

Lithosphere

Volume XV, Number 5

Fallbrook, California



WHITE MOUNTAINS NEAR BISHOP, CA

Fallbrook Gem and Mineral Society, Inc.

May

2007



Fallbrook Gem and Mineral Society, Inc.

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Cover and inside photo by P. Hartman and inside Photo courtesy of Janet Gordon.

**FGMS May10th Meeting at
7:00p**

Rutile Digging in the White Mountains

**by Garth Bricker and Mike
Evans**

Garth Bricker is the FGMS Museum Curator and Mike Evans is the Assistant Curator. They will give a talk on the White Mountains of California and the Rutile diggings. Garth and Mike have both dug there numerous times in the past years and

have many slides of the area and lots of stories to tell.

The photo shows a hole (needle) punched through a mountain peak in the White Mountain range near Bishop, CA, at a 1920's mine worker's camp. The "needle" can be seen from the lower camp.

This hole is at 9000 ft. where snow feeds into a little creek all summer long.

There are numerous holes made by the miners looking for andalusite, the ore for the Champion Spark Plugs. Andalusite doesn't expand or contract when heated to a high degree. It is great for spark plugs. They are heated greatly when making sparks to ignite the the gasoline to run the engine.



Photo by Garth Bricker

People bringing refreshments for May are: Gail & Jim Kerry and Veryl & Dave Mitchell.



White Mountains Ridge photo by P. Hartman

SUMMARIES OF THE APRIL 7TH BOARD MEETING OF THE FALLBROOK GEM & MINERAL SOCIETY

After the minutes of the March 10 meeting and the Financial Report were accepted, Mary Fong/Walker described the plans for the Avocado Festival. She also reported on the status of Curves (they have moved out). Vanessa Jones, with help from Bill Hollingsworth, presented a cash flow analysis regarding the financial impact of losing the lease income from Suite A. Gina read a statement from Liz (who was ill) expressing concern about the Collections Committee not using our collections management policies and procedures. She will ask the Collections Committee to take this up today at their meeting after the Architectural Atrium Committee. Mike Evans was thanked for the good job he has done as Program Director. A letter will be sent to this effect. Dave LaMarr was authorized to spend \$4,000 of Supervisor Horn's Community Projects grant for the fence and \$2,400 for the stuccoing and waterproofing of the building. The new Website is up and running and needs to be visited. Please give the Webmaster your comments and suggestions.

At 1:00 pm the meeting was temporarily adjourned to view the presentation and booklet on the proposed new museum. When the Board reconvened, the members approved the idea of a conceptual plan for a museum complex sometime in the future. Moving the existing displays and museum shop

into the Curves Room was approved, as was renting the downstairs room to the Fallbrook Area Visitors Bureau. \$1,000 was allocated towards moving and transition expenses. The development of a transition plans was also approved. The meeting adjourned at 4:30 and the Board went next door to look at Suite A. Minutes by Mary Walker. Summary by Liz Yamaguchi.

SUMMARY OF APRIL CLUB MEETING OF THE FALLBROOK GEM & MINERAL SOCIETY

President, Gina Palculich welcomed everyone to the April Club meeting at 7:00 pm.

New members were introduced: Quentin Gonzales, Leticia Stamos, Mark Borger, Loralee Peterson, Juan Estrada, Tom Harsha, Eugene and Betty Ciancanelli, Jean Harsha.

Treasurer, Vanessa Jones reported that we made \$2,213 on mineral sales last month, and we still have some to sell. Art of the Book brought in \$134 and we got good publicity. B.J. showed the jewelry for a book (book thongs) made by the Beading Brigade and invited everyone to look at the Gift Shop items (including a book "Finding Faults") she had brought from the Shop. Vanessa pointed out the Financial Statement on the bulletin board and encouraged all to buy raffle tickets.

Mick Palculich gave an update on the vacant lot we own next door. We have moved our boundary to the middle of the lot and a Village Association group will probably buy the half next to Pico Street.

This gives us room for expansion. There will be a Workshop to discuss lot plans on May 2. Remember that all meetings are open to the general membership. The Board is working on the best usage for the Club and for Fallbrook.

Janice presented the new Membership Directory and requested members to pick theirs up.

Curves, who has been leasing the adjacent room, has moved out. The downstairs museum and fluorescent display and sales area will move into the room vacated by Curves. The Board has approved a letter of intent for the Fallbrook Visitors Bureau to rent the downstairs. These changes will give us more room for the museum and gift shop and we will be able to sell more to help offset the mortgage payments on our building and land.

Gina has talked with Erich, who is recovering from open heart surgery. He will be back for the meeting in June and announced the April 27 deadline for entries in the San Diego County Del Mar Fair. See the back table for application forms and information or look it up on the Web.

Alec Conley announced that he would be unable to do the Arts in the Park for FGMS this year and asked for volunteers. He and Garth provide mineral related activities for kids and specimens for them to touch and learn about. Liz Yamaguchi volunteered. She will find others.

Mary, VP, asked for donations for a large cut stone (25.3 carats) for the museum. It is being sold by the owner of the Cryogenie Mine and would be great for our museum. Value is \$2,500. Pledges are fine. She has collected about half. For the

Avocado Festival coming up on the 22nd FGMS will have a many tabled booth in front of the museum for mineral sales and to sell raffle tickets for the Fall Festival. Jewelry sales will be in the Gift Shop. For a children's activity we will have geode cracking (we are buying Alice Law's machine). We are also having a rummage Sale in the newly empty room next door (we'll move the shop and the Collections after the Avocado Festival). Kerith has done a wonderful job getting raffle prizes with a gold theme for our golden Anniversary. This year we aim for sales of \$2,500. Sign-up sheets for volunteers were sent around the room.

Field trip Chair, Matt Boeck, announced the MSSC San Andreas Fault Field Trip for Saturday, May 12, led by Janet Gordon. Sign-up ends May 5 but it would be best to sign up tonight. He reported on last month's trip to Dos Cabezas. Everyone got good material. The Himalaya trip is full (April 29 – a tailing dig). Matt is also investigating the Archeology and Paleontology Center near Hemet for a possible trip.

John Watson introduced David Lynn, an astronomer who almost became a geologist. He drove along the San Andreas fault beginning near the border with Mexico, and has written a book with directions for following the fault until it leaves California near Bodega Bay. He showed slides of his journey and described the best places to see geological formations like sag ponds and the different kinds of faults and troughs. Learn more at <http://www.thulescientific.com/san-andreas-fault-map.html>.

Announcements

SAN ANDREAS FAULT FIELD TRIP REMINDER

Those wishing to attend the Saturday, May 12, 2007, San Andreas fault field trip are reminded to make reservations with the leader, Janet Gordon, by May 5. You may contact her at 626-441-6715 or JGGordon@pacbell.net. Please include MSSC in the subject line if you use e-mail. Details about the trip are in the April Lithosphere.



Ridge of San Andreas fault gouge uplifted in the 1857 earthquake near Big Pines, California. Janet Gordon photo.

WIRE WRAP CLASS

Bonnie Parsley will be offering a wire wrap class on May 19th from 10:00 A.M. until 1:00 P.M. Five students will be accepted. The cost is \$35.00 each. This will include the wire and one cabochon. The following tools and supplies are recommended. You can buy inexpensive tools at Harbor Freight in Escondido. Bonnie will have a few pin vises, polishing cloths, and sets of dowels for sale.

Tools

The wire artist uses many special tools for jewelry making. A basic set would include:

1. Flat nose pliers
2. Chain nose pliers
3. Round nose pliers
4. Wire cutters
5. Pin vise for twisting wire
6. Small pen knife

Other Materials

1. Narrow masking tape
2. Scotch tape
3. 6 in. Ruler
4. Small cloth tape measurer
5. Fine point permanent marking pen
6. Cleaning & polishing cloth
7. Dowels (a variety of sizes)
8. Magnifying Visor

CAPISTRANO VALLEY SILENT AUCTION

The Capistrano Valley Rock & Mineral Club about their Silent Auction that will be held Wednesday, May 16th at 7:30 pm. at: Multi-Purpose Room, Community Center 100 North Calle

Seville (Ave. Del Mar at Seville), San Clemente CA

FGMS AVOCADO FESTIVAL A SUCCESS!!!!

THANK YOU to all of the hard working volunteers who helped make the Avocado Festival a great success for FGMS! The preliminary numbers indicate that we doubled (yes, you read correctly: doubled) what we grossed over the previous year: \$3,346.50 vs around \$1,600.00 in 2006.

It was a banner event for FGMS! We moved geode cracking to the street level and kept the kids (of all ages) enthralled. We had a much larger booth than last year and filled it with great minerals, fossils and gift items from the gift shop. (And it was decorated with banners & gold balloons to signal our 50th anniversary.) Raffle prizes were on display and we were selling tickets earlier than ever. The museum had a constant stream of visitors – many who were finding out about us for the first time – and many who said they would be back! The Tourmaline (Meeting) Room had lots of people marveling at the great displays and the touchy-feely minerals & fossils. There was a bustling rummage sale in Suite A (soon to be the new location for the Museum and Gift Shop). We gave away stacks of mineral magazines. And all in all, everyone was having fun!

And that is all due to all of the time and effort put in by our volunteers. In particular I would like to thank: Elizabeth (“BJ”) Cheatham for tirelessly calling people and rounding up volunteers, as well as organizing the Gift Shop; Janice Bricker

for devoting hours to the Rummage Sale; Kerith Graeber for putting up great displays and handling the Raffle tickets; “The Geode Crew” (Mick, Bill, Jim, Dave, Matt, et al) who cracked geodes for hours on end, non-stop; Claudia Watson for photographing the kids watching the “Geode Crew”; Vanessa Jones for taking care of all the money; Mike Evans for organizing Mineral & Fossil sales – and take the time to find specific minerals in the back room for our customers; Gina Palculich for keep us all organized and focused; Oscar Warren for making us those great banners; Garth, BJ & Vanessa for staying with me until the wee hours the night before to take care of the last minute details; Garth Bricker for the touchy-feely display; Liz Yamaguchi for being the rock in the office while everything & everybody swirled around; the set-up and tear-down crew; and many, many others: Lea Barton, John & Linda Frey, Gina Rawson, Jan Stromsoe, Dave LaMarr, Diane Tjepkes, Don & Bonnie Paisley, Cal Graeber, Gail & Jim Kerry, Anne Ondraka, Francine Jampeter, Frederick Rumsey, John Watson, Dick Mayer, Bill Hollingsworth, Matt Boecke, Jim Walker, Mick Palculich, Dave Mitchell and countless others. If I have left you out, it was inadvertent and I apologize ... Thank you, thank you, thank you one and all! Take a great big bow!

Much thanks to all,

Mary Fong/Walker
*FGMS Vice President & Avocado Festival
Coordinator*

NEWS & NOTES FROM THE CFMS FOR APRIL 2007

This month, let's turn to a topic of immediate relevance given the upcoming CFMS Show & Convention this June sponsored by the Palmdale Gem & Mineral Club at the Antelope Valley Fairgrounds in Lancaster. Please encourage junior members who may be able to attend to enter a display, competitive or not. Displaying at a regional or national federation show is always a unique opportunity. If junior members haven't yet signed up, there's still time. Forms for entering displays are available for quick-and-easy downloading at the web site, www.palmdalegems.org. You can also call (661) 916-9479 for show info, but don't delay! Exhibit entry deadlines for displays are May 20.

Why encourage your club's kids not just to attend but also display? A fun part of collecting and the lapidary arts is sharing what we've found or made. We get to "show off" and also learn from others, getting advice, sharing tips, and just generally forging bonds of friendship and networks of like-minded individuals. Jim Brace-Thompson, Junior Activities Chair states that he often get phone calls or emails from people who have seen his fossil displays at local shows, and it's resulted in trading specimens, sharing field trip localities, and building friendships.

But creating an effective display involves more than getting a glass-fronted box and throwing in a bunch of rocks. The

junior program leader should obtain a copy of the AFMS Uniform Rules, read through it, and then hold a seminar with your club's kids to go over the basics of building an effective display. Such a seminar should be as hand-on as possible. Bring a variety of gem, mineral, fossil, or lapidary specimens in various shapes and sizes. Place a display case front-and-center, and then vividly illustrate display techniques (for instance, show the difference that lighting can make, show how specimens can get lost against a "busy" background of plaid versus how they can be highlighted against a neutral background like beige or eggshell white). You might also supply kids with a photocopied "tip list" of do's and don'ts of displaying (e.g., use neutral linings; strive for balance; include neat, clear labels that are precise, concise, and large enough to read; make effective use of lighting; etc.)

Two new programs in VHS, DVD and CD-ROM format have been added to the CFMS Program Library. Both programs were winners in the American Federation of Mineralogical Societies 2006 Program Competition. And both were produced by members of the Heart of Wisconsin Gem & Mineral Society.

"German Agates," a 36 minute program, was produced by Doug Moore with narration by John Heusinkveld. A truly professional program, it describes agates found in four different locations in central and southern Germany; and of course includes scenes of Idar-Oberstein and the Mosel River Valley. The "German Agates" program can be ordered as VHS-132, DVD-22, and CD-ROM- 7.

"Those Fabulous Thundereggs, Part III," a 27 minute program, was produced

by Doug Moore and Lee Kabat with narration by Susan Moore. It is a dazzling follow-up to their previous two programs. Although it focuses on Oregon Thundereggs, it does include a few descriptions of eggs found in New Mexico, California and Washington. "Those Fabulous Thundereggs, Part III" programs can be ordered as VHS-133, DVD-23, CD-ROM-8.

In June look for other new programs to be added on "Lake Superior Agates, Geology of Caves and Caverns, Exploring Art Clay Silver, Antarctica - A Frozen Laboratory, and Mineral Collecting Around Quartzsite and within the Los Angeles Area."

To place a program order between May 11 and June 15 contact Colleen McGann (colleen.mcgann@hds.com); the Gisslers are off to Greece.

The Bureau of Land Management will conduct scoping meetings in Central California to gather input on issues to be addressed in the Carrizo Plain National Monument draft Resource Management Plan and Environmental Impact Statement. The meetings will be held in cooperation with the Monument Advisory Committee, and BLM's monument managing partners, The Nature Conservancy and the California Department of Fish and Game. "Developing the management plan offers both the BLM and the community a unique opportunity to produce a comprehensive long-range plan – one that will address current needs and guide us into the future," said Patty Gradek, acting manager for the BLM Bakersfield Field Office.

Public scoping meetings will be held:

April 24 at the San Luis Obispo Library, 995 Palm St . The library is less

than one mile east of Highway 101 off the Osos exit. The meeting will begin at 5:30 p.m. and finish at 7:30 p.m.

May 1 at the BLM Bakersfield Field Office, 3801 Pegasus Drive . The office is approximately one mile east of Highway 99 off the Porterville/Sequoia exit turn-off on Highway 65. The meeting will begin at 5:30 p.m. and finish at 7:30 p.m.

May 5 at the California Valley Community Services District building on Soda Lake Road . The center is located approximately three miles south of Highway 58 adjacent to the California Valley Fire Station 42. This meeting is being held in conjunction with a Carrizo Monument Advisory Committee meeting. The planning effort will be discussed (with time for public scoping input) from 10 a.m. to noon. Lunch will be available for \$8. The MAC meeting will then continue from 1 p.m. to 5 p.m. focusing on other agenda topics related to the national monument.

Written scoping comments should be sent by June 12 to: Monument Manager Johna Hurl, Carrizo Plain National Monument , Bakersfield Field Office, 3801 Pegasus Drive , Bakersfield , Calif. 93308 .

BLM held a series of scoping meetings in 2002 when the planning process was initiated. Comments submitted during that process will be considered with comments received in the current process. If you previously submitted comments, you may provide additional comments or clarifications of those previously made. Individuals who plan to attend and need special assistance such as sign language interpretation or other reasonable accommodations should contact Johna Hurl at (661) 391-6093.

Garth Bricker,

FGMS Member and Museum Curator

May 2007



**THE RED
CLOUD
MINE.**

I'd get a chance to go to the mines east of the Red Cloud and look for minerals. One was the Padre Kino or Dives mine. You found it by going past

the Red Cloud and taking the first dirt road east just past a sharp turn and head up. You pass a cement foundation with a road going south and up which is usually strewn with rocks and impassable. That leads to the Princess mine. Going straight you make a left turn and continue parallel to the bottom of a hill. You see a mine to the east and head up to it. This is the Dives (Padre Kino) where you will find a cut going into the side of the hill. On the left hand side near the end of the cut you will find where people have cut into the bank. This is where the little white flat hex mineral, Wickenburgite, is found along with steep pyramidal wulfenite. This is a micro mineral person's delight. It's plentiful. I found an almost round wulfenite there. There were so many little faces that it appeared to be round. I have it but I can't find it any more. The small wulfenites

were steeply pyramidal and bright and shiny.

The government some years ago demanded that you turn in a paper telling them what work you had done on your claim. It had to be worth one hundred dollars per claim but now you just have to pay \$100 dollars, which destroyed countless mines. People paid the 100 dollars and didn't do any physical work so the roads weren't kept up and storms washed out the roads and left tons of boulders so you couldn't get past. People would do their assessment work with a bulldozer and the road would be passable but not any more.

We'd come back down the rough dirt road from the Dives mine and come to the cement pad again and turn left up the hill if it had been bulldozed or you walked up. Thank goodness it was open for quite a number of years because driving was much shorter. We'd come to the top of the hill and turn right and down a little and come to the Princess mine which was on the right in the side of a hill. It went in and came out the other side with a little squirming. There was a passage to the right that had the pretty vanadinite that Doug Hott and his friend dug out and sold at the Red Cloud along with wulfenite. It was pretty stuff. I just hadn't dug there and found it.

Driving on down the four wheel drive road and to the right following a dry water course which was just a low area between hills you came to a natural cave on the left. A friend, Burris Short, had been there before us and had found an old canvas bank bag with the name of a Nevada mine, the Bullfrog mine, of Nye County. This mine lasted four years and the gold was in a green rock. Burris speculated that bandits had robbed the wagon carrying the gold and taken the money to the east of the Red Cloud and divided the money up, buried the canvas bag in this cave and high tailed it out of the area. Some years later I went to Burris' house near the border of Calif. and Nevada and got some things for our museum. One of the items was the Bullfrog bank bag with the name prominently marked on the side. This has all the earmarks of a true great story.

On the way down and up a little is a mine that is just a wide opening leading down into the mine was a very smooth slickenside roof caused by a fault where the top slid against the bottom leaving a smooth, ground up layer of rock that got caught between the moving parts. It is just hard, pulverized rock. This sliding and grinding action opened up a path for lead and silver laden water to migrate up and leave lead and silver in this area as it solidified. These fluids found weak or soft spots in the surrounding rock and filled these spots up with fluid that became the crystals. These weak spots or voids would allow crystals to grow to be found millions of years later by rock hounds.

No wulfenite was found in this decline which ended in about 30 feet. There doesn't seem to be a reason to have dug

this area out except that it was a fault like the Red Cloud.

Going on down and turning to the right you see an old fashioned engine with a big fly wheel of an old one lung engine that went chug-a-chug-a-chug and then caught its breath and did it over again. These were one cylinder engines. You gave the flywheel a hard downward push and the spark plug ignited the big cylinder that gave a mighty shove to continue the flywheel going. It was such a heavy wheel that it wanted to keep going but needed the cylinder to keep it going. It was manufactured around the turn of the century. Tractors used this engine along with harvesting machines that required power to do something or move the machine along. This was the Hamburg mine with the one lung machine at the top of a steep incline to drag up the ore. There was a side entrance lower down and farther back which would lead you back up through the mine to the main entrance. This was a special mine due to the large amount of vanadinite crystals covering about 15 feet of vertical distance ending just above the crawl hole leading out at the bottom.

Dave Shannon and I worked this mine at the same period and tried to get as much out as possible before the other finished off the available crystals. The crystals were nice solid reddish hexagonal crystals up to 3/8 inch and covering whole blocks of rock meandering through the blocks. Blocks came together leaving spaces for the crystals to grow. This area produced many flats of crystals after repeated visits. About this time the Red Cloud was shut down due to renewed work by the owner and I had to find somewhere else to work.

This work started about 1980. The last work was about 1940.

Before the road up to the Princess mine was turned into a rock pile I would drive on past the Princess and come to a little valley with mines along the right hand side that I always wanted to go down into but didn't. Going left after the Princess I came to what I call the Tin Can mine. There was a big area of discarded canned food containers that were produced near the start of the tin can canning process because all the seams were soldered very crudely with big blobs of solder. This was very crude work and they looked like Boy Scouts had opened them with their scout knives. I've seen cans that were soldered a little later than the beginning but these were by far the crudest. The mine was interesting. I found two sticks of dynamite

stamped with the date, 1938. They were as light as a feather, all the chemicals had evaporated. I still have these but don't dare display them at shows because someone might think they were still full of explosives. This mine has little crystals of red wulfenite like the Red Cloud and the Pure Potential.

For some yeas after mining??? started around 1980 none of us could go to the Red Cloud mine to dig. This lasted for a number of years and the work there abruptly stopped. They had bought a mill from Colorado and hauled it to the Red Cloud. They brought in lots of old junk and dumped it there south of the mine. They built a lab for testing the ore, a cookhouse, a small cabin, a water holding dam and brought up water from the bottom of the mine through a big plastic pipe.

WEST COAST GEM & MINERAL SHOW

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They put two old buses with no under pinnings on the ground for some reason. They stayed empty.

Doug Hott built a hen house east of his place at the mine, which was the cook house for the miners. Doug was hired by the owner after the miners left. The miners weren't paid at the end so they released the

brake on the winch which hauled up ore from the mine. The ore bucket went down at a very rapid rate of speed burning up the large motor.

Bobcat and bees next. Send me your stories of the Red Cloud. Garthbricker@roadrunner.com

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 Consolidated 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		

June

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 Grab Bags 1 - 4	2 Board Meeting 10:00 - 12:30
3	4	5	6	7 Beading Brigade 10:00	8 Grab Bags 1 - 4 Hot Summer Nights	9 Work Party 9:00 - 1:00 Pot Luck Lunch 1:00
10	11	12	13	14 Beading Brigade 10:00 Regular Meeting 7:00	15 Grab Bags 1 - 4	16
17	18	19	20	21 Beading Brigade 10:00	22 Grab Bags 1 - 4 Hot Summer Nights	23
24	25	26	27	28	29	30 Field Trip to be arranged.
						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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Deadline: The deadline for all submitted material is the 20th of the month prior to publication. Allow extra time if line drawings or photographs are submitted. **Editor: Patricia Hartman**, PO Box 1390, Bonsall, CA 92003. Email address: patricia@hitekdesigns.com

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Lithosphere

Fallbrook Gem and Mineral Society

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