

PRESIDENT'S MESSAGE



This year's show was our tenth and I think everyone should be proud. The cases were spectacular. The demonstrators were enlightening, informative and enchanting. The Spinning Wheel, Rock Table, Geode Cutters and Crafty Corner all out did themselves; and the food was outstanding. All the workers were exhausted!!!!

The crowds seemed a little small this year, which may have been due to the good weather. Everybody went to the mountains; but the effort put forth by all was phenomenal. My deepest heartfelt thanks to all.

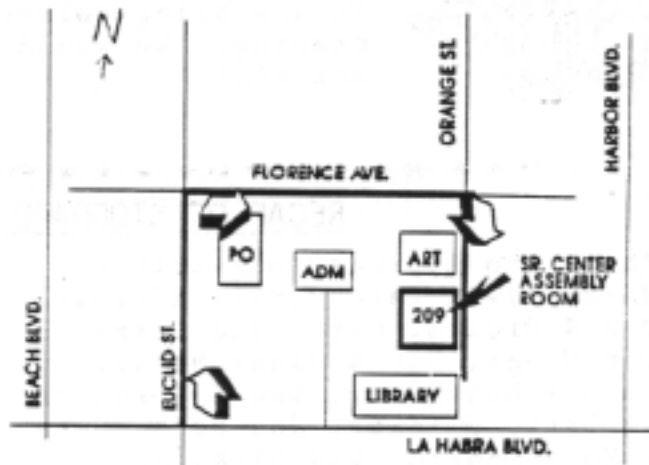
Don

APRIL MEETING AND PROGRAM

Date: April 11
Time: 7:30 p.m.
Place: La Habra Senior Center Assembly Room
Speaker: Francis Lau

Mr. Lau is a famous gemologist. His subject for the evening will be "Wise Buying of Diamonds and Other Precious Gemstones." His guidance and expertise will be a real help for those who feel a little uncertain when buying precious stones.

Loretta Inforzato



COMING ATTRACTIONS

NOC CLUB ACTIVITIES

Cab Making Classes in Walt Messemer's Garage, 7-10 p.m.	Mon. & Wed.
Regular Meeting in the Assembly Room, 7:30 p.m.	April 11
Field Trip to Rodman Mountains Area (see pg. 4)	April 14,15,16
Board Meeting in the Assembly Room, 7:30 p.m.	April 25

SHOWS AND EVENTS

Mojave Min. Soc. "Boron Rock Bonanza"	4/8,9
Boron HS; Camping, Field Trips, Tailgaters; Boron	
Antelope Valley & Palmdale G & M Clubs	4/22,23
Antelope Valley Fairgrounds, Lancaster	

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COMING ATTRACTIONS (Continued)

- The Searchers G&MS, Brookhurst Com. Center 5/6,7
2271 W. Crescent Ave. (at Brookhurst), Anaheim
- CFMS/Santa Clara Valley G&MS Show and Convention 6/23-25
Santa Clara Co. Fairgrounds, San Jose
- AFMS/NFMS/Idaho Gem Club Show and Convention 7/13-16
Boise Idaho Convention Center, Idaho

REFRESHMENTS

Trini Hermosillo and Ofelia Warthen will be bringing our refreshments for the April Regular Meeting.



Thanks Jane Livezey and Lee Hughes for bringing the delicious goodies to our March meeting.

Adele Huber

DISPLAYS



Please bring colored gem stones for our April meeting. We would like before and after faceted material.

Ginny Grafton

RECAP OF STODDARD WELLS FIELD TRIP

Those who attended our trip on March 17-19 were: Bill & Izzie, Don & Ofelia, Ginny and Jerry, Pat Maggs, Pat & Sandy Mogan, Joan & Bob Henry, Don & Loretta, Norberto Elicker, Joe Reed, Mike & Mary Maneth, and Nickolas Culolias (Warthen's grandson).

A wonderful sunny weekend was enjoyed by all. It seemed like a mini Quartzsite. There were many tailgate dealers, rockhounds and sightseers. Saturday trip to tri-color marble proved successful. Everyone found good pieces.

Bill and Izzie had to leave Saturday evening for a line-dancing engagement in Santa Fe Springs missing a great potluck. Then we sat around a camp fire and shared many stories of the day's events.

Five year old Nickolas had a great time looking for rocks and firewood. He also enjoyed buying rocks and made good friends with the dealers and Pat Maggs.

The Livezeys and Henrys went scouting for the Easter field trip to the Rodman Mountain area and brought back some exciting specimens.

Don Ogden and Norberto scouted to the top of the mountain looking for black jade. They found several good pieces.

Don, Ofelia and Nickolas went up the mountain Sunday morning looking for the black jade and found several good sized pieces ending the trip with some excitement.

Ofelia

RODMAN MOUNTAINS AREA - April 14, 15, 16, 1995

Our Easter field trip will be to the Rodman Mountains area. We had planned on going to the Amethyst digs but that has been turned into a wilderness area and has been posted. We can look for some Crystals near there, and we will be going to a Golden Jasper area that is open, and there is plenty for everyone to pick up. No hard rock mining necessary.

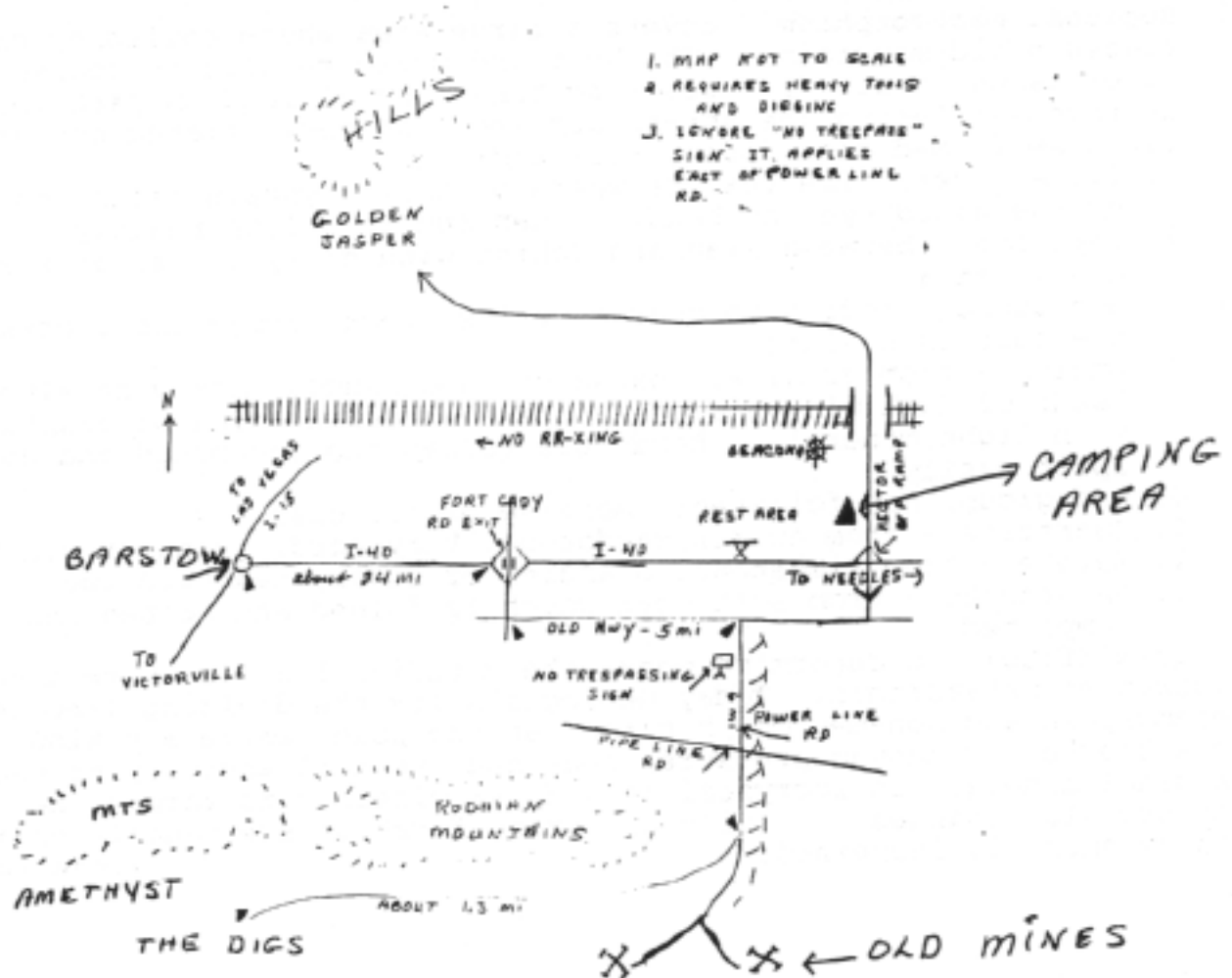
We will have our usual Saturday evening Pot Luck Dinner, and will have an Easter Sunrise Service on Sunday morning. Afterwards, our delicious Pot Luck Breakfast.

If anyone has a poem, short story, or a personal story to read for our Easter Service, please bring it along. It would be appreciated.

From Barstow take the I-40 East, to Hector off ramp (just past Newberry Springs). Go left under the freeway, and at the end of the paved road, the camping area will be on the left. It will be marked by a NOC sign. Camp will be approximately 1/4 mile from the off ramp. We will be there sometime Thursday evening. Hope to see many of you there.

Bob & Joan Henry,
Field Trip Committee

RODMAN MOUNTAINS



EDUCATIONMETAMORPHIC ROCKS

The term "Metamorphic" comes from the Greek meta, "change," and morphe, "form" or "Change."

The type of change which occurs are in the texture and chemical composition of the rock.

Heat and pressure causes the changes. Various combinations of these two forces cause different rocks to form along a continuum until the highest grade of metamorphic rock is produced as in gneiss (nice).

Sedimentary rock

Metamorphic rocks

Shale-----> slate ---> phyllite ---> schist ---> gneiss

Metamorphism takes place in several different ways:

1. Burial metamorphism - affects the base of very thick layers of sedimentary rock.
2. Impact metamorphism - affects rock struck by meteorites.
3. Dynamic metamorphism - rocks crushed against each other in fault zones.
4. Contact or Thermal metamorphism - occurs when magma invades and "bakes" the country rock. Hot vapors and fluids escape from the igneous masses and penetrate the country rocks further. These vapors contain dissolved mineral matter. Minerals in the country rock can be dissolved and replaced by new minerals. Usually fine grained.
5. Regional metamorphism - covers a large area where colliding continental plates build mountains. The heat and pressure produce coarse grained minerals which are foliated (flattened and aligned in parallel bands at right angles to the stress applied) and non-foliated textures. Textures formed are, first, foliated:
 1. Slate - very fine texture where mineral crystals cannot be seen by the naked eye, no banding seen and it splits readily.
 2. Phyllite - between slate and schist with silky luster or sheen due to mica.
 3. Schistose - medium to coarse grained rock formed under greater pressure than slate.
 4. Gneiss - from granite, coarse grained banded rock with alternating bands of dark minerals of chlorite, biotite, mica or graphite, with light minerals. Bands are folded and contorted and do not split easily.

Second group, non-foliated: massive or granular

1. Quartzite - from quartz sandstone. Very hard, granular quartz rock.
2. Marble - from limestone. Granular or sugary-textured rock.
3. Anthracite - from soft coal which is folded and heated and compacted.

It is difficult to determine where the dividing line is where a rock is classed as metamorphic. Today Geologists fix the dividing line between metamorphic and non-metamorphic rock at the point where any kind of rock is subjected to enough pressure, heat and chemical activity to cause the original minerals to recrystallize and new minerals to form. The original texture also changes. Fossils and stratification are usually obliterated and hardness is increased.

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EDUCATION (Continued)

Temperature and pressure (depth in the earth) where rock formation occurs.
degrees centigrade

100 150 200 250 300 350 400 450 500 550 600 650 700 750 800

- a. [REDACTED]
- b. [REDACTED]
- c. [REDACTED]
- d. [REDACTED]
- e. [REDACTED]

Depth in Earth's Crust

- a. Diagenesis - where sedimentary rock forms 0 - 4 miles
- b. Contact (thermal) metamorphism 0 - 2 1/2 miles
- c. Burial metamorphism 2 1/2 - 10 miles
- d. Regional metamorphism 2 1/2 - 15 miles
- e. Anatexis or melting - where igneous rocks form 1 - 17 1/2 miles

	TEXTURE	MINERALS COMMONLY PRESENT	NAME
FOLIATED ROCKS	Fine-grained Smooth, flat surfaces Separate grains not visible	Mica, Quartz (can be seen only with a microscope)	SLATE
	Medium-grained Uneven surfaces Grains visible	Mica or Hornblende Quartz Often Feldspar	SCHIST
	Medium-to-coarse Grained Banded Grains easily visible	Feldspar Quartz Mica or Hornblende	GNEISS
UNFOLIATED ROCKS	Medium-to-coarse grained	Calcite	MARBLE
	Medium grained	Quartz	QUARTZITE
	Fine grained Usually banded Separate grains not visible	Quartz, Mica. Often Feldspar, Pyroxene, Garnet	HORNFELS

Submitted by Ginny

References: The Field Guide to Geology - David Lambert & Diagram Group
 Geology Made Simple - John Sinkankas
 Field Collecting Gemstones & Minerals - John Sinkankas

RECAP OF NOC SHOW

1995 JUBILEE OF GEMS

With it's headaches, sore feet, aching backs, voices almost gone, and a few other things - I wonder "Why do we have a show?" Well the purpose of NOC is to educate ourselves and the public about the earth sciences and lapidary arts; so we have a dual purpose to educate and to make a profit. And I "kinda" think we enjoy it ourselves. It brings all of our members and former members together for a good time.

We educated by our displays, demonstrations, and explanations. The dealers paid us a fee which covered the rent and some advertising. Our profit came from our projects - sales table, geode cutting, opportunity drawing, grab bags, crafty corner, spinning wheel, kitchen, etc. Jane Livezey prepared a delicious dinner for us Friday evening to start our fun and fellowship.

This year we had a few obstacles that made for a less successful show than in the past. No. 1 attendance was down on Saturday - so the show chairman paced the floor and wondered why. We took flyers to Gem shops, art shops, museums, Senior Centers, Libraries, Boys & Girls clubs in LaHabra, Whittier, Fullerton, Placentia, & Brea. Jane L. mailed flyers to all neighboring clubs, and Jane H. had flyers out in all local schools. We were on at least three cable T.V.s. Announcements were in the newspapers and magazines. Quaker Saving ran a line item ad of our show. There was a problem with our banner.

Illness hit a few of our members - Don O. was relieved of his duty on Sunday morning. Jerry Conley and he talked too much they lost their voices.

More grey hairs, someone shop lifted a lovely specimen from a dealer. Realizing that our show was targeted, I tried to stress caution; clearing the building, before our take down started. But, our lovely friendly members turn into a rushing mob when "The show is closed announcement" is made. I felt the parking lot should be secured as members and dealers carried out their supplies. There were teenagers on skate boards, a grandmother, some giggling girls that seemed interested in what was happening in the parking lot. I ask several members to stroll outside and watch, but no one was willing to do this extra duty. After many members were too busy to help, your show chairman lost her cool. Please accept my apology.

There have been many new and good suggestions made by our new members to improve our show. I will pass those on to next year's chairman. We may take the challenge next year of moving to the new building or decide to stay at the club house.

The club did a great job of "each one, reach one, teach one." There is a long list of those who enjoyed our show and would like to join our club. Bushels and Bushels of Thanks to everyone for their support and help.

Izzie, Show Chairperson

MEMBERS IN THE NEWS



WEDDING BELLS will soon be ringing for a very special couple. Don and Loretta have plans for a May wedding. We wish them all the happiness and joy that love brings!



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HAPPY BIRTHDAY to those born in April. Have a wonderful time on your day! Your gemstone is Diamond. Your flower is Daisy or Sweet Pea.

- Bill Huber, 4/4
- Barbara Steed, 4/6
- Trini Hermosillo, 4/11
- Vicki Marks, 4/17
- Frieda Pool, 4/17



- Bob Henry, 4/19
- Eileen Deregim, 4/24
- Virginia Harvey, 4/26
- Joan Abramson, 4/27
- Peter Young, 4/29

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GET WELL wishes were sent to Frieda Pool, Al H., Bill Huber and Virginia Page. We all thank you for the lovely cards and thoughts.

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CLUB NEWS AND MEETING HIGHLIGHTS

REGULAR MEETING, March 14

We had 37 members i2 guests present, including Ruth Bailey, past CFMS president, and May Anderson, current president. We hope our guests had a wonderful time.

Stephanie Shea conducted our drawing. Joe Reed had a lucky night, as did several others! The \$5 membership drawing was won by Don Livezey.

The treasurer's report was given.

The Foothills Gem and Mineral club is selling their cases for \$25 a case. Call Don Warthen if you are interested.

Bill Burns spoke about the Stoddard Wells excursion, and plans are under way for an Easter trip to the Rodman Mtns.

Ginny demonstrated the club-owned kits to be used for educational programs by the members. Call her if you are interested in using any of this material.

Ginny also took orders for vests.

Let her know if you are interested in buying one.

Izzie gave a show report. All areas seem to be taken care of.

Short AFMS and CFMS reports were given by Ruth Bailey and May Anderson. We were reminded of the June show in San Jose.

Don W. announced that Virginia Page would appreciate help with the bulletin.

Russ Hughes told us that he can order atlases for every state west of the Rocky Mountains except Nevada and New Mexico. If ordered before May 1 the price would be \$12.50. They are normally \$14.95. Call Russ if you are interested. His number is (714) 499-1731.

Members please note:

We are extending the validity of our membership cards through 1995. Present holders of membership cards need to add -95 to each

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CLUB NEWS AND MEETING HIGHLIGHTS (Continued)

REGULAR MEETING (Continued)

card. New members may pick up their cards from me at the April meeting.

Also, if you haven't received a copy of the club by-laws or field trip rules, I will have copies of both at the meeting. Please let me know if you need this material.

Jane Livezey

BOARD MEETING, March 28

Don L. gave his treasurer's report. Preliminary profits and expenses for our show were given.

Much discussion concerning publicity and other aspects of our show was held. We will be in immediate need of a 1996 Show Chairman.

The Board approved for membership the following: Louis Gonzales, Bob Lauterio and Pat & Sandy Mogan.

Eileen Weins has a lot of rocks in her back yard. Anyone can come and take what they want. Please call her first before you go. Her number is: (714) 526-6748

Bill Burns talked about the trip to Rodman Mountains and plans for May which are still in the planning stages. September will be the CFMS field trip seminar.

Bill also discussed his pursuits in defining "wilderness area" allowances.

Izzie gave a report on our NOC show.

Our club has been asked to approve a proposal to raise the CFMS dues from \$1.00 to \$1.50. This will be brought to our membership and Izzie will bring our recommendation to the CFMS meetings this summer.

RECAP OF MARCH PROGRAM

A big thankyou to Dick Flaharty for a wonderful program on Oregon. It was a visual delight.

Loretta

CFMS NEWS

Plan now to attend the CFMS Show June 23-25 in San Jose. All events will be held on the Fairgrounds. This includes camping, dealers, exhibits, swap area, Awards Banquet and other activities. The large, airy camping area will open Wednesday morning at 8:00 a.m.

The Show will open Friday at 10 a.m. with 50 dealers and many exhibits. You can "shop until you drop." One building is devoted to allied hobbies - railroads, doll makers, gold panners, quilters and a blacksmith. THE DIAMOND DAZE SHOW & CONVENTION will have a table to promote our show, sell pins, give an opportunity for our drawing tickets, etc. Plan to work there an hour of two.

On Friday many CFMS workshops will be held such as Bulletin Editors' workshop. Friday evening will be Cracker Barrel time.

The CFMS Director's meeting will be held on Saturday. Everyone is welcome to attend and see how the CFMS functions and contribute to the discussions. During the report of our 1996 show we will have our decorated T-Shirt Contest. So come join in the fun and support the Diamond Daze Show. That night will be the awards banquet.

I have reservation sheets for those who are interested in attending, exhibiting or competing.

Isabella Burns, CFMS Director

AFMS NEWS

When hunting rocks, test the slope on or below for stability before getting into a position where you might get hurt or buried. And, always keep an eye on any rockhounds who are above you.

Taken in part from the AFMS Newsletter, Feb., by Mel Albright, Safety Chairman.