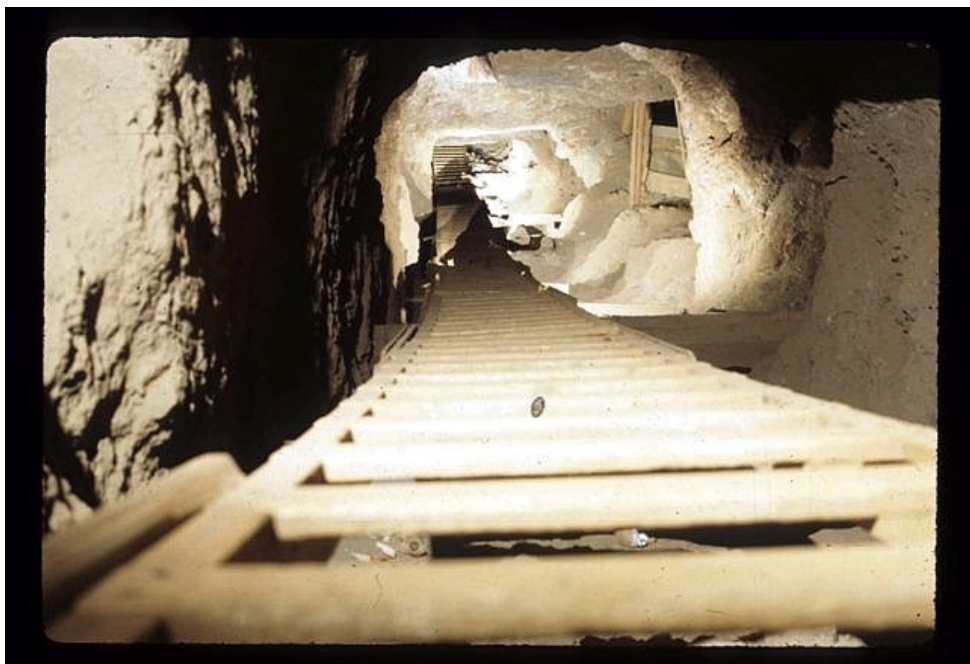


Lithosphere

Volume XV, Number 1

Fallbrook, California



LADDER INTO RED CLOUD MINE

Fallbrook Gem and Mineral Society, Inc.

January

2007



Fallbrook Gem and Mineral Society, Inc.

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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.

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Cover Photo courtesy of Garth Bricker
Inside photos courtesy of Garth Bricker

FGMS January 11th Meeting at 7:00p

GREEN FIRE OF COLOMBIA

Emerald mining and the market today

A Presentation by Marisa Zachovay of the Gemological Institute of America

On Thursday evening, January 11 at 123 Alvarado St. (Museum), Fallbrook we look forward to greeting 2007 with a program about emeralds from Marisa Zachovay, an on-campus Instructor for the GIA in Carlsbad, CA. Many of you will remember her fine program she gave us last year on cultured pearls and I promise you that she has an equally informative program for us this time.

Recently she went to the Second International Mining Conference, held in Medellin, Colombia (which Colombian President Uribe attended the opening of) to represent GIA as a speaker on emeralds and diamonds. She also visited Bogota during her stay where she visited cutters at Plazoleta Rosario and merchandisers of rough emeralds at Avenida Jimenez. Her talk will cover the locations of mining, cutting and marketing of Colombian emeralds, the current political climate and its effect on the emerald trade as well as

some of the challenges facing this industry. There will also be scenes from some of the emerald mines and, of course, there will be a glimpse at the culture of this land to set the proper mood.

Marisa, besides being a Graduate Gemologist (GIA), is a Certified Goldsmith (Swiss Art and Design school), Certified Gemologist (American Gem Society) and a member of the Gem & Mineral Council of the Los Angeles County Museum of Natural History.

She has worked in the Jewelry trade for the past 15 years but interest was sparked at a young age. In Switzerland she worked as a technical assistant at the Gubelin Lab and was also the head of appraisals and assistant buyer for Edigem Ltd., a group of retail stores owned by Gubelin. In 2002 she joined the staff at GIA as an instructor of gemology. An article by her, "What is the Price of an Emerald?" can be found in Emeralds of the World, extralapis English No. 2: The Legendary Green Beryl.

*Michael T. Evans
Assistant Curator Fallbrook Gem & Mineral
Museum
Fallbrook Gem & Mineral Society, Inc.*

***The people bringing
cookies for January
are: Michael DiVerde,
Ronne Branson, and
Diane Tjepkes.***

DECEMBER 2, 2006 BOARD OF DIRECTORS MEETING SUMMARY OF THE FALLBROOK GEM & MINERAL SOCIETY

Erich reported that he and Laurie would not be on the Board in 2007. They are both open to being back in 2008 or 2009. Erich said he would continue to be a docent in the museum and will assist David LaMarr with maintenance.

Vanessa reported property taxes paid. The Auditorium has been alarmed using funds donated by the Rotary for security. She has sent a letter to John Stanley of Curves asking him to become current with his lease payments.

B.J. Cheatham, who was Chair of the Holiday Sundays, was unexpectedly called to Papua New Guinea on diplomatic business with her husband. However, before she left she had organized the event and appointed different members to be in charge of the various aspects. David LaMarr has been doing the Christmas decorations and lighting in the Museum, hall and Auditorium. Note his reindeer outside, pulling the mine car loaded with presents. He will also demonstrate cabbage on the Square and direct visitors to the Museum/Gift Shop and Boutique on December 3 and 10.

Claudia Watson designed a "Shop the Museum" card. 1000 were printed for \$323.25, leaving \$1,402.78 in the TOT grant for John Watson's fund raising brochure. The Watson's shopping card was distributed at the Visitor's Bureau

meeting and members analyzed it as an example of interim advertising for their group until a more detailed brochure can be developed.

John's "Fellow Member" letter and the pledge support contract were sent out to all members along with the new bylaws.

Garth reported working with two groups of visitors, ten students on November 21st and five Scouts on the 28th.

Gina recommended that our library operate as a research library and not permit books to be checked out. She is looking at a budget of \$1,000 for the library for the first year and would like to sell books for which we have duplicates and apply the



Holiday Decorations

money to the Library budget.

Vince Ross will make a presentation on the boundary adjustment in January, 2007.

Gina has asked Field Trip Chair, Matt Boeck, to work on a calendar of field trips.

The Collections Committee met twice in the last month and will meet this afternoon to discuss accessioning. Currently the Committee is composed of

Garth, Cal, Mike, and President Gina. Liz enters data into the computer and takes notes. John Watson and Jim Walker will be asked to serve on this Committee also.

Garth reported that all paperwork had been returned to Marty Zinn. Members of the Collection Committee cannot be appraisers of collections donated to FGMS. Zinn will employ someone not on our Collection Committee.

Gina is contacting Fallbrook Historical Society president, Jack Story, to let him know that we will have everything out of the museum room at Rocky Crest by the end of the year. We will turn off the alarm and bring the telephone number here to use for a fax number. The Work Party for the move will be Saturday December 9 at 9 am.

SUMMARY OF DECEMBER 14, 2006 CLUB MEETING

(Annual Meeting of the Society)

President Gina Palculich welcomed everyone and thanked them for their support.

Secretary, Liz Yamaguchi, presented her End-of-Year Report by listing the duties of her office. All current records are located in the Office and may be reviewed by members at any time.

Lyn Huettl, assistant to Treasurer, Vanessa Jones, reported that we made \$500 each day the Holiday Sundays Boutique was open. Advertising cost \$350.

Erich Kern, Facilities Director, described all the work that had been done in the building's rear staging area: wall,

concrete pad, storage sheds, etc., and thanked Dick, Garth, Dave, Rick, Henry Vogt and all the others who worked on it and on other projects during the year.

Director for Development, Ann Ondraka, read reports and listed work done by her Committees: Grant Writing (Liz), Rummage Sales (Janice), Avocado and Fall Festivals (Board). Volunteers for Minerals' Kerith and Cal Graeber were commended for their grab bag work, as was B.J. Cheatham for the Beading Brigade. Grab Bags are a significant source of income. John Watson described the Tourmaline Club contract that had been sent out and hoped that every member would participate and dig deep. Funds can be transferred from IRA's this year without penalty. \$20,000 is needed for the rest of this year to occupy and operate a full facility museum in our leased room next door. The shopping card is in anticipation of a fund raising brochure that will be published next year.

Lea Barton, former Director of Education, reported for Director, B.J. Cheatham, who is in Papua New Guinea. For Adult Education, Erich Kern provided a mineral cleaning class. Garth taught 300+ children during tours of the museum, and he also took materials and demonstrated them to school classes. B.J. has scheduled docents and is working on a docent training manual. Gina is preparing a calendar for docent sign-ups. Historian Lyn Huettl has updated previous years' activities and maintained this year's. In the library, which will be a research library, magazines are nearly inventoried and book processing will begin after the first of the year. John announced the establishment of the Donald W. Layton

scholarship for a high school graduating Senior who will be taking science in college. He described the Board's endorsement of the Papua New Guinea project, a commercial relationship.

Janice Bricker, Membership Director, reported fifteen new members this year. Historian, Lyn, has done an excellent job. Our Web Site is being worked on. Janice asked all to sign up to supply refreshments one night in 2007.

Curator Garth reported that the primary job this year was to move from Rocky Crest and it is nearly completed. Now we must organize things here. Gina added that we have received much help, including from Southwest Boulder.

John reported that the Collection Committee is now inventorying everything in the Safe Room, making us ready to accession our museum Collection. Some items of those not designated for accessioning or the Educational Collection will be for sale, and will be displayed in January and sold in March or April (bring your credit cards). It has not yet been decided how the proceeds will be apportioned – acquisition fund or building fund or ?.

Liz reported on people who had done outstanding volunteer work in 2005 and 2006 and named David LaMarr to received the Gladys Hall Volunteer of the Year Award.

John Watson announced the nominees for President (Gina Palculich), Vice President (Mary Fong/Walker), Secretary (Liz Yamaguchi), Treasurer (Vanessa Jones), Director of Facilities (Dave LaMarr) and Director of Education (Elizabeth [B.J.] Cheatham). He invited nominations from the floor three times

and, there being none, the vote was held. All were elected. John then held the swearing in and Gina presented the schedule:

January 6, 10:00 am – New and old Board members meet

January 11, 7:00 pm – Regular FGMS Club Meeting

January 13, 9:00 am to 1:00 pm – Work Party; Pot Luck begins at 1:00 pm.

Anne Ondraka described the year's work on the new bylaws. The bylaws committee reviewed the bylaws of other organizations and took the best of each to produce the new FGMS bylaws, approved by the Board and by our attorney. Items that were not needed from our current bylaws will become part of a new manual of operations that is being developed. A copy of the new bylaws was mailed to each member for review. The motion to approve the new bylaws was made by Dick Mayer and the vote of approval was unanimous.

Mike Evans announced the speaker calendar for 2007.

The meeting adjourned and refreshments and the Silent Auction began.

**FGMS dues are due now
and will be delinquent
March 1.**

**In order to be in the
directory they must be
in by March 1. Single
renewal is \$25.00 and
Dual renewal is \$45.00.**

GARTH'S WORLD

Garth Bricker,

FGMS Member and Museum Curator

January 2007



I really enjoyed the White Mountains digging rutile at the Champion Mine, which I wrote about in my last Lithosphere series.

The most fun and the longest and the greatest adventure

occurred at the famous Red Cloud mine near Yuma, Arizona. What brought this to mind started with the clean up of the old museum under the Historical Society museum recently. A group of volunteers went over there and cleaned out the book cases containing the major mineral magazines stored by year and month wonderfully cataloged by Richard Jefts.

We had 5, eight foot shelves filled with magazines with only a few issues missing. These all had to be boxed and carried to the new museum where they were unpacked, stacked and checked against what we already had as a first copy. These second copies are stored in the auditorium and in the hall as give away magazines now.

We cleaned the old museum room and left more boxes stored in the workroom next door for future cleaning. We have told the History Society we would be out of the rooms by the end of December.

We've got the big room for them to move into but we can't get the smaller room cleaned out until we find a place to put the rest of the stored rock and equipment.

This brings me to the Red Cloud. I've been going through the magazines looking for articles that explain minerals and mines that we have specimens for in the museum. I want to find a way to coordinate the two for everyone's education. One of the magazines had my name in it as being one of a very small group of Red Cloud diggers to uncover very small but choice pockets of wulfenite. This is paraphrasing Bob Jone's words in the Rock and Gem Magazine of October 1996 in his article titled, THE RED CLOUD MINE HEATS UP AGAIN. Bob is a prolific writer for



Josie Scripps at Red Cloud mine

mineral magazines that we all subscribe to and read.

Bob calls this mine a fantasy mine because every rock hound in the world wants to come to the Red Cloud and fantasizes about digging out 2 inch wulfenites like Ed Over found in 1938. Bob gives a rundown on the mine and thinks wulfenite first started showing up in 1880 when the mine started operation.



Szenecs at Red Cloud mine

I started working the mine very timidly in about 1960 after hearing about it at the FGMS meetings and having Bryant Harris talk about a trip to the Red Cloud. I didn't know anything about the mine or wulfenite but wanted to go. And by the way, that's how field trips were planned back then. Josie Scripps went on the trip. She was responsible for the FGMS getting into grab bag making and saving \$50,000 to outfit the Historical Museum's basement into our first museum. Our first museum was literally paid for by grab bags. I'll probably get to a lot of the adventures at the Red Cloud along with telling about my 1996-97 working for Wayne Thompson.

Wayne is a dealer in Arizona who knew of the pending sale of the Red Cloud mine and wanted to buy it with the help of investors. I was told at the time that he put up his house against a loan to help buy the mine. He purchased a huge excavator that had to be walked (driven in on its steel track) from Martinez Lake to the mine. It takes a couple hours to drive in by truck. There was also a small bulldozer there. Graham Sutton was the paid mine general supervisor and Bob Neukum was the 10 ton truck driver. Together, the two built what I call the Red Cloud Hilton Hotel foundation pad with the excavated dirt and rock.

Wayne and group decided to open pit the mine. In 1880 the mine was already worked down on the fault leaving a 75 or 100 foot slanting rock wall on the west that at one time was the side of a hill. The Red Cloud fault went north and south and the work had to be done down dip and to the east deeper and deeper. The aim was go down as far as possible, hopefully, to the water table but the farther down they went the farther east they went because of the slope of the fault, which would take them to the east boundary of the property which wasn't that far away.

They were already down about 10 to 15 feet creating a little valley between the west rock face and the east that stretched out toward the road in from Martinez Lake.

Some time before Wayne started excavating Doug Hott, the caretaker, started making his own private hand dug excavation down to the rich area under the east bank. He said he had gotten out an inch and a half wulfenite and given it to a friend in Yuma to hold for him in case... We weren't allowed to go down because

he was the watchman and had certain privileges at the mine. He had made a little cart with wheels that ran on two by fours to pull out his rubble.

This area had old shafts going down but were caved and dangerous. I had dug a little way down in one of these and found miner's candle stubs from 1880 or very close to the beginning of mining. Along with the candle stubs was a hand made candle holder made from a heavy bent steel rod with candle wax clinging to the rod. You can see this in the Mineralogical Record, Arizona Issue, Vol. 11, May/June, page 151 showing a brilliantly red 2 inch wulfenite crystal on the cover. Also on page 151 is the candle holder with a rawhide braided rope, Chinese felt skull cap, and bandana and one of the used candles. These were one hundred years old when I found them in 1980.

In this same time frame Doug also started working the top of this trough or mined 1880's area and exposed the remains of the first shaft at the Red Cloud. This area of the dike was chosen because it had the most wulfenite and thus lead-silver and more shafts and tunnels than anywhere else in the mine. The top of this area was covered with rock and rubble, which was covering the timbers that outlined the first shaft. This is close to the east bank which is very unstable and broken up but holding its self together but the whole thing was undermined by the early miners. More about this later. Just think what they found.

One year I crawled down into this area looking carefully at the west wall above me because it was only held together by its own weight. It was only backfill from the 1880's early mining and could give away

at any time. I found a group of 1 inch etched wulfenites below the backfill and in that one week I doubled my collection of 30 years in that one spot. One of the etched crystals was an inch and a half but I never saw it because I gave up that hole. All I was getting were one inch etched crystals. Burris Short told me about going into that same hole after I did, finding the crystal and selling it to a dealer in Yuma for \$100

The south boundary of the eastern edge of the 1880's mining work ends today where Wayne stopped digging on the south end of the fault which is still undisturbed ground heading to the crane, parking area, Doug's mine buildings and beyond. What you see now exposed is a fault line slanting down to the east showing how far down the excavation progressed. I'd love a photo or slide of this line for my collection of images of the Red Cloud mine. What Doug turned up is new to the Red Cloud record really not known or in print before this.

I was out of the way but watching the excavator in 1996 dig down into the red dust near the north end of where the second entrance sat near the west rock face. This entrance was the one familiar to all Red Cloud diggers from my start about 1960. It's where we all went down into the mine. The excavator was reaching down about 10 feet bringing up load after load of crushed rock and dust. This was crushed after being mined about 1880 by some sort of rock breaking and crushing machinery right at the mine to extract the lead and silver. There was no sign of charcoal or burnt wood along with the crushed rock. I haven't seen any evidence of heat producing ground near the Red Cloud but there is no written report in the literature of

working the ore at the mine to extract the lead and silver but the evidence is there of milling if that's the right term. Norton's Landing and roasting the ore next.

Garth Bricker

THE GLADYS HALL VOLUNTEER OF THE YEAR AWARD INTRODUCTORY SPEECH

by Liz Yamaguchi

Who was Gladys Hall? I knew her personally. She was my baby-sitter when she was our neighbor in Southgate (near Los Angeles). When my family moved to Fallbrook in early 1930, Gladys spent summers with us until she married. She worked as a Court Recorder and retired to Fallbrook in the '60's. She built her home on land subdivided from my parents property, she joined the FGMS soon after my parents helped organize it, and she became good friends with Josie Scripps. She was an established greeter and keeper of the membership records. She volunteered until she died in 1997, and when she was gone the Society established this award to honor her memory. Many of our most active volunteers (including past presidents) have since been named "Volunteer of the Year."

When I received the award, I was embarrassed, because I felt that Erich Kern was the volunteer who had provided outstanding service to the Society in 2005, and therefore, he should have been the one recognized. Later I found out that he was second on the list of those considered.

Previous Volunteers of the Year get together to choose the new recipient and it is the job of the person who received it in the prior year to announce the winner. This year it was difficult to choose because there were so many members who have given outstanding service. However, the field was narrowed to three outstanding candidates.

First, one of our newest members, Lyn Huettl, has worked tirelessly, taking pictures, maintaining and adding to our historical records and providing support for Grab Bag makers, touring students, and field trips. She deserves a big hand for a tremendous volunteering job from a new member.

Candidate number two was Elizabeth (B.J.) Cheatham. She couldn't be with us tonight, being busy with her diplomat husband, Charles Cheatham, developing our interests in Papua New Guinea. Elizabeth began 2006 with her research and elegant display on Mozart for Fallbrook's Mozart Festival and she produced spectacular exhibits for each of the spring festivals. She worked to develop the Gift Shop with goods, displays and procedures. She won a "Best Exhibit" at the Del Mar Fair with her ammonite educational display (you can view it in the display case on the back wall). She began the Beading Brigade, an adult education fun and learning group that makes items to sell in the Gift Shop. We should all applaud B.J.'s work in furthering the objectives of FGMS.

My last candidate, David LaMarr, also couldn't be here – he is in New York this week. He helped finish our storage and staging area behind the building, and worked to get the heavy items moved over from Rocky Crest. Add to these his fine lapidary display in the Auditorium, and his presence and museum exhibits at the Art Campus opening and Holiday Sundays, and top it off with his unbelievable Christmas decorations, and you have the picture of another tireless volunteer. Whatever needs to be done, Dave sees it and does it without being asked.

I wish to thank all of our volunteers and I name David LaMarr to receive the Gladys Hall Volunteer of the Year Award for 2006.

WHAT IS A PHANTOM CRYSTAL?

A phantom crystal is actually a crystal within a crystal. The makeup of the phantom must be the same as one that encloses it. There may be more than one inside a single crystal. The usual explanation of phantoms is intermittent growth-growing for a while, then stopping. For a period the crystal is exposed and a very small amount of foreign matter (dust, etc.) fall on its surface.

The conditions then change and the crystal starts to grow again with the possibility of this happening several times. The result is a crystal that appears to have one or more crystals enclosed within it. Sometimes phantoms are oriented the

same as the enclosing crystal; at other times they are not. In clear crystals, such as quartz, the enclosing crystal appears shadowy and faint, and therefore we have the name Phantom. The difference between a phantom and inclusions is that the inclusions must be a different mineral species.

(from Rock Reader, 11/99, via Chip & Luck, 11/98 and High Country Gleanings, 5/05)

SO YOU THINK YOU HAVE JADE

If a small chip is knocked off at the end of the suspected rock, the freshly broken surface should not sparkle in the sun. If it sparkles or glitters, it is not jade.

If you can scratch it with a knife point, it is not jade.

It should be much heavier than a common rock of similar size.

Tap the specimen lightly with a point of your hammer. If a small moon-shaped fracture shows up, it may be agate or jasper, but not jade.

(from Rock Reader, 12/99, via SCFS newsletter, and High Country Gleamings newsletter, 5/2005)

Deadline for Lithosphere submissions is the 15th of each month. February submissions must be received by January 15th.

NEWS & NOTES FROM THE CFMS FOR JANUARY 2007

The California Coastal National Monument, established by Presidential proclamation on Jan. 11, 2000, includes more than 20,000 rocks, islands and pinnacles (totaling about 1,000 acres) off the California Coast. It does not include major islands, such as Santa Catalina, the other Channel Islands, the Farallon Islands or the Islands of San Francisco Bay. The monument protects "all unappropriated or unreserved lands and interest in lands owned or controlled by the United States in the form of rocks, islands, pinnacles and exposed reefs above mean high tide within 12 nautical miles of the shoreline of the State of California."

The proclamation directed the Secretary of the Interior, through the Bureau of Land Management, to manage the monument. Management focuses on the geologic formations and the habitat they provide for seabirds, pinnipeds (seals and sea lions) and plant life.

Extending from San Diego County to Del Norte County, these features have been in federal government ownership, administered by the BLM or its predecessor (the General Land Office) since the time of California statehood. Since 1983, the BLM has coordinated with the California Department of Fish and Game to manage these natural resources. DFG and California State Parks are now Core Managing Partners with the BLM in

administration of this national monument. Under terms of a Memorandum of Understanding, BLM, DFG and State Parks will work jointly, managing the monument to develop a greater understanding of its resources and to provide information to the public.

The BLM's coastal field offices (Arcata, Ukiah, Hollister, Bakersfield and Palm Springs/South Coast) will be key BLM contacts in monument management. Additionally, BLM and coastal communities will cooperate to establish Coastal Monument Gateway Communities, where the public can learn more about the national monument. For more information contact: Rick Hanks, Manager, California Coastal National Monument, 299 Foam Street, Monterey, CA 93940,(831) 372-6115 or Rick_Hanks@ca.blm.gov. Reprinted from the News.bytes, issue 257 11/21/06 - BLM California CA_News.bytes@ca.blm.gov

Note from John Martin chairman of P.L.A.C South: "I do not know what this will mean to collecting along our coastline. I will try to find out and publish my findings in a later Newsletter".

The National Rockhound and Lapidary Hall of Fame was founded in 1987 to recognize excellence in the earth sciences by inducting one or more persons each year in six categories: Minerals, Fossils, Metalcraft, Lapidary, Education and Tribute (Deceased). All of the inductees are experts in their fields. Many of them have published several books and most of them have been active in community service.

Housed at Murdo, SD, the Hall of Fame also features numerous exhibits, some by Hall of Fame inductees, of

wonderful exhibits of the bounty of the earth and the creativeness of our inductees. For more information about the Hall of Fame, including a list of all past inductees, visit.

The following individuals will be recognized for 2006.

Minerals - Dave Wilber

Known to many for his ability to build fantastic mineral collections for himself and others, he began collecting as a youngster when he was given a small box of specimens while on a family trip. Several years later he began purchasing specimens and then became a dealer - often trimming and cleaning and labeling his purchases himself. Always adding the best that he could afford, his collection was the feature of the AFMS Convention and Show in Anaheim, CA. Since then, he's shown portions of his collections at many shows across the country. His favorites are the gem crystals which he's collected for their esthetic appeal as well as their color, clarity and rarity.

Dave has acquired specimens by buying, trading and self-collecting. He especially favors morganite and tourmaline from the Pala area of California. Many of the specimens he's acquired over the years are now on display in the major museums across the country. He's always willing to help and advise new mineral collectors and encourages them to join local clubs.

Lapidary - Stephen Avery

A four-time Cutting Edge competition winner, Stephen Avery is an inventive contemporary cutter with roots in traditional faceting. He started his career as a diamond cutter.

He became entranced with the color of gem crystals and began experimenting with high quality tourmaline, garnet, amethyst and beryl. He soon learned that the ultimate brilliance of the stones required different faceting patterns from those used for traditional diamond cuts. He "invented" new designs such as Triopp, Quadopp, and Slash, but kept his facets flat and his cuts geometric. Avery uses traditional faceting machines. For colored stones he avoids rounds and ovals he used for diamonds. In addition to tourmaline, garnet, and amethyst he likes to work with sapphire, spinel, garnet and quartz.

Metalcraft - Verne McCullough

A North Dakota native, Verne McCullough worked in the gem rich states of Montana and Washington, but didn't discover lapidary and metalwork until he moved to California. After retiring in 1982, he devoted full time to all branches of lapidary and also to silver work becoming proficient in faceting, intarsia, and sphere making as well as silver fabrication.

He taught silver fabrication, casting and channel work for 20 years and built much of his own lapidary and metal working equipment.

Fossils - Clodis Hunt

An amateur fossil collector from Kansas, Clodis Hunt has discovered hundreds of Pleistocene fossils which he preserves, studies and shows to thousands of adults and kids at gem and mineral shows in Kansas and Missouri. The fossils represent many species: mastodon, mammoth, short face bear, horse, camel, peccary, bison, musk ox and more. The fossils are found not far from his home in an ancient river bed and its tributaries. He

often uses a flat bottom air boat on his collecting trips. He has donated many fine specimens to the University of Kansas and now has hopes of opening a museum of his own. He has given talks to Scouts, schools, and civic clubs as well as interested people he's come across on field trips.

Education - Clarence Ryan

Clarence Ryan is a faceter, cabochon cutter, silversmith and lapidary teacher. He has held classes during local and Federation shows as well as entering exhibits and taking part in demonstrations. He has made his own equipment available to those who wish to learn. He has provided equipment, stones and instructions to adults and children alike. Over the past twenty-five years, he has

enabled several hundred people to become familiar with lapidary art.

He organized and chaired a workshop committee for his club. The committee provides demonstrations and instructions for the use of club owned equipment. He's also taught classes in silver soldering and jewelry repair. Once finished one class, many students quickly enrol in another.

Tribute - William Kelly

Dedication, Dedication, Dedication are the words that come to mind when the Eugene Mineral Club members remember William "Bill" Kelly.

He took many geology classes during his years of living in California and continued his interest in learning throughout his life. After retiring he

MARTIN ZINN EXPOSITIONS, L.L.C.

2007 Shows

- **JAN. 27 - FEB. 10, 2007 ~ ARIZONA MINERAL & FOSSIL SHOW**
In 5 TUCSON Locations: QUALITY INN - Benson Hwy. • CLARION HOTEL
 - InnSuites Hotel • Ramada Ltd. • Mineral & Fossil Marketplace
- **APRIL 27 - 29, 2007 ~ COLORADO MINERAL & FOSSIL SHOW - Spring**
Holiday Inn - Denver Central, DENVER, CO
- **MAY 18 - 20, 2007 ~ WEST COAST GEM & MINERAL SHOW - Spring**
Holiday Inn - Costa Mesa, COSTA MESA, CA
- **AUG. 10 - 12, 2007 ~ EAST COAST GEM, MINERAL & FOSSIL SHOW**
Better Living Center, Eastern States Exposition, WEST SPRINGFIELD, MA
- **SEPT. 12 - 16, 2007 ~ COLORADO MINERAL & FOSSIL SHOW - Fall**
Holiday Inn - Denver Central, DENVER, CO
 - **SEPT. 14 - 16, 2007 ~ COLORADO FOSSIL EXPO**
Plaza Annex, Merchandise Mart, DENVER, CO
- **NOV. 9 - 11, 2007 ~ WEST COAST GEM & MINERAL SHOW - Fall**
Holiday Inn - Costa Mesa, COSTA MESA, CA

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moved back to his native Oregon and joined the Springfield Rock & Mineral Club and the Eugene Mineral Club in the 1980's. Although his interests centered around fossils and petrified wood, he always served as a club resource person for identifying minerals.

In 1983, Bill served on the AFMS Fossil Committee for rules changes and made the presentation to the AFMS Rules Committee at the NFMS/AFMS Convention in Spokane, WA. He also judged fossils and petrified wood at the show. He judged at shows throughout Oregon and the Northwest and was highly regarded for his expertise in Fossil and Petrified Wood identification. He entered displays, sometimes in competition, at eight to ten shows per year. He also had many special exhibits at these shows.

Many of his competitive displays earned him awards and trophies including three masters trophies from he NFMS! Whether putting in special displays at shows large and small throughout the Northwest, competing or judging, Bill Kelly shared his knowledge with rockhound friends everywhere. Bill also devoted countless hours to helping at the University of Oregon Museum of Natural History and the Willamette Science and Technology Center in Eugene, Oregon. In 1988, under the supervision of Dr. William Orr of the Dept. of Geology, University of Oregon, Bill spent many months and infinite patience preparing the fossilized specimen of a prehistoric turtle found near Coos Bay on the Oregon Coast. The turtle was displayed at the Eugene Mineral Club show in May, 1988. Bill Kelly represented the very best role model possible in the rockhounding hobby. He shared his

extensive knowledge of fossils and petrified woods and his many specimens over many years with thousands of people.

HOW TO MAKE A NOMINATION

Do you know of an individual who should be considered for induction into the National Rockhound and Lapidary Hall of Fame? If so, why not send in information about the person so he or she can be considered by the selection committee? Here's what you need to do:

- 1.. List the name, address and phone number of your nominee.
- 2.. Choose a Category: Minerals, Lapidary, Metalcraft, Fossil or Tribute (deceased).
- 3.. Include the name of a contact person their address and phone number.
- 4.. Include as much information as possible about the nominee and the reasons they should be inducted into the NR&L Hall of Fame.
- 5.. Mail to: Maxine M. Wilson, Curator, NRL Hall of Fame, HC74 Box 21, Murdo, SD 557559-9215 or e-mail .

Nominations may be made anytime. Balloting on the nominations will be in April of each year. If the nominations come in too late to be included in that year, it will be used the next year.

Reprinted from AFMS Newsletter December 2006-January 2007

ROCKHOUNDER

The following two articles are from the Rockhounder for Bulletin Exchange from Gem, Lapidary and Mineral Society of Montgomery Co., MD., Inc

SMASHING DISCOVERY

Another Pallasite, not the biggest meteorite ever found, but excitement can't be reigned in over latest find. Kiowa County - At 154 pounds, it wasn't the biggest meteorite ever found, not by a long shot.

But that didn't dim the celebration Monday for the contingent of archeologists and others on hand from the Houston Museum of Natural Science to dislodge the space rock from its Kiowa County resting spot for the last millennium or so.

"These guys are all giddy about it," said Steve Arnold, the meteorite hunter who helped locate the stony-iron specimen. Indeed, the scientists treated the rock with the care due a baby as they painstakingly unearthed it, placing the dirt that had enveloped the object into plastic bags for closer inspection later.

And when the time finally came Monday afternoon to extricate the 12 X 16 X 13-inch chunk from its roost about four feet under the ground, the cameras clicked, someone applauded and the smiles widened. "Oh, it's about to go on a trip again," said Carolyn Sumners, senior director of astronomy at the Houston museum.

The Texas contingent started trickling in last week, drawn by the abundance of meteorites in Kiowa County, site of the famous Brenham meteorite that fell 2,000 years ago, give or take a decade or two. But this wasn't any ordinary search for space rocks.

First, Arnold scouted for possible meteor sites using his oversized metal detector, which has helped him locate a

1,430 pounder and numerous other specimens here. Then last Friday, a planetary scientist from the NASA-funded Lunar Planetary Institute passed a more finely tuned device over the spots Arnold picked, something called a ground-penetrating radar, to see which ones held most promise.

Finally, the archeologists, paleontologists, geologists and other assembled experts zeroed in on the rural site where the 154 pounder was found, five miles west of Greensburg.

They dug a trench around the meteorite, taking note of the varied characteristics of the sediment at the location, finally wrapping the rock in foil for the trip to Houston, where it will face further scrutiny. Continued on Page 8

If it might seem like a lot of fuss, there's a good reason. Meteorite hunters typically dig at will to extricate space rocks, paying little to no heed to the dirt they scoop to get at the bounty. However, Barbara Wilson, another member of the Houston Museum of Natural Science contingent, said the point of the careful digging this go around was to see what clues the soil might yield about the rock.

As far as she knows, such care, documented by a cameraman on hand for the occasion, has never been taken when retrieving a meteorite.

"They want to get as much science out of it as they can and look for whatever the soil and rock might reveal," she said.

The rock will be put on display at the Houston Museum as part of a planned exhibit next year on comets, meteors and meteorites. The search to locate the rock, meanwhile, will be part of an exhibit at the museum's planetarium that will document

the science and technology necessary to explore the hidden nooks and crannies of the universe.

As for scientific insights, David Temple, a paleontologist at the Houston museum, said it's too early to tell with any certainty. However, the layering of soil indicates the meteorite is no more than 10,000 years old, he said, though dirt samples Photo by Travis Morisse will be examined for anything organic for possible use in pinning a more precise age on the rock. Other soil attributes might help in determining the speed of the rock when it fell and its trajectory.

Twelve other Kiowa County sites also scoured for meteorites, including one that had some dreaming of a humongous 10 X 15 foot specimen, yielded nothing. The site of what the scientists thought may have been the giant actually yielded a long, metal cable apparently used for a long-gone oil rig.

By Tim Vandenack

The Hutchinson (Kansas) News, October 17, 2006, used with permission and edited slightly.

Websites

San Diego Natural History Museum, presents a double-header FOR KIDS, the first is "Mineral Matters" at

<http://www.sdnhm.org/kids/mineral/s/index.html> where you will find How to identify minerals, Build a collection, Mineral FAQs, Grow your own crystals, and Mine Games. There are True-False and 10 question quizzes, and a word search. Every beginner starts out knowing Quartz and Calcite. They are about as

common as the "You Know" of our sports figures.

The other is "Dinosaur Dig" at <http://www.sdnhm.org/kids/dinosaur/index.html> which has Name that reptile, Finding Fossils, Dinosaur bytes, The mystery of the Ankylosaur, Jurassic Jumbler and Explore fossil mysteries. Educational as well, it has games, a slide show, and word search. Layers of rocks containing fossil remains are called beds. What should you do if you find a T. Rex sleeping in your bed? Sleep somewhere else! Some California regional minerals and fossils are featured. Have fun juniors (And seniors too).

41ST ANNUAL QUARTZSITE POW WOW GEM & MINERAL SHOW

**JAN 24 - 28, 2007 W-SUN
POW WOW FIELD TRIPS
HOSTED BY QUARTZSITE
ROADRUNNERS GEM &
MINERAL CLUB**

Wednesday, 1 12-Mile Agate, Fossils North
January 24 2 Dome Rock Alunite West
Thursday, 1 Stone Cabin Birdseye Rhyolite S.
January 25 2 Bouse Jasper, Agate North
Friday, 1 Blythe Limonite Cubes East
January 26 2 Bouse Jasper, Hematite North
Saturday, 1 Bouse Banded Rhyolite North
January 27 2 Stone Cabin Desert Roses South
Sunday, 1 Stone Cabin Birdseye Rhyolite South

January 28 2 Brenda * Jasper (club claim) East
<http://www.qiaaz.org/schedule.htm>

January

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4 Beading Brigade 10:00 Grab Bags 1:00 1:00	5	6 Board Meeting 10:00 – 2:00
7	8	9	10	11 Beading Brigade 10:00 Grab Bags 1:00 FGMS Meeting 7:00	12	13 Work Party 9:00 – 1:00 Pot Luck Lunch 1:00
14	15 Last day to submit for Lithosphere	16	17	18 Beading Brigade 10:00 Grab Bags 1:00	19	20
21	22 CINCH Meeting at FGMS 10:00	23	24	25 Beading Brigade 10:00 Grab Bags 1:00	26	27
28	29	30	31			

2007

February

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

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

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Lithosphere

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