriate labels of ID and location for each

specimen. Put each specimen in its own wrap to cushion it and then cushion between specimens. Let the Federation Coordinator know when the specimens are packed. He will find a possible trades for your category. It's that simple. Trade once a year, or as often as you can accommodate the activity. Only send the kind of specimens that you would want to receive. Discuss this with your club members. When you are ready to suggest trading to your club, send for the introductory letter from the Federation Box Swap coordinator.

Michael Kessler, 4 Longfellow Road
East Stroudsburg , PA 18301

(570) 421-3113
Quartz7228@aol.com re: Box Swap



San Andreas Fault in the Carrizo Plain
famous offset in Wallace Creek

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Garth Bricker,

FGMS Member and Museum Curator

April 2007



**THE RED
CLOUD
MINE.**

During the time I worked for Wayne Thompson I'd go

one week a month and near the end of the 1997 season I got to the mine and Bob Johnson

had found a very huge mass of wulfenite crystals. I described the location last month but I haven't described what lay out before me. I was gone when Bob struck the area and much of the best wulfenite was gone to Phoenix or buyers. Wayne had been there with a buyer and I think they had come by air probably to the Martinez Lake airstrip. I think I heard that the buyer bought a very nice wulfenite on matrix of the multi-thousand dollar range. All I saw was wulfenite. Wulfenite matrix pieces on the ground, on tables and in a wheelbarrow. The one in the wheelbarrow was just small enough to fit in the wheelbarrow with no room to spare. It was slathered with wulfenite crystals over the entire surface. This is how most of the pieces looked. There was just too much to haul away before I got there.

Most of this wulfenite was not of the classical color, bright, clean, with no etching of the surface and little iron in side the crystals. It was duller. When I got there, the wulfenites of better color were gone.

I did go to Phoenix to photograph a lot of the wulfenite but not the best. I also got paid a goodsized matrix pieced for the winter's work. Back at the mine I kept on digging in the area where Bob had used the excavator to lift up a big chunk of rock and exposed a good quality cluster of wulfenite but it was on a huge slab of calcite matrix. This was before the big pocket and he had brought along his diamond hand held gasoline saw and cut the crystals out of the slab. If he had pounded on the big chunk, probably all the crystals would have popped off. It is not safe to hammer on matrix pieces. You lose the crystals more often then not. If you can get a fist sized piece with crystals, you will still have them when you get home.

A while back I had dug out a very nice matrix piece and several of us went up to the Clip mine area, which was just a dirt road in front of the dives mine and beyond. When we got back to the Red Cloud, my wulfenite was sitting right next to the matrix. I glued it back on but now the label reads, "repaired". You can't get bored at the Red Cloud but you might shed a tear or two.

Which reminds me of a student I had in 4th grade, Fred Rasp, but then just out of high school, who I took along with me. We were down in the mine in the hot room so called because the room was up a ways from the main path through the mine and cool air didn't get up there and the air was held there. This was a very good place to dig having the very fine color and bigger crystals. A very nice place to dig. I had gotten some display wulfenites out of that hot room. Fred was having a good time digging there and also pulled out a very nice matrix piece with I inch plus crystals. He stored these away in toilet paper in an egg carton until we left for home. After getting in and sitting down he unwrapped the crystals and placed them down next to him on the left. We were about out to US 95 after leaving the Red Cloud with the windows down to catch the great beautiful weather. A bee flew in and buzzed around and lit on Fred's wulfenite. With lightning speed that a youthful boy possesses he struck that bee dead at his side, the left side. How many times have you seen a teenage boy cry.

One other time I was headed out with Fred and he was old enough to drive so I let him drive as we got back on to US 95 heading back to Yuma. But Fred turned left heading away from Yuma and instinctively made a U turn to get back in the right direction. My International truck is a workhorse and hardly ever fails but to pay for this great service it makes tremendously wide arcs in order to turn. This is where experience comes in handy along with age because Fred ran off the road and pulled up to the road but the trailer was left hanging tipped off the edge of the road. We were there and would have been there for quite a while but for the

Army at the Yuma Proving Grounds who happened to be very near because that's their turn off. They came over and asked if we needed help. Did we ever! They pulled us out and we were on our way again with a more experienced driver. You just can't get bored at the Red Cloud.

There are a lot of mines to the south, east and north of the Red Cloud. As you get near the Red Cloud you go by the Black Rock mine on the Black Rock Wash leading to the Colorado River. The Red Cloud wash and the Black Rock wash met on their way to the Colorado River. Just a little way down the Black Rock wash after you pass the start of the Red Cloud wash you come to a narrow area with big rocks on both sides of the wash and a continuation of the big rocks goes across the wash blocking your way.

At the intersection of these two washes is a fairly flat area with a mine on the edge of the wash that you can get down into. I found some old fashioned fuse down there and a Ring tailed Cat. The cat got out of there. A little ways back is the Black Rock mine that I went down into. Some years ago there were several ways to get down in to the lower portion where I found steps that led down deeper but was not too safe. Just above that I found long, slender crystals of vanadinite on matrix. This is the only place in the area with long, slender vanadinite crystals. I went back years later after they had done some work in the mine and you couldn't get down into the lower levels. You'd have to dig your way back down if you knew there to dig.

I had pictures of the Black Rock mine in 1880 and on one trip I climb out of the Black Rock wash and up the other side to about the elevation where the 1880 picture

was taken about 100 years ago. The original photograph had some mining activity but looked similar in general. The holes in the side of the hill were still there along with the dump leading down to the wash. Instead of cars they had horses and wagons hauling the ore to the Colorado River. They probably went by way of the Red Cloud Wash due to the rocks in the Black Rock Wash. Before the state put up signs saying this area over to the Colorado River was now closed to vehicles due to being in a bird sanctuary, you could drive all the way to the river on the floor of the wash which was paved with rocks and not get stuck in the sand. This is another reason the miners hauled the ore on the Red Cloud wash from the Black Rock mine and the Red Cloud mine.

Pete Bancroft and I went to the Red Cloud area in 1988 to check it out before writing the Mineralogical Record article entitled, "Arizona's Silver Mining District." One area we surveyed was the end of the ore wagon's trip to the Colorado River where they melted the ore to get the silver and lead out. We found an area near the edge of the river full of charcoal and slag. The whole ground was full of black burnt charcoal and melted rock. This area was called Norton's Landing and all around us were tules and especially in a low area to the left before you came to dry higher land. In the old 1880's pictures of the river and the paddle wheel steamer, water was open where the tules are now. This used to be the backwater channel where the steamer would dock and load wood and brush for the steam engine and lead and silver was put aboard. This was documented in old photographs. Using the old photo of the workers and their equipment and the paddle wheeler you

could place where all this took place. The mountains behind matched the mountains now, no change after 100 years. I've always wanted to go back and walk through the tules which was water back then and explore the work site and look for artifacts left by the workers and maybe find old coins. There were still piles of Red Cloud ore with wulfenite here and there that hadn't been processed. Send me your stories.
garthbricker@roadrunner.com

TIPS AND TRICKS

(FROM THE VENTURA GEM & MINERAL SOCIETY)

• Pre-polish for Faceters:

Faceters pre-polish at 3,000 and finish at 50,000. If you use 8,000 diamond to prepolish, your material will pit and take 10 times as long to polish! Via Pegmatite March 2007 via John Franke of the Facet Shoppe.

• Removing Lacquer:

Ever want to remove a lacquer coating from an otherwise nice piece of lapidary material?

Want to avoid using harsh chemicals? Here is a tip for you. Obtain some apple cider vinegar, the brown colored kind. Submerge the lacquered object in it, leave for a week, then remove and scrape off the lacquer with your thumbnail or other appropriate blunt tool. Repeat if necessary.

Via Pegmatite March 2007 (SDMGs member Mary Jane Dunn says it really works!!)

Field Trip

APRIL 29, 2007, SUNDAY.

Himalaya Mine in Mesa Grande, near Lake Henshaw. Meet at Dudley's bakery in Santa Ysabel. RESERVATIONS must be made with field trip. Chairman, Matt Boeck, 760-216-8971, also he will give you more information. Cost \$50.00 per person.

FGMS field trip Schedule 2007	Dates	Cost NOTES
Stuart Lithia mine <u>fee dig. Tourmaline, Pegmetite minerals</u>	25-Mar Sunday	need 10 people \$50 min
Himalaya mine	30-Jun Saturday	\$50
Club Goes Dark, Meteor shower overnight Thursday mine. <u>Lepidolite</u>	8/11-12/2007 Sat/Sun	<u>Perseid</u> meteors Call After 6pm
Fallbrook Gem Museum/Ocean-View mine Educational trip/fee mine	30-Sep Sunday	\$46 need 10 people
<u>Owen's Valley with Imperial Consolodated Mines</u> <u>Garnet, Petwood</u>	27-Oct Saturday	limited group trip
Wiley Well, multi day trip Geodes, <u>Psilolamane, Chalcidony roses</u>	11/22- 25/2007 Sunday	
To be arranged	30-Dec Saturday	
Please contact Matt Boeck, 760-216-8971		

April

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 Art of the Book 11- 4	2	3	4	5 Beading Brigade 10:00 Grab Bags 1:00	6	7 Board Meeting 10:00 - 12:30
8	9	10	11	12 Beading Brigade 10:00 Grab Bags 1:00 Regular Meeting 7:00	13	14 Work Party 9:00 - 1:00 Pot Luck Lunch 1:00
15	16 Last day to submit for Lithosphere	17	18 Begin preparation for Avocado Festival.	19 Beading Brigade 10:00 Grab Bags 1:00	20	21
22 Avocado Festival 9 - 5	23	24	25	26 Beading Brigade 10:00 Grab Bags 1:00	27	28 Field Trip Scheduled
29	30					

2007

May

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3 Beading Brigade 10:00	4 Grab Bags 1 - 4	5 Board Meeting 10:00 - 12:30
6 Wildlife Festival	7	8	9	10 Beading Brigade 10:00 Regular Meeting 7:00	11 Grab Bags 1 - 4	12 Work Party 9:00 - 1:00 Pot Luck Lunch 1:00
13	14	15	16 Last day to submit for Lithosphere	17 Beading Brigade 10:00	18 Grab Bags 1 - 4	19
20 Art of the Flower	21	22	23	24 Beading Brigade 10:00	25 Grab Bags 1 - 4 Hot Summer Nights	26
27 Field Trip to be arranged	28	29	30	31		

2007

Legal Information

The Fallbrook Gem and Mineral Society is a §501(c)(3), non-profit, educational and recreational organization dedicated to promote the study of mineralogy and allied earth sciences; to study and practice the art of lapidary; and to promote good fellowship.

Regular meetings are held at 7:00 pm on the second Thursday of each month, except February (generally the third Thursday) and July and August (no meetings), at 123 W. Alvarado St. The public is invited to attend our museum located at 123 W. Alvarado. The museum is open Thurs., Fri., and Sat. 11am to 3pm and during special events in the downtown area or by appointment. Annual dues are \$25 for adults, \$20 for each additional adult in the same household; \$6 per child to age 17. The initiation fee is \$6 per person. Membership fees must be submitted along with an application, obtainable from the Society or its web site.

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Lithosphere Staff: Garth Bricker. Website: <http://www.fgms.org/>—Webmaster Patricia Hartman: Webmaster@fgms.org

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Lithosphere

Fallbrook Gem and Mineral Society

Patricia Hartman Editor

123 W. Alvarado St. Suite B

Fallbrook, CA 92028

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