

Lithosphere

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Fallbrook, California



Specimen from the fGMS Museum

Fallbrook Gem and Mineral Society, Inc.

February

2008



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Display Advertising rates for the *Lithosphere* a publication of the Fallbrook Gem and Mineral Society:

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

Cover photo from FGMS Museum Brochure. Guest Lecturer photo from M. Evans.

FGMS FEBRUARY 21ST AT 7:00PM

On Thursday, February 21, a week later than our normal meetings due to the Tucson Show, come join us for a special program, Journey to the Source: Paraiba-type Tourmaline from Mozambique delivered by Brendan Laurs, Editor of Gems and Gemology Journal. It will feature a look at the mines, culture and landscapes of this relatively new (2004) source of copper-bearing tourmaline. Included will be how the stones get from mine to market.



Brendan Laurs is editor of Gems & Gemology at GIA in Carlsbad. He is a gemologist and geologist specializing in the formation of colored gemstone deposits. Brendan developed an early

interest in geology while exploring the gem-bearing pegmatites of San Diego County. He obtained a B.S. degree in geology at U.C. Santa Barbara and an M.S. degree in geology from Oregon State University. He was an exploration geologist for colored gemstones (benitoite and red beryl) with Kennecott Exploration Co. before joining GIA in 1997. In 2006, he co-chaired GIA's first-ever Gemological Research Conference in San Diego.

*Respectfully submitted,
Michael T. Evans*

Refreshments: Gail Kerry

CALLING ALL VOLUNTEERS



FGMS has some outstanding opportunities available to members! Get involved with your club and contribute to its success by volunteering. Volunteers are currently being recruited for the following efforts:

(1) Beading - The Beading Brigade meets the 1st & 3rd Thursdays (10 am - 4 pm); no experience required; training, tools & beads provided. Come and join in the creative fun and fellowship! Jewelry and gift items are sold in the Museum Gift Shop, at street festivals and the San Diego County Fair. Call Elizabeth Cheatham at (760) 731-0436 to join.

(2) Processing Mineral Specimens - Learn how to prepare mineral specimens that FGMS sells at our meetings, the Museum Gift Shop, at street festivals and the San Diego County Fair. Mike Evans, FGMS Assistant Curator coordinates this effort. Call the FGMS Office at (760)728-1130 to sign up!

(3) Museum Gift Shop - Open every Thursday, Friday & Saturday, FGMS Museum Gift Shop is becoming a popular place for kids of all ages to enjoy the wonderful world of gems, minerals & fossils. It's also becoming known as a great place to shop for unusual and reasonably-priced gifts, from mineral specimens, books and decorator items to handcrafted, one-of-a-kind jewelry, made by the FGMS Beading Brigade. Join the fun! If you like to share your knowledge of minerals & gems, like selling unique merchandise & want to welcome visitors to the world of FGMS, then come and join the docents! We've got several specific dates on our monthly calendar available, or you can participate as a substitute/floater and work when your schedule permits. Call Elizabeth Cheatham at (760) 731-0436 for inquiries.

(4) Rock Inventory Sorting - FGMS currently has an enormous

inventory of rock/mineral material that requires sorting. Many hands are needed to complete this project! Whether you "know rocks" or just have a strong back to move material, come one, come all to the "rock party"! Call Don Parsley at (951)600-4890 to get onboard.

VOLUNTEERS REMINDER

When you volunteer for any FGMS effort, please remember to note your total hours worked in the Volunteers Datebook located in the office on top of the bookcase next to Janice Bricker's desk (first desk to your left entering the office). Keeping track of our volunteer hours is a critical component required when applying for many larger grants, therefore your efforts to accurately document your hours is important to FGMS' bottom line! Every month the amount of volunteer hours will be reported in the Lithosphere.



**VOLUNTEER HOURS FOR
JANUARY 2008: 397**

BOWERS MUSEUM FIELD TRIP

On Saturday, March 15th, a field trip is scheduled to the Bowers Museum in Santa Ana. A docent group tour has been arranged exclusively for FGMS at 1:00 pm to view The Michael Scott Collection exhibit,



GEMS! Colors of Light and Stone. Mr. Scott is the retired former president of Apple Computer. This collection is touted as the most important private gem collection in the United States, with few rivals in the world outside of the royal families. Dr. Peter Keller, president of Bowers Museum, a geologist and gemologist who curates the exhibit, has said, "GEMS! Colors of Light and Stone is the most important exhibition of colored gemstones, diamonds and gems as art ever shown in a U.S. museum." The exhibit includes most of the major gem species in every color and variety known, as well as very rare examples of little known color varieties such as green tanzanite and Paraiba tourmalines. It also includes cut collector stones, antique jewelry from the mid-19th to early 20th centuries, and spectacular gem carvings by renowned artists.

The Bowers Museum opens at 10:00 am and closes at 4:00 p.m. Those FGMS members interested in car pooling will meet in the parking lot across from the FGMS building at 9:00 am. Arriving prior to the docent tour will allow members to tour the museum's other exhibits and also have lunch. The Tangata restaurant is located in the museum's courtyard. Cost of admission is \$19.00, \$14.00 (seniors, 62+), with free parking.

Museum etiquette prohibits backpacks, parcels, large bags, umbrellas and briefcases inside the museum. Cameras are not allowed in the exhibit areas and food and beverages are prohibited inside the museum galleries. For further information see the web site, www.bowers.org. The Bowers Museum is located at 2002 North Main Street, Santa

Ana, CA, Phone (714)567-3600. To sign up for the tour, please call the FGMS Office at (760)728-1130 and also indicate if you'd be available to drive.

THE MISSING HUMAN ELEMENT IN MINERAL MUSEUM DISPLAYS

By Tony Nikischer

Excalibur Mineral Corp.

A recent visit to the Baseball Hall of Fame in Cooperstown, N.Y. reminded me of an observation about mineral museums here the U.S. that I never before had an opportunity to voice. Although this really isn't about baseball, some history might help frame the issue:

I grew up in the shadows of Yankee Stadium in the south Bronx, and as a kid I could hear the roar of the crowds there from my tenement roof. I avidly collected baseball cards in the 1950's, never quite forgiving my dear mother for her ambitious house cleaning of them the first year I went to sleep-away camp. Gone were the cards, comic books and other detritus of my sloppy room, and it probably contributed to my cooling fanaticism about the sport many years ago.

My two sons are only mildly interested in baseball. They have heard of Derek Jeter and Alex Rodriguez, but have no clue about Mickey Mantle, Ted Williams, Ty Cobb, Honus Wagner nor any other player who hasn't been in a television commercial or Yankee game in the last couple of years. Nonetheless, we dragged them along during a weekend get-away to Otsego Lake and Cooperstown, showing

them the Hall of Fame for the first time. They were amazed to learn that Baby Ruth candy bars were often thought to have a baseball link, but for the most part, they were singularly unimpressed with their visit. With no previous exposure or historical perspective, it was “just a bunch of stuff that belonged to dead guys they never heard of”. How sad.

On the other hand, my wife and I were impressed with the depth, personal histories and possessions of these sporting icons. And then it reminded me of some of my early visits to eastern European mineral museums, their sense of history, and in particular, their often poignant reminders and displays about individuals who contributed to their early growth and development of the science.

For example, the Humboldt Museum in (then) East Berlin had displays dedicated to individuals like Gustav Rose and M.H. Klaproth who were scientists, accomplished field collectors, as well as curators who helped the museum grow. Personal possessions of these individuals and some of their early scientific works and collected specimens were tastefully displayed, and with some judicious inquiry, the visitor’s journal signed by Archduke Stephan (stephanite) and other luminaries could be seen.

In the small town of Miskolc in Hungary, the wonderful Herman Otto Museum had a similar display with the eyeglasses, pipe, photographs and other personal belongings of its founding curator neatly arranged in one case as a means of introducing the general public to some of the museum’s important personalities and early history. I recollect

similar personal touches in many other European museums.

Sadly, it seems to me that in the U.S., with few exceptions, we are happy to name a wing for a wealthy donor, but we do not immortalize the scientists, curators or collectors that have contributed greatly to the organization’s founding or success. That personal touch, that human element, is lacking from most mineral museum displays, and I think it does a disservice to both the visitors and the absent honorees as well.

Like a baseball museum, a mineral museum won’t capture the imagination and interest of every attendee. However, I believe a human element adds history, perspective and tangible reality to an otherwise static display of inanimate “things”. Our hobby, our science, should have a suitable place for such personal items, and they should be judiciously shown along with the specimens themselves.

I recently obtained the original trimming hammer of Scott Williams that was given to David New in the 1960’s when he purchased the business that became Southwest Scientific. It is not ancient, perhaps dating from Scott’s earlier business in the late 1940’s, but it has some mineral-collecting historical appeal for me nonetheless. Where is Penfield’s blowpipe that he used to teach students at Yale? Who has the senior Dana’s field loupe? Where is Ed Over’s first prospecting pick? (Having been to the A.E. Seaman Museum, I know where Scott Turner’s Brunton compass is!) Wouldn’t it be neat to have a place for such things? Perhaps items like these already have good homes that can be publicized for all of us to

enjoy. Are there such repositories and lists of their holdings? Are there any museums out there willing to volunteer to undertake such a project? Comments and observations are welcomed!

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BUILDING FUND PROGRESS REPORT

On December's mortgage payment we paid additional principle of \$200.00.

THANKS TO DONATIONS

FROM:

Hugh Lawrence	\$100.00
Rosemary Carl	\$100.00

On January's mortgage payment we paid additional principle of \$760.00.

THANKS TO DONATIONS

FROM:

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GARTH'S WORLD

Garth Bricker, FGMS Member and Museum Curator January 2008



This is the outline of a talk on the Red Cloud mine around two o'clock, Sat. the 16th at the Convention Canter at the Tucson 2008 show.

family lived to be processed over seas. It was by far the easiest link to civilization.

5. Woods was gathered for the Gila's boiler and for the smelter at Norton's Landing four miles from the Red Cloud and the Black Rock mines. Piles of Red Cloud ore was at the landing and there was burnt coal or wood in wide areas. My slides still show where this place was because the mountains are still like they were in the 1881 photographs.

1. Clear small wulfenite. Show things not known before about the Red Cloud. The old entrance, Judge Silent, Mines around the Red Cloud, copper discoveries, the Colorado River, the bottom of the Red Cloud. There is so much to see and do there. I haven't seen and done it all yet.

2. Indians of the area with a dress of the times but retaining a southwest Indian head covering.

3. An Indian family at their dwelling during the Arizona Territory days. Dr. Stanley, the Red Cloud mine agent and his family were friends of the Indians that lived in the area. The Indians tried to find their young boy when he fell into the Colorado River

4. Paddle wheel river steamers went from Yuma up the Colorado River to service all the settlements and mines. They brought in people like the Stanleys, sent letters like the one Lettie Stanley wrote back to "All Home Folks", brought in mining tools and took the lead and silver from the smelter at Norton's Landing where Dr. Stanley and

6. An extremely interesting letter telling about a very dirty female miner and her child. Both died and the miners, in the middle of the night, were hastily hauling them in a wagon to get them buried in 125 degree heat.

7. Norton's Landing Smelter. Ore was hauled from the Red Cloud and Black Rock mines each down its own wash, which converged on the way to the Smelter. The lead, silver ingots were stacked by the horse waiting for the river steamer to carry them down to Yuma.

8. 1881, The mine superintendent of the Red Cloud mine and mounted to the left is Dr. Stanley. I didn't know these pictures I put onto slides existed until Carol Woolery tracked me down at a Fallbrook mineral show and invited me to see her Red Cloud gallery of mine and surrounding area photographs that she developed. I just couldn't believe these existed and that I'd find them.

9. Carol had wanted to go see where her great grand father had lived and worked at the Red Cloud. I took her soon afterwards so she could dig her own wulfenite. It was remarkable that these photos were ever taken in this hard to reach place and kept all these years to be handed down to Carol. This is almost an impossible coincidence.

10. This is at the intersection of the Black Rock Wash and the Red Cloud Rd. The ore was hauled from the Black Rock mine down the Black Rock wash to meet up with the ore coming down the Red Cloud wash heading to the smelter. A miner's home was carved into the bank with a hole in the ceiling for the smoke to get out.

11. On the road to and from the Red Cloud are Palo Verde trees with great thorns up and down their limbs but this might be to protect the beautiful yellow blossoms in spring. Later in the hot spring the Ironwood trees put on a great show of lavender blooms which I only got to see once along with the Palo Verde bloom because I stayed later in the spring.

12. Ocotillo bloom is equally outstanding. There is so much to see especially in winter and spring.

13. This is the Black Rock mine and if you don't turn right you will be driving on the Black Rock wash. There are some big boulders in the road so cars can't get down the wash now. You could walk the four miles. In the mine its self up to the late 1980's you could go in and then work your way down by climbing over boulders, around obstacles and come to an area with very slender, long vanadinite crystals that were very different from any where else in the district. This is now back filled.

14 This is the Black Rock today. minus all the mining activity in 1881,'

15 Slickensides. When one piece of mountain moves and the other half doesn't or moves in another direction, the land between is crushed. The land between these two moving parts gets crushed to a powder as in an earthquake. This broken land is a path for very hot material to move up towards the surface bring metals and a host of other molecules to form new minerals in this upward cooler area. Wulfenite's lead probably came up this way and met molybdenum and oxygen to form wulfenite. This is what formed the Red Cloud dike and put it where it is and erosion exposed the dike.

16 The old and first opening at the Red Cloud mine was under these timbers that were buried on the South end of the dike. Doug Hott, the caretaker, which had his private digging on the south end and where the richest part of the dike is. Some rock hounds uncovered drifts under the loose fractured rock on the dike at the south end and came to a very rich wulfenite area around 1980. I doubled my collection in one week down there after 20 years of digging all over the mine. This makes sense because the early miners would start down at the point of richest lead and silver showings. The old entrance was unknown until Doug Hott uncovered it about 1990. This area is so rich that this area just about has to be where Ed Over found his 2 inch crystals. I found a floater from the broken area above this dangerous area that slid down and hit me on the toe of my boot. I was pulling out handfuls of inch crystals but it looked so imminent to collapsing, I left the rest. My error. The next day Burris Short from Tule Lake, a yearly digger at the Red Cloud, came in to where I was and dug farther under the bank and out came a

3 inch wulfenite. The pocket had all etched crystals but who would turn down a 3 inch etched crystal of wulfenite.

17 Wayne Thompson in his teens at the Red Cloud. He said that he put in as many hours at the Red Cloud as I have. Years later he bought the mine and I worked on his crew during 1996 and 1997.

18 In 1980 Skip Szenics came from New Jersey. This was his life long dream to get to the Red Cloud to dig wulfenite. He was in love with the mine and nearly ended his life there by drilling under ground and breathing the exhaust. (personal communication). He was the one who wrote, "Wulfenite is Love" on the shack that stood near the mine until one very cold day someone tore the shack up for fire wood while I was down in the mine. I came up and there was no more shack.

19 Doug Hott following the old workings down on the south end of the dike and claimed he got a two inch crystal down there. This is the rich area. This forest of timbers is at the surface and goes a long way down following the dike at a steep angle.

20 Two Fallbrook boys are starting down into the mine at the modern opening to the north.

21 The owner decided to clean out the mine in the 80's when the price of silver went up. The price of silver must have gone down again because almost no new work was done. One nice thing done was all new ladders were put in. There used to be ladders in the early 60's but people would break out rock looking for wulfenite at the top of the old ladders and the rocks would roll down and brake up the ladders

so all that was left for some years was an old cable with some wires breaking and sticking out to stab you as you grab the cable. The dike is this steep the whole length of the dike from north to south.

Photographing long lengths of mine tunnels is done by waiting until night or being complete underground and then putting the camera on bulb where the shutter is open all the time and walking down the incline and flashing more as you get farther from the camera. The camera is on a tripod. You go shorter and shorter distances between flashes as you get farther away from the camera. It is a great technique to get eye catching photos in mines. I haven't seen it done before but more use should be made of it in mines.

22 This is the only photo that really shows the steepness of the mine. The camera was facing straight ahead and not down. Another good technique for mine photos.

To Be Continued in March Issue.

ANNOUNCEMENTS

NEW MEMBER

Charles H. Schultz
43933 Northgate Ave.
Temecula, CA 92592
(951)-676-7013

RUMMAGE SALE:

March 29th will be another rummage sale. Please save your stuff and bring to the museum Tues. through Fri. of that week. PLEASE bring your things clean, no broken items. If you wouldn't give it to a friend don't give it to us. Thank you!

DUES

Dues are due by March 1st, Single \$25.00 and couple \$45.00, child \$6.00.

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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Exchanges: Free reciprocal exchanges for the bulletins of other gem and mineral societies are welcomed. Please send all exchange bulletins to the FGMS Office.

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. Editor: Patricia Hartman, PO Box 1390, Bonsall, CA 92003. Email address: patricia@hitekdesigns.com

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

Lithosphere

Fallbrook Gem and Mineral Society

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