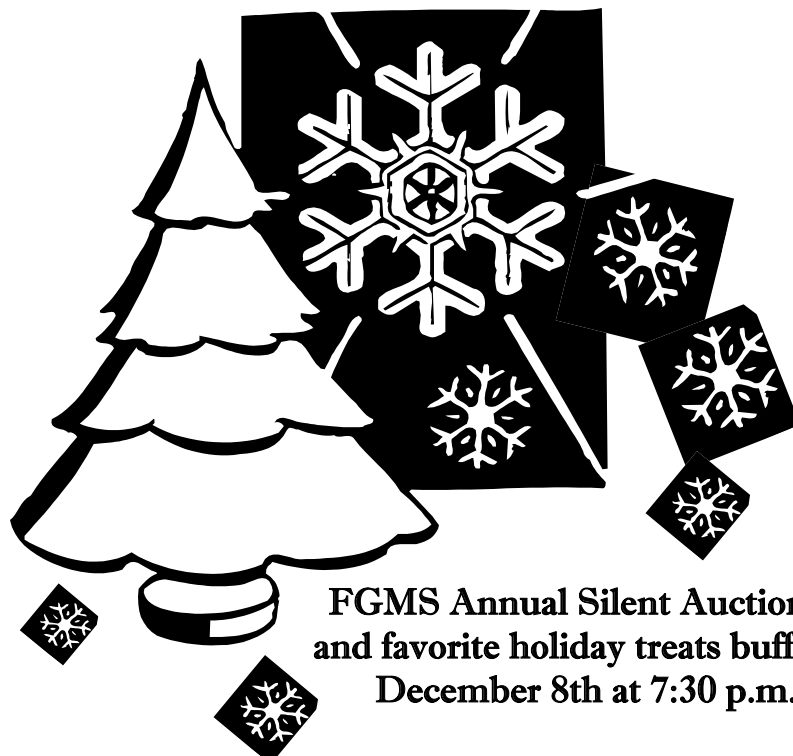


Lithosphere

Volume XIII, Number 10

Fallbrook, California



Fallbrook Gem and Mineral Society, Inc.



December 2005

Fallbrook Gem and Mineral Society, Inc.
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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

Half-page, vertical 2.25"x7" = \$60 for 10 months, or \$7.00 per issue.

Quarter-page horizontal 3.5"x2.25" = \$30 for 10 months, or \$3.50 per issue.

Eighth-page horizontal 1.25"x4.5" = \$15 for 10 months, or \$1.75 per issue.

All display advertising must be paid for in advance. All 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 20th 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 is limited to text only. Classified ads will be placed on the classified ad page and run until notification is received from advertiser to cancel ad, or at the editor's discretion based on space available. Editor reserves the right to edit all classified ads to fit the space available.

Contact the editor Sally Larsen for more information at 661-861-9102 or slarsen2@bak.rr.com. Or write to the editor at 3020 N. Inyo St., Bakersfield, CA 93305.

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Lithosphere

December 2005

December 8th Meeting

FGMS Silent Auction Night December 8th

This year's silent auction promises to be the best ever. Co-chairman of the auction, Erich Kern has been busy cleaning minerals, and Mike Evans has been busy selecting the best of the best for your bids. Vanessa Jones, is the co-chair, and helping is Jase Pollard

Among the prized items is a piece of rutillated quartz,



Erich Kern photo

Silent Auction item galena, sphalerite with calcite.



clear cabbing rough, which Garth Bricker estimates is worth around \$200. Some of these top specimens were found by volunteers during workdays as they moved the FGMS rock pile from Rocky Crest.

There will be an election of officers for 2006. Members are asked to bring a dessert dish, candy, cookies or appetizer. The meeting will begin at 7:30 p.m. at 123 W. Alvarado Street in Fallbrook, call 760-728-1130 for information.

NEW MEMBERS: The FGMS welcomes the following new members **Scott Maylen**, San Diego; **John Garsow**, Murrieta; **John Vilona**, Fallbrook; **Thorsten Strom**, Carlsbad; **Charles Harden**, Murrieta; **Tom Somers** and **Mary Somers**, Fallbrook; **John & Linda Stimson**, Assoc. members from Tustin.

FGMS Club Calendar

December 2005

First Saturday: Board meets at 10:00 a.m. at 123 W. Alvarado St.

Second Saturday: Work party 10 a.m., 123 W. Alvarado St.

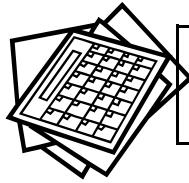
Dec. 8: FGMS annual Silent Auction and meeting at 7:30 p.m. at 123 W. Alvarado St.

Dec. 10: Open House at Jewel Tunnel Imports, see page 10 for details.

Tues., Thurs., Fri.: Museum at 123 W. Alvarado open 11 a.m.-3 p.m.

Painters Wanted on January 14th

FGMS will start the New Year off with a fresh coat of paint in the auditorium. There will be a paint party on January 14, and another day of getting ready to paint on January 10.



FGMS Event Calendar 2005

February Tucson Show Display 10-13th.	March Rummage Sale, 5th.	April Avocado Festival 17th. Arts in the Park 24th.	May 49er Frolic 22nd.	June FGMS Pie Night-Silent Auction 9th SD CO. Fair 10th-30th Hot Summer Nights, 24th
July/Aug. SD CO. Fair 7/1-7/5 Hot Summer Nights, Chili Cook off 26th.	September	October Fall Festival of Gems 2nd.	November Rummage Sale Nov. 12 Alvarado Museum	December Christmas Parade, 3rd. Meeting, Silent Auction Dec. 8th.

November Meeting Summary

Elizabeth Yamaguchi secretary

President, Gina Palculich, apologized for having the rummage sale items displayed around the room. The compensation was that those who wished were able to buy after the meeting. Laura Coleman introduced guests, **Matt Boeck** and **Tom Rondeau**. Vanessa Jones described our finances. Erich Kern reported the Nominating Committee's candidates. Anne Ondraka is recommended by the Committee for Director Four and Lea Barton for Director Three. There were no nominations from the floor. Dick Mayer moved to accept the candidates presented and all voted in favor. Election will be held at the Dec. 8th meeting, and election results will be published in the January *Lithosphere*. Gina described the labor of five work parties that had cleaned out the containers at Rocky Crest making them ready to be removed. We will move everything out of the Historical Society building next year. Grading on our back area will begin on Monday. A painting party will be held here on Friday November 25 (the day after Thanks-


Continued on page 10

Costa Mesa, CA - Spring
WEST COAST GEM & MINERAL SHOW
Holiday Inn - Costa Mesa • Bristol Plaza • 3131 S. Bristol St.
"Just south of 405 Fwy at Bristol St."

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Garth's World

*Garth Bricker FGMS Member and
Museum Curator*

It seems like everything at the two museums is on the move. We have had a number of work parties and I forgot to include Erich Kern as a participant in last months report. We have had a lot of people working long hours to clean out the containers. The mass of rock went to Henry Vogt's back yard, 30 tons. A lot of this came from the wire rings full of rock. Henry and his son, Sonny, used their road grading equipment to lift and dump the rock into their dump truck.

Henry and I were in Fallbrook High School at the same time, and we both wound up at the FGMS Society about 1960. We had both gone out rock hunting on the same day north of town over looking the Santa Margarita River. Wandering back and forth with our eyes to the ground we still noticed each other. We finally crossed paths and could see clearly that we knew each other from high school. That led to 10 years of going rock hunting together with our two boys each. The Red Cloud wulfenite mine and the rutile diggings near Bishop saw us with our boys. Now you know who Henry is.

He is going to remove the containers also.

We still have many boxes and things at the old museum on Rocky Crest to store somewhere.

Continuing our marathon work, we are in back of our Alvarado museum leveling out the back 19 x 56 feet of dirt. Sonny was on the skip loader ripping, smoothing out, and hauling dirt, and Henry was directing the work.

Another very important person, a transplant from New Jersey, Dick Mayer, watched and gave advice to Sonny because his job was to get the leveled job ready for pouring cement and putting up the stacked block wall next to our neighbors, the Palomar Counseling Service. We have had discussions about their water runoff coming down through our east side of the building. Since they are adding on to their building I think the new rules apply about not letting your water run off onto your neighbor's property.

The stackable cement wall will be three feet high and will be finished Nov. 22 and 23. Come and help because Dick will be going back to New Jersey for a

wedding. I know this will be too late but we have other important projects coming up.

Dick installed the roof drain at the spot where the roof was lower than the roof around it and the water sat in a big puddle. The water in this puddle will run out above the ceiling tile and below the real ceiling and go out the north wall. Everyone is baffled about where the drip is coming from since the roof is very new. The roofer has been here twice trying to patch and prevent the leak.

MINERAL TRIVIA: (To everybody but me). Last month the Great Editor in the clouds saw my writing on how to get new to science minerals characterized and named and said to himself, it's time one of Garth's new minerals got a name. Three days ago I received a fax from Tony Kamph, Curator of Minerals at the Los Angeles County Museum. He wanted to tell me that a mineral I had found at least 25 years ago was now given the name of ansermetite.

My mineral had been found again in the Southern Alps of Switzerland and named by a team of Swiss scientists. I might be related to one named Joel Brugger. Brugger is the name of the Brickers after they left Switzerland and arrived in America.

I had just been telling the readers of the *Lithosphere* last

month that it is difficult to get a new mineral named because you first have to know it is not already named. You can't, but a professional mineralogist can by using his x-ray and other instruments to give him the inside story. Before x-ray in the 1800's they studied wooden figures cut into the shape of minerals and inferred what must be inside to give the crystal its shape.

You have to have a professional who is willing to look at your mineral and if he doesn't know you, you will probably have a much harder time getting his attention. The professionals are busy people. I hope I said that Gene Foord took an interest in my minerals because I had been gathering micro minerals at the Himalaya mine for years and asked him to identify them. He was part owner of the mine, which didn't hurt my cause at all. Most of the minerals I sent him were easy for him to identify except for the rare malayaite being the first time found in the USA. This got him excited. I gave him three new to science minerals after that and other interesting ones from the Himalayan mine. BUT, they were all too tiny even for the scientists to characterize.

Leaving, 'How you get your foot in the door,' and going back to the new mineral ansermetite, quite a few years back I had been working at the Hale Creek in site

Continued on page 8

Bancroft Pledges \$10,000

Sally Larsen editor

Peter Bancroft has pledged \$10,000 to be applied to the FGMS mortgage on the condition that another member pledges the same or greater amount. His letter stating his pledge is printed below.

November 4, '05

*To: Bd. Of Directors
Fallbrook Gem & Mineral
Society*

*Subject: F.G.M.S. mortgage
debt*

*As of this date, I hereby
pledge \$10,000.00 for our mort-
gage. I shall make this amount
immediately available to
F.G.M.S. when a similar or
greater amount is pledged by a
Society member, or a friend of the
Society, and it becomes available
to our Society.*

*All good wishes,
Peter Bancroft*

Society Announces 2006 Grant

John Watson FGMS

The Board of Directors granted \$1,000 to support a Mineralogical Study Tour for two distinguished Russian mineralogists. **Igor Pekov, D. Sc.** and his wife **Anna.**

Tony Nikischer of Excalibur Minerals and the Hudson Institute are joint sponsors of the tour, and **FGMS is the lead sponsor.** Both the FGMS and Hudson can take contributions to support this study tour. These will be tax-deductible if earmarked for the Tour. The Watsons, Kerith Graeber and the Kerns have made donations. More is needed, both in cash and in-kind donations of transport and accommodations.

The Pekovs will begin their tour with the Tucson shows in February and return to Moscow in late February. Pekov is the leading authority on the minerals of **Kola Peninsula** and is the author of "Lovosero Massif" as well as the lead author in the current *Mineral Record* on the Palitra pegmatite. They and other Russians will be at our February meeting, and several presentations may be available.

The itinerary for the Pekovs after Tucson includes the LA County Museum, Caltech, a local mine and perhaps the rare earth mine at Mountain Pass. They will stop in Arkansas for a tour of Magnet Cove. Magnet Cove has many similarities to the Lovosero Massif. On the east coast with Tony Nikischer, they will visit the Smithsonian and American Museums. Research grants are a part of the Society's commitment to the broadening of knowledge in mineralogy and geology.

Summaries from page 3

giving) to get the auditorium ready for the Rocky Crest display cases and new storage where the display cases are now. Mike Evans talked about minerals donated for sale. The money from sales of minerals goes into a special fund to buy specimens for our museum. Mike announced that he has arranged with Jewel Tunnel Imports for sales to be at wholesale for FGMS members at their December 10 Open House in Baldwin Park. Garth announced a change from the Field Trip date in the *Lithosphere*. The trip to the Hauser residence is November 20. Meet here at 11:00 a.m. We will view the Hauser collection and there will be petrified wood for sale.

Clay Zava gave a very enjoyable illustrated talk on how gem cutting inspires him. At the raffle, Dick Mayer won the morganite specimen from the Elizabeth R Mine donated by Cal Graeber.

November Board Meeting Summary

Elizabeth Yamaguchi secretary

Of the \$41,833.17 in our accounts, \$16,462.65 is currently available. Money remaining from various grants for specific projects is \$10,250. All back taxes are paid (\$1,607) and the fee of more than \$5,000 was waived by Richard Levering, our accountant.

The work of emptying the containers at Rocky Crest is nearly complete thanks to many hours of work by 14 volunteers. Gina has informed the Historical Society that our museum there is closed and we will move next year. Signs will be posted directing visitors to the Alvarado St. Museum, where we will be open Thursdays, Fridays and Saturdays.

Projects at Alvarado Museum include paving the back, auditorium shelves, and shelves along the walkway. A major exhibit is planned for the Tourmaline Pocket and Kerith's framed tourmaline postage stamp display. Josie Scripps' big boulder will be placed with the ore cart in front of the new patio. Estimated moving costs are \$1,500 (Eckert).

The survey of our two lots was presented. Liz Yamaguchi and Joe Ondraka were appointed FGMS representative and alternate on the Board of FCDC, the organization that is buying half the new lot.

Endow San Diego, a marketing and promotional campaign to get the public interested in donating money for endowments, has been approved by our attorney. Pete Bancroft represents us in this nonprofit partnership with the San Diego Foundation. When a donation comes to us earmarked for endowment, they will help us manage it.

We paid \$492 in insurance this month for our share in the Commu-

Continued on page 12

locality in Trinity Co. near the Mad River described in a past issue of the *Lithosphere*. I collected inesite, which is a manganese mineral like the mineral rhodochrosite. I picked up everything from two to three hundred pound boulders full of inesite to microscopic minerals. I liked them all and brought them home. One of the microscopic minerals was a purplish cauliflower looking mineral.

I couldn't tell what any of the micros were, or if they were different, so when I got back I sent the unknowns to Tony Kamph who I met through the Friends of Minerals and at shows and conferences. I asked if he could tell me what my micros were. One was witherite BUT ONE WAS,—BINGO— A NEW MINERAL, and my first new mineral.

Tony took it to The Smithsonian after about five years of working on it with no success. The professionals at the Smithsonian said that it being probably a new mica and having a slick, perfect cleavage said they couldn't get a polished surface. "Take it back," they said so Tony brought it back from Washington D.C. and gave it back to me but he kept the research data on it. This he e-mailed to me three days ago. He sent the new Swiss abstract on the new mineral and the SEM of my mineral taken about 25 years ago and a photo of my mineral blown up many, many times. The mineral is platy and red. WOW! For new minerals the key words are, Have Patience.

Collections Received

John Watson FGMS

The Museum has been the beneficiary of several collections recently. In terms of the number of pieces and appraised value, the donation by **Martin Zinn**, the mineral show entrepreneur, (now relocated to the Albuquerque area) is the largest. He has sold his collection within the last six months and you will see them with various dealers. We were fortunate to get a slice of this large and choice collection based on Marty's generosity and the initiative of the **Graebers**. Prominent gold miner and dealer, **Doug Wallace** of Texas, arranged for donations from two of his clients and friends. **Carol Tomlinson of Palm Desert** donated two collections, finished jewelry and faceted gemstones. She and her late husband collected this material over many years. **John Maxwell of Kerrville, Texas** donated a collection of polished spheres and eggs, as well as two stunning gold specimens. The collection was put together by John and his late wife Marta. In addition, members **John and Claudia Watson** delivered the first increment of donated specimens, consisting of study, collections, and display pieces.

**NEWS & NOTES
FROM THE CFMS
Dec. 2005**

John Fry Director

Bob Fitzpatrick has been asked to stay on as Field Trip - South Chairman for year 2006. This year he will be taking on a Co-chairman whose name is Thomas Hess, he is a member of the Yucaipa Club and leader of the Die Hard Rock Hounds. Thomas will be leading the field trips to some of the famous pegmatite mines in Riverside and San Diego Counties, and Bob will be leading the trips to the desert areas of San Bernardino, Riverside & Imperial Counties. Both Bob & Thomas are volunteers who love setting up field trips for others to enjoy. It takes a lot of time to plan and coordinate them and also attend to families and jobs. They would appreciate anyone who has the time to give them a hand so they can make the field trips even better.

Preparations are well underway for the 2006 Zzyzx edition. If you need an application form please contact me or go the CFMS website and download one (www.cfmsinc.org) Anyone who is interested please apply early. They are limited to about 60 people and it fills up fast, and the only recourse is to establish a waiting list. The program will again feature Tom Burchard,

Lapidary; Margaret Kalaczyk, Soft Stone Carving; Lois Allmen & Mary Ann Anderson, Silver Fabrication; Dale Nichols, Wire Wrap; Francis Pedneau, Field Trips. It has not yet been decided whether to have a class on Polymer Clay or Precious Metal Clay. As always, good food and lot's of it. All this will take place March 19 through 26, 2006.

Each club receives a letter each year asking it to join the California State Mining and Mineral Museum Association. In exchange for \$1 per member. Club members receive free admission to the museum and a 10% discount in the museum shop.

The money raised by the Association through memberships and sales in the museum shop is given to the museum staff to spend on items that State Parks can't afford. The Association gives the museum about \$14,000.

The museum uses this money to purchase materials for educational programs. The museum also uses money provided by the Association to purchase specimens for the collection. Some of the specimens paid for by the Association in the last 5 years include: Two Trona specimens from Owen Lake, Inyo County; a thenardite pseudomorph after halite specimen from Searles Lake, Trona and a topazolite on ripidolite specimen from Yellow Cat Mine, New Idria District, San Benito County.

Cinnabar, an Ancient Chinese Remedy

By Rock Currier



Editor's Note: Rock Currier is a collector and wholesale mineral dealer and has Jewel Tunnel Imports in Baldwin Hills. He has written several pieces related to collecting and minerals. He has been kind enough to allow his first person account of his encounter with cinnabar and Chinese medicine to appear in the Lithosphere.

When I first went to China one of the things I wanted to get were specimens of cinnabar, and I found them, lots of them, but only crystals on matrix. Only rarely could I find a loose crystal. At first I thought it was because the Chinese took all the single crystals and glued them back on matrix, which was common. Then I saw a strange little double sided 'Richer' mount kind of box, and under the little glass window was a pavement of small rectangular cinnabar cleavages. Some boxes had smaller cleavages than others, and the larger the cleavages the more expensive the box. They were not cheap, about \$100 depending on the size of the cleavages.

These little cinnabar cleavages were used in the practice of traditional Chinese medicine. I was told you put a single cleavage in tea and then drink the tea. When the cleavage lost its nice red color then the 'medicine' was used up, and you needed to put in a nice new red cleavage fragment. This medicine has apparently been used for hundreds of years for heart problems.

I guess that the solubility of the cinnabar is really low, or the harmful effects of mercury poisoning would have long since been noticed. I also learned that cinnabar has a really good cleavage, something that I had not observed from the few crystals I had previously seen. These cleavages and their use in traditional Chinese medicine is another reason that you don't often see single cinnabar crystals for sale.

Field Trip News December 2005

**FGMS members and guests are invited to an open house at
Jewel Tunnel Imports on Saturday, Dec., 10 a.m. to 4 p.m.**

13100 Spring St., Baldwin Park, CA 91706, 626-814-2257

Check out the web site at jeweltunnel.com

Refreshments will be served.

Truth and Some Consequences #4

Jon Spunaugle AFMS conservation/legislation chairman

Last month (September) I finally found time to visit some forest areas near my home outside of Portland, Oregon. I stopped at a point of interest that I had always wanted to visit. As I started to park my car I noticed a sign that informed me that the parking area was a "Day Use Fee Parking Area" with a modest \$5.00 parking fee. There was a supply of envelopes for putting the fee in a secured collection box. I was a little surprised about the fee, but noticed that all the other cars in the parking area were in compliance. I got my wallet out and found I didn't have anything smaller than a \$20.00 bill. The road to the area was narrow and did not have room for parking on the side of the road, so we started to fill out the envelope to sacrifice the \$20.00. As we were finishing the envelope someone noticed that a Golden Age Pass or Golden Eagle Pass would suffice for the \$ 5.00 Fee. So the afternoon was saved as was my \$20.00 bill, by my Golden Age Passport which is good for life and cost me only \$10.00. Later in the month I stopped at a State area and was able to use my pass again to avoid paying another required use fee. The lessons to be learned are several. 1. Fees for use of certain pub-

Continued on page 12

Dec.-Jan. Show Calendar

- 3 — TUCSON, ARIZONA:** 2nd annual sale; Tucson Gem & Mineral Society; TGMS Clubhouse, 3727 E. Blackledge.
- 3-4 — ORANGEVALE, CALIFORNIA:** 42nd annual show; American River Gem & Mineral Society; Orangevale Grange Hall, 5807 Walnut Ave
- 9-11 — COSTA MESA, CALIFORNIA:** Show; Gem Faire; Orange County Fairgrounds/Bldg. 10, 88 Fair Dr.
- 16-18 — SAN DIEGO, CALIFORNIA:** Show; Gem Faire; Sheraton Hotel Mission Valley, 2nd floor, 1433 Camino del Rio S.
- 6-8 — SANTA ROSA, CALIFORNIA:** Gem show; Gem Faire Inc.; Sonoma County Fairgrounds, 1350 Bennett Valley Rd.
- 13-14 — GLOBE, ARIZONA:** 49th annual show; Gila County Gem & Mineral; Gila County Fairgrounds.
- 13-15 — DEL MAR, CALIFORNIA:** Gem show; Gem Faire Inc.; Del Mar Fairgrounds, 2260 Jimmy Durante Blvd.
- 13-15 — PHOENIX, ARIZONA:** Annual show, "Arizona Rockfest and Earth Science Fair" Mineralogical Society of Arizona; Tempe Diablo Stadium, I-10 exit 153.

CLASSIFIED ADS

BUY—SELL—TRADE—WANTED—GIVEAWAYS



WANTED: We are refocusing our collection and need some fine display as well as locality specimens of California, Nevada and Utah minerals. Especially interested in obtaining New Melones axinite and benitoite which displays the trigonal habit and good color. Have a lot of specimens to trade or sell as well. Call Watson 760-723-6539 or email at geospace@pacbell.net.

SALE: Softball size geodes (some hollow) & brazilian agate-- 50 cents a lb. Call Tony in Vista at 760- 724-0338.

Something to Sell? Trade? Giveaway? Announce? Place a FREE ad in the classified section. Contact the editor Sally Larsen at slarsen2@bak.rr.com, or write to 3020 N. Inyo Street, Bakersfield, CA 93305, or call 661-861-9102.

Summaries from page 7

nity Parking Lot. To make it safer to attend our evening Club meetings, the Board approved installing a Dusk-to-Dawn light on the telephone pole across Alvarado St. from the museum.

Pete Bancroft was thanked for his pledge of \$10,000, available when a similar amount is pledged by a Society member or friend (see page 6 for Pete's letter). John Watson's request for a grant of \$1,500 for Dr. Igor Pekhov's USA Tour was granted; of the total, \$500 will come from next year's scholarship fund and John donated \$500.

Henry and Sonny Vogt were made honorary members. in recognition of their many contributions.

The museum was open during the Art of the Book Festival for writers' workshops. We had more than forty visitors who spent \$160. Patricia Hartman, webmaster, requested news and photos for website.

Garth Bricker, Volunteers for Minerals treasurer, presented a list of the 2004—'05 donations to FGMS from the Volunteers. They also paid the overage on the TOT patio grant. These were accepted with thanks.

AFMS from page 11

lic owned areas are a reality, already. 2. Beware, access to certain National Forest Areas may require you to have exact change for any fees required. 3. A Golden Age or Golden Eagle Pass is a good investment if you are going to be visiting Federal and, perhaps, State land. If you don't have one you might want to get one and keep in your wallet or purse.

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 7:30 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 the corner of Rocky Crest Road and Hill Avenue in Fallbrook. Rocky Crest Museum hours are 1-4 p.m. Thursdays and Sundays, and by appointment with our curator. Museum at Alvarado is open Tues. and Thurs., 11 a.m. to 3 p.m. 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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Exchanges: Free reciprocal exchanges for the bulletins of other gem and mineral societies are welcomed. **Please send all exchange bulletins to the Editor.**

Disclaimer: The opinions and conclusions expressed in *Lithosphere* are those of the authors and do not necessarily represent those of the Officers, Editor, or members of the Society.

Contributions: Submissions (articles, letters, notes, announcements, photographs, etc.) are **actively** solicited from FGMS members. Submissions from non-members may be included at the discretion of the Editor. Copyrighted material submitted for publication must be accompanied with a written release from the copyright holder. Original, personally-written articles will be published with a copyright notice in the author's name *if requested*; otherwise all submissions will be published without individual copyright. No anonymous submissions will be considered; however, the submitter's name may be withheld, or a pseudonym used, upon request. All material is subject to editing. Unless previously arranged, all submissions become the property of the Fallbrook Gem and Mineral Society. Send all submissions to the Editors.

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.

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Affiliations: California Federation of Mineralogical Societies and the American Federation of Mineralogical Societies.



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