

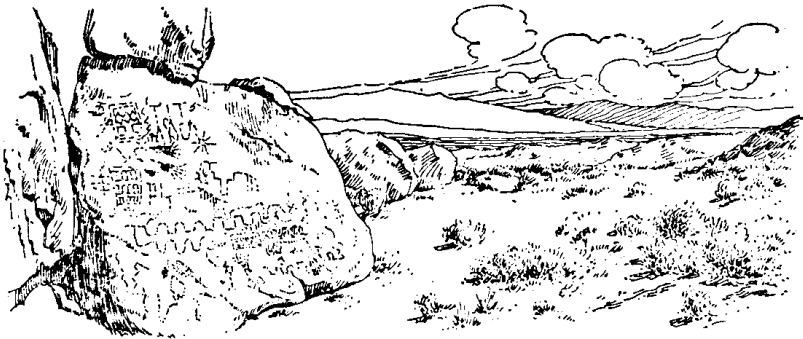
WHITTIER



**ROCKHOUNDING**

GEM & MINERAL  
SOCIETY

PROGRAM FOR JUNE :  
***"DINNER AND A MOVIE"***  
***(POTLUCK TIME)***



**JUNE, JULY, AUGUST**  
**1998**

# ROCKHOUNDER

## PRESIDENT'S MESSAGE

You may have noticed that the May issue of the Rockhounder was published sans "Message from the President". Let's hope that won't happen again. Jay is going to have lots of lead-time this month since this little epistle is a warmed over version of what almost made it to the presses last month. For the last few days of last month, my quiet time, that fleeting period between vocation, avocation (some minor face lifting of window millwork and other "honey do" projects) and the land of Morpheus, were filled with the readying of my computer to receive a new "bigger and better" hard drive. Kathy says that I spend too much time fixing (read improving) the computer and not enough time using it. It must be a guy thing! We've all watched Tim, the tool man, Allen and we know that a man is measured by the size of his hard drive. I might be dating myself, but I can remember when a hard drive was the trip into "Owl Hole" in the big yellow and white motor home that I bought from **Walt Abramson**. Anyway the new drive is in, and the traumatic shock of having the CD-ROM refuse to load a new operating system due to some stupid syntax error in a "config.sys" file is over. Programs are reloaded, and I'm ready to rock and roll.

The Walnut Tree Festival is over for another year and the general consensus at the board meeting was that the WGMS booth was an effective public relations effort. We came in a few dollars over the budgeted receipts so I'd say that the decision to participate again this year was a good one. As usual, the club depends upon the generosity of a few individuals, who unselfishly give of themselves to make such a project successful. I would like to take this opportunity to thank **Vern and Sylvia Cliffe, Les Roy, Angie Harwood, Jim Akin, Marcia Grady, Joe Goetz, Tony and Sandie Fender, Jack Zywocienski, Dave Martinez, and Jay Valle** for their support for the Walnut Tree and/or the Whittier Family Fair which was also judged to be a successful public relations vehicle.

In the April Rockhounder, **Vern Cliffe** told us about the California Federation of Mineral Societies' "Education Through Sharing" committee. This committee recognizes individuals or couples who have contributed greatly to their individual clubs and to the hobby in general. Last month the members unanimously selected the name of **Jim Akin** for submission to the CFMS Education Through Sharing Committee. Thanks Jim for

your tireless efforts for the club and on behalf of the club for the boys and girls of Whittier.

While we are on the subject, some other kudos are in order. Vern is doing a great job with donation awards. His innovative approach to ticket sales, with the end of year drawing for “big spenders” has added a new enthusiasm to the Donation Awards program. Good prizes and added incentives all add up to more interesting and effective meetings. Members have been supportive, both as buyers, and by donating items for prizes. Thanks are in order to **Mike Manneth** and **Walt Mauer**, both of whom provided donations for the program. And finally, I want to express a very special thanks to **George Cyrog**, who has been donating a large number of items and materials to the Donation Awards Program. I was the winner of a group of Lake Superior agate nodules, donated by George, at the April meeting, and I want to tell you, these are outstanding materials.

I look forward to seeing you all at the potluck.

*Jerry Turner*

### **A Note to Visitors Receiving This Bulletin**

**W**e would like to thank each of you who visited our booth at the Whittier Walnut Tree Festival for your interest in our hobby. This complementary copy of the WGMS bulletin has been provided to inform you of our upcoming events. We invite you to join us in a POTLUCK dinner at our General Meeting, to be held on June 25<sup>th</sup> at 7:30 PM, at Sorenson Park in Whittier (see map on cover). We would also be pleased to invite you to our other events and field trips, listed inside this bulletin. In the Fall, on the weekend of October 21 – 22, 1998, we will be hosting our annual Gem & Mineral show. The admission is free, and it’s a wonderful introduction to rock collecting and jewelry making.

*JValle*

### **May General Meeting**

**M**ichelle Sebresos opened the meeting with the flag salute and **Denise Reynolds** was introduced as the “*perpetual guest*”. **Bill & Isabel Burns** reported that **Jade Cove** had been reopened, but without the staircase (so it is a little tricky getting down to the beach right now.) **Jay Valle** reported on the **Opal Mountain Field Trip**. **Jim Akin** asked for members to donate *perform cabs* for the Boys & Girls Club to learn with. He also said

that **Rockgabbers** will be held on **June 14th**. We took a break about this time to enjoy the birthday cake supplied by **Bill & Isabel** in celebration of **Bill Burn's** birthday on May 27th (**Happy B'Day, Bill!!**) During this period, the **Silent Auction** began, and continued until the end of the meeting. **Sandie Fender** asked for people willing to help out at the **LA County Fair**, being held this year from Sept. 10 thru 27. The deal is, you work 4 hours (your choice of times) and you receive free parking and a free ticket to the fair. If you are interested, you should contact **Arlene Billheimer** at (909) 865-4570. For those of you involved in the **WGMS Show** committee, there will be a June 8th meeting at the usual place (call **Marsha Grady** at (626) 339-3593 for directions or information). **Michelle** asked for volunteers to host a summer "pool party" (the pool part is optional, and is mainly for "ambiance", or so I understand). **Vern & Sylvia** volunteered to host a party in July, and **Jay Valle** is still negotiating with his wife about August. If anyone would like to host a potluck in August, it would be greatly appreciated. The **Silent Auction** closed at 9:00 PM sharp and the "winners" of the bidding wars collected their treasures and paid up.

### Displays

The following people brought things for us to look at:

- |                          |  |
|--------------------------|--|
| <b>Sylvia Cliffe</b>     | 3 carvings from Deer horn, Rimrock Jasper, and Condor Agate  |
| <b>Michelle Sebresos</b> | 2 pieces of Charoite, a 30x40 cab and a piece off a slab   |
| <b>Jay Valle</b>         | A chunk of rhyolite containing Cherry Opal and a cab sized piece of Cherry Opal, collected off the surface at Opal Mountain. |

### May Door Prizes

The **Main Prize** was a beautiful piece of *malachite*, donated by **George Cyrog**, and won by **Jim Akin** who had the two winning tickets after about nine numbers were called.

Other winners were:

**Sylvia Cliffe** won the *Pliers Plus*, donated by the **WGMS**, **Jay Valle** won the *snowflake obsidian* rock, donated by **George Cyrog**, **Izzie Burns** picked out the *long-shank padlock and keys*, **Jerry Turner** selected the *3 slabs*, donated by **Mike Manneth**, and the *insulated 6-pack carrying bag*, donated by the **Cliffes** was won by **Tony Fender**.

I want to thank **Angie Harwood** for assisting me in collecting money and

keeping track of who won the prizes. Several silent auction items that were left over were donated to me for use at future meetings. I'll try not to have them all as prizes at the same meeting.

*Vern Cliffe*

## **Show Meeting Minutes, April 27, 1998**

### **Prizes**

1. A book on *Petrified Wood* has been ordered as a **Grand Prize**. Marcia's brother is going to make a stand for it.
2. **George Cyrog** will donate a ring.
3. **Marcia** will donate a wire-wrap necklace.
4. **Mrs. Roy** will make pendants cast in silver.
5. **Sandie** will make a rose quartz fan necklace with button beads.

### **Prize drawing**

1. 3 adults per hour
2. 1 child on the half-hour - no purchase necessary. Child will get 1 ticket for completing a sort of treasure hunt to locate items. We will try to have several treasure hunt forms. Child may enter more than once and will need to be present to receive prize.
3. Displayers and demonstrators will have a chance to win a table decoration for participating at the show.
4. Prizes will be given for the most ticket sales: 1st place - WGMS Membership for next year (single or family); 2nd - 5th places - table decorations.

### **Changes for Show**

1. The demonstration tables will be moved from the stage to where the raffle was held last year.
2. The raffle will move to display room at east entrance. The cases that were there will now house the "opportunity drawing" (previously called raffle).
3. The people that respond to our Internet site by sending a form back will receive one free opportunity drawing ticket when they arrive at the show.
4. The stage will be used for focus-of-show or special cases.
5. There will be an easy-up display in the front lobby with field trip pictures and text about our hobby.
6. We will have a field trip display case.
7. We will set up a TV for videos on Rocks, Gems and Minerals. We will put the TV in the north lobby hallway so it will be out of the way of traffic.
8. A student from a local college will be invited to identify gems and

minerals. Tony will bring his indoscope and TV.

(Note: the fruit and cookies were terrific! Thanks, **Jerry and Kathy**.)

The next meeting will be June 8th at 7:30 PM.

*Marsha Grady*

## **WALNUT TREE REPORT**

**P**reparations for **Walnut Tree** were underway weeks before the scheduled Sunday event. **Sylvia** spent many hours sorting, pricing and untangling chains to reduce the time for setup. **Joe Goetz** and **Les Roy** stopped by the storage garage two days prior to the day and loaded the booth framework into **Les'** pickup. **Joe** picked up six four-by-eight pieces of plywood, and with **Marcia's** brother, **Bill Grady** (a cabinet maker), both **Joe** and **Bill** cut the plywood down to regular table size so the club could have tables to use at the event. They are being stored in the garage for use at other times.

**Vern** and **Sylvia** and their motorhome arrived at the Walnut Tree at 5:50 AM and located the booth space. Not too long afterwards **Joe Goetz** and **Marcia Grady** arrived with the tables and **Joe's** 10 inch saw for cutting geodes. **Les Roy** brought the metal booth framework. Three more persons arrived and the task of setting up and getting ready was soon accomplished. Those helpers were **Tony & Sandy Fender** and **Jay Valle**.

New this year at the Walnut Tree was a vibratory tumbler, which attracted attention along with the cutting of small geodes. With each purchase of merchandise, a show flyer was handed out and the suggestion made that the flyer be attached to the buyer's October calendar. Later on in the day, **Jack Zywocki** graced us with his presence and was a big help in dismantling and packing away the booth with all its merchandise.

Summarizing the Walnut Tree this year: our receipts were somewhat less than last year and it would have been greatly appreciated if several more members had showed up to help. **A GREAT BIG "THANK YOU"** is in order for those named members who devoted so much of their time and energy to place the image of the **Whittier Gem and Mineral Society** in front of the public.

*Sylvia Cliffe*

## **CFMS April Field Trip Seminar Report**

**J**oanne Ritchey, CFMS Field Trip South Chairperson, should be congratulated on the excellent job she did on planning a well-attended outing. The weather didn't exactly cooperate all the time, as it was somewhat windy and rainy at times, but it didn't dampen our enthusiasm. Our first speaker on Saturday, **Steve** from CAL-GOLD, gave us his impressions on the use of GPS units, handed out literature and answered questions. **Harold**, BLM Manager from the Barstow office, gave a personal interpretation of the present regulations governing the collecting of rocks in and out of the wilderness, including his own experiences in collecting palm wood in the Sperry wash area with the Barstow Club. The second speaker from BLM spoke and offered numerous layouts of practically every aspect of the Northern and Eastern Desert area and BLM's attempt to catalog every situation. The layouts covered plants, animals, guzzlers and springs, roads, canals, military bases, private property, railroads and culverts, and many things we wouldn't think about. It's an attempt by BLM to find a way to manage the area for the benefit of public use and protection of species, etc.

After lunch on our own, we toured the Diamond Pacific plant in Barstow, which was very informative. Potluck was held at five-thirty and the group just about cleaned the food off the tables. As usual, there was a wide variety of food, including Yucca root, which was delicious. At 7 PM, we journeyed over to Calico Ghost Town campground for a campfire and program on the history of Calico. Returning to camp, we started our own campfire and enjoyed the heat before retiring for the night.

Sunday morning we spent touring the rock collecting sites in and around Mule Canyon. Some went into Tin Can Alley, while others wandered off back to camp for lunch. **Liz** and husband, **John**, took a wrong turn at the power line road coming out of Mule Canyon and ended up about 15 miles northeast of the canyon down at the dry lake bed. The roads weren't too bad and they actually found some agate and quartz areas. Realizing that they were in unfamiliar territory, they turned around and found the way back to camp two hours later. Only later did they realize that they had no tire jack in the truck and did not bring the CB on this trip - might have been in some trouble if things had not turned out so well. A good time to remind everyone that you should never go out ANYWHERE in the desert without being properly prepared!

Sunday afternoon found about half the group deciding to drive home while the rest of them figured that one more night in the desert would be good - and it was! No wind, beautiful cloudless skies, perfect dinner and campfire, and socializing with rockhounds from 6 different clubs and 3 different states. A wonderful trip with lots of new friends made!

**Vern Cliffe and Liz Alleruzzo**

**Memorial Day Weekend  
Field Trip to Opal Mountain**

(Due to Joe Goetz mother's hospitalization, this is just a brief summary of the weekend trip.)

**A**fter several years of field trips with low attendance, a record number of people, 41 persons and 10 dogs, took advantage of the long weekend to spend time in the sun and collect opals. Just about everyone found, or shared opal, which was collected over the 3-4 days. The newcomers were treated to a visit to Inscription Canyon and the petroglyphs to be found there, and to the collecting areas where amber, orange and cherry opals were found. An occupied eagle's nest was discovered and photographed by several members of the group. A gopher snake was captured and handled (gingerly) by a number of nervous field trippers.

The potlucks were great, and the variety of food was enormous, so no one went away hungry. The weather generally cooperated for the weekend; desert sun with slight wind during the day, and a little breezy in the evening where caution was used in having a campfire (a weekend trip to the desert without having a fire is like having cake without the icing!).

From all reports, other than a couple of scratches, everyone made the round trip out and back home without any problems or injuries. It'll be a trip that will be talked about for a long time.

Maybe you can join us on the next trip.

*Vern Cliffe*

**June Program: Potluck Dinner**

**W**e will be having our annual before-summer potluck in place of a special program. **Michelle** said that she might have a video lined up as well. So bring something to share with your fellow diners, and don't forget your paper plates, silverware and drinks.

*JValle*



**FIELD TRIP TO CERRO GORDO  
Historical Cerro Gordo Ghost Town  
June 13- 14, 1998**

*The following is reprinted from CFMS Newsletter:* This event is for all mineral collectors, rockhounds, micromounters and people who are interested in rocks, ghost towns, views, interesting destinations and all-around fun.

We start at 8:00 AM - We will quit at dusk. This is a dig for FEE. Fee is \$6.00 for one day or \$10 for two days. The dumps are LARGE and there are many. Bring your camera and enthusiasm.

Directions: From Lone Pine, take Hwy. 136 East, 13 miles to Keeler. Just south of Keeler, take Cerro Gordo Rd., go east 9 miles to the mine. High clearance vehicles recommended!

Minerals to be found:

anglesite, anhydrite, argentite, atacamite, aurichalcite, azurite, barite, bindheimite, bouonite, calcite, caledonite, cerargyrite, cerrusite, cervantite, jamosonite, leadhillite, limonite, linarite, lironite, malachite, mimetite, plumbogummite, pyrite, quartz, silver, smithsonite, sphalerite, stibnite, stromeyerite, tetrahedrite, willemite, wulfenite.

*Hosted by Lone Pine Gem and Mineral Society and the Cerro Gordo Historical Society*

Instructions for WGMS Members who plan to attend this field trip:

Camping: The closest DEVELOPED campground is at Diaz Lake, within 30-45 minutes of the *mines*.

*DIAZ LAKE.* Elev. 3,800 ft., 200 sites for tents and motorhomes, No reservations, \$8/night. Piped water, fire grills, picnic tables, flush toilets, solar shower. Two miles south of Lone Pine on Hwy. 395. Pets on leashes only. Very nice area.

For those who want to be together in a typical dry desert camp area, the people at Cerro Gordo have set aside the following areas:

TRAMWAY- Elev. 3,500 ft., 80 acres, six miles EAST of Visitor Center (Visitor center located at junction of Hwy 395 and 136 - just south of Lone

Pine). Typical desert camp. Bring water, wood, and all your own supplies. There will be Cerro Gordo representatives here to answer questions. Ok for tents and motorhomes.

SWANSEA: Follow directions above, then one more mile past Tramway. This is slightly closer but a recent victim to flash flooding, so it is very rocky and dirty. There will be someone there to direct you and give information.

RIVER EDGE CAMPING: Just south of the town, go over Keeler Bridge to the right, follow road to level area next to river. It is permissible to camp there.

CERRO GORDO ROAD: There are numerous, pullouts on the road up to the mine where a motorhome or two could camp. Motorhomes are NOT recommended AT ALL at the mine area. You do not need 4x4 but you do need a good engine. The road climbs 5,000 ft. in just 7 1/2 miles on a newly graded dirt road. The elevation at the top is 8,500 ft. It is highly recommended that you camp in the valley and make day trips to the mines.

TOWN OF KEELER: Keeler has no services anymore, even though there are about 100 residents left in the area. You must get all your supplies and gas by the time you leave Lone Pine.

DIRECTIONS AND MILEAGE: Take Hwy 395. North to the town of Lone Pine. Turn right on Hwy 136. If interested, stop in at the Visitor Center at this junction. Lone Pine is about 210 miles from Pasadena. According to the mine proprietors, Keeler is 13 miles east on 136, then 7 1/2 miles to the mine area on Cerro Gordo road.

For more information as to where the Club will probably be staying, contact **Joe Goetz** at (626) 339-3593.

This article courtesy of *Liz Alleruzzo*

### **Field Trip to Greenhorn Mountains**

**T**he field trip to the Greenhorn Mountains is planned for the weekend of July 25th and 26th. As the time draws near, call Joe Goetz at (626) 339-3593 for final details and camping information.

*Vern Cliffe*

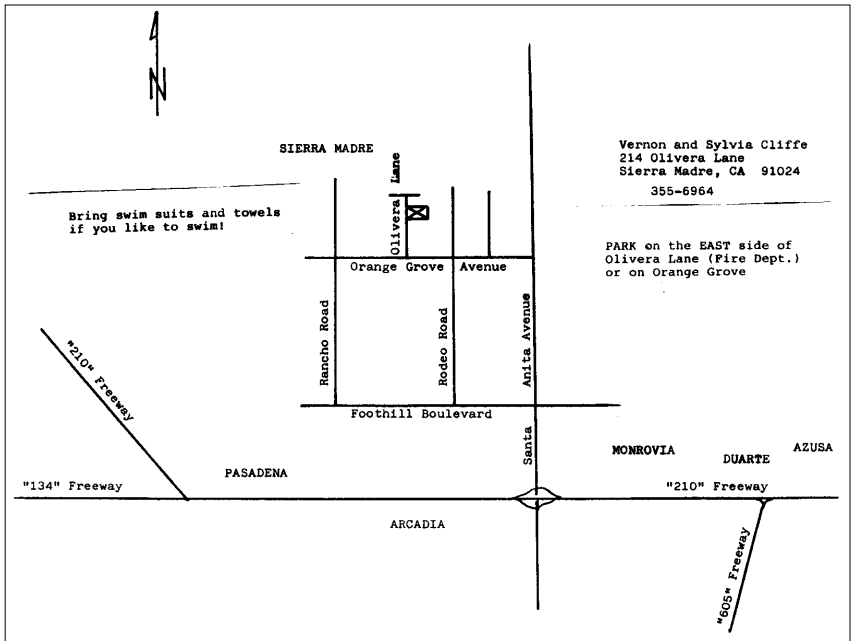
### Summer Swim, Picnic and Potluck

Mark your calendars for this annual event at Vern & Sylvia Cliffe's home in Sierra Madre on Sunday July 19th.

The "gates" will open at 2 o'clock, the pool will be full and potluck will be at 5 o'clock. Come and enjoy the fun!

See map below for directions to our place.

*Vern & Sylvia Cliffe*



### Lavic Siding for Stargazing

There will be an unofficial overnight field trip to Lavic Siding on Saturday August 15th for the purpose of observing this years Perseid Meteor Shower. This stellar event occurs each year in August, and this year it is predicted to be spectacular.

We will be arriving at the campsite at around 6 PM and will be having a late potluck about 7 PM. Afterwards, we will tell stories around the campfire (winds permitting) and watch the sky. Be sure to bring a lounge chair to lay back in and scan the night sky. The best viewing is after midnight until about

3 AM, so if you miss the potluck, you won't miss the activity.

Sunday morning, the plan is to head for home after breakfast so as to beat the summer heat.

If you have any questions, contact Tony Fender at: (626) 963-4627

*JValle*

**NEWS of CFMS, AFMS and OTHER SOURCES**

**N**ews Flashes: S-314 & H.R.-716 could change our field trips immensely! This legislation would stop the camping on most federally managed public lands. National RV Campground Owners Association will campaign hard to get this legislation passed because those who camp on public lands, would be driven to the commercial RV Parks. The recent Rock and Gem had an article by James Mulkey in regard to this, Read it and send your opinions to:

The Honorable Diane Feinstein  
The Honorable Barbara Boxer  
United States Senate  
Washington, DC 20510

The Honorable (name of your representative)  
US House of Representatives  
Washington, DC 20515

News , Department of Interior, April 25, 1998 *Uncle Sam Wants You -- to Enjoy Your Visits to Public Lands. See their new Web page (<http://www.recreation.gov>). By the year 2000 they hope to have an integrated nationwide recreation information available.*

Jade Cove; The new Jade Cove Regulations were reported in the Federal Register on March 30, 1998. To obtain it from the Internet go to (<http://www.access.gpo.gov/su-docs/aces/140.html>). Go to the middle of the page and enter "on" and "3/30/98" for the search date and "jade" for the search item, then select "text" from the item labeled:"fr3Omr98R Jade collection in the Monterey Bay National Marine Sanctuary" and enjoy all 21 pages.

*Memorial for: Fred Sellers*, Past Executive Secretary Treasurer of the CFMS, died April 22,1998; **Hub Dafoe**, CFMS President in 1951-52 died April 23, 1998; **Barbara Zukas**, wife of Floyd Zukas who presented a lecture and display at a recent WGMS Meeting.

*For more info on any of this information contact me.  
William Burns, CFMS Director*

*The following article was written by our very own WGMS member, **Darryl Futrell**. We found the article to be interesting and informative, and so it is our great pleasure to reprint it, in its entirety. However, because of its length, it will be presented in three parts. Here is the final installment.*

**SOME NOTES ON TEKTITES  
(Part 3 of 3)**

By Darryl Futrell  
Montebello Mineral and Lapidary Society  
Meteoritical Society

Reprinted from  
SKY AND TELESCOPE  
Vol. XXXIII, No. 5, May 1967

***Addenda***

*Since this article was written, the research on the moon rocks has led some scientists to be convinced even more that tektites did come from the moon. Printed below, in its entirety, is a news release from National Aeronautics and Space Administration (NASA) which gives a good summary of recent findings and current beliefs on this subject.*

***Tektite Discovery***

Ten years of detective work by scientists at the National Aeronautics and Space Administration's Ames Research Center, Mountain View, California, has produced major new evidence that from 10 to 100 million tons of the Moon are almost certainly on Earth already. The last shower of this lunar material, called *tektites*, arrived some 700,000 years ago, sprayed from the Moon's surface by the impact of a meteorite the size of a small mountain, which formed the 56-mile-wide, nine-mile-deep lunar crater Tycho. Millions

of tons of this lunar splash traveled 240,000 miles through space for about three days and showered down on the Earth, mainly over Australia, the Philippines and southeast Asia.

Tektites are chunks of glass that were first fused by the heat of meteorite impact and then reshaped by aerodynamic ablation during entry into the Earth's atmosphere from space. In the process of fusing into glass, the valuable record of what minerals composed this lunar rock was largely obliterated. Although the tektites are not a substitute for the complete

mineralogical record contained in the rock samples brought back by the astronauts, they are providing scientists with much new knowledge about the chemistry of the lunar crust. During the past decade, Dr. Chapman at Ames has assembled several tons of tektites.

The cosmic event which created the tektites, a collision with the Moon by a three-mile-diameter, projectile, of iron nickel composition, undoubtedly produced major luminous phenomena bright enough to be visible from Earth. Reflection of sunlight from billions of glass objects diffused through space would have presented a light spectacle in the sky for many nights. To this was added a half-day-long rumble of continuous sonic booms as the tektites arrived and entered the atmosphere. Thickbrowed Java man, whose fossil bones have been found with tektites, undoubtedly witnessed this extraordinary celestial event.

Scientists have differed concerning the origin of tektites since their discovery over a century ago. However, recent findings appear to clinch the Moon as the source. Dr. Dean R. Chapman, Chief of the Thermo-and-Gas- Dynamics Division at Ames Research Center, a world authority on tektites, has been working on them since 1959. Recently he has been able to relate the chemical composition of one family of Australasian tektites to the chemical composition of the rock on Tycho's rim, as determined by Surveyor VII when it landed there in 1968.

Dr. Chapman also has identified the exact lunar source of the Australasian tektite shower. It is a ray of ejected rock, the *Rosse ray*, which can easily be seen on the lunar surface, projecting out from the huge crater Tycho for a thousand kilometers in the direction of 19° north of lunar east, and passing over the smaller crater Rosse.

By screening a million tektites, and chemically analyzing a select 600 of them from 200 different discovery sites, he has charted their precise landing pattern as an inclined "S" spread over the Earth's surface. Thousands of computer trajectory runs have proved that only a shower of objects originating at Tycho and traveling in the same direction as the Rosse ray could have produced this particular pattern on Earth.

These conclusions throw light on the Moon's history and allow dating of certain lunar surface features. Since the Australasian tektites are estimated 700,000 years old, so is Tycho. Material on the Moon that is overlain by rock ejected from Tycho is older.

At least three cosmic impacts have showered the Earth with lunar debris: one

35-million years ago landing in the United States; another 15-million years ago landing in Czechoslovakia; and the 700,000 year-old Australian tektites.

Dr. Chapman, who saw his first tektite in 1959 in the British Museum, recognized that it must have entered the Earth's atmosphere from space. He had made nearly identical objects in an Ames wind tunnel during numerous simulations of atmosphere entry.

The tektites cannot have come from a wandering cloud of meteoroids because they lack the isotope aluminum 26 which is produced by cosmic ray bombardment during long time in space. Moreover, a meteorite impact is known to have melted the rock that formed the tektites, since numerous meteorite fragments have been discovered encased in the tektites by Dr. E. Chao of the U.S. Geological Survey. These two bits of evidence established the origin as a large meteorite impact crater, either on Earth or the Moon. No crater of sufficient size, and of the proper age, and location is known on Earth. Also, there is no radial wheel-spoke-like pattern of tektite landings, leading back to a specific impact point on Earth. Ring waves on the tektites, due to atmosphere entry, show that they had the required arrival speed of 25,000 mph for objects coming from the Moon.

The inclined-S landing pattern of the Australasian tektites runs from near Madagascar to south of Tasmania, then northwest across Australia, curving north across Indonesia, then northeast over southeast Asia and the Philippines. As a source of tektites each crater on the Moon would produce a different landing pattern on Earth due to the curving trajectories from Moon to Earth, combined with the rotation of the Earth about an inclined axis. It was Chapman's research on the curving trajectories that established the Rosse ray from Tycho as the source of the Australasian tektites.

Dr. Chapman points out that, although the tektites are a good heat-shield material and do not disintegrate during atmosphere entry, other chemical types of lunar rock may also have splashed out from Tycho but not survived atmosphere entry.

*Article on Tektites from the July 1970 Gems and Minerals magazine.  
Submitted by **Michelle Sebresos** 02/98.*

**June Birthstone is the Pearl  
Rose -is your Flower**

**P**EARL - The pearl is one gem that does not come from the ground. The pearl forms in Mollusks (clams, oysters) which can be found in both salt and fresh water. In the true pearl (not cultured) the layers build up somewhat like those of an onion, but in concentric circles. There is mineral content in this organic build-up... *"Enjoying Gems" by Wyndham via Ghost Sheet*

Uneven or Baroque pearls may have very interesting or artistic shapes, but are far less expensive than round pearls, even though they may be much larger in size.

Australian Aborigines considered pearls to be an inconvenience when accidentally cracking their teeth while eating the north-coast oysters, and worthless. Children used pearls as marbles.

A single oyster can create pearls of different hues. The actual cause of pearl color is a mystery. Take one oyster and insert five shell nuclei from another oyster and return to the sea. After a year reopen the oyster and you may find five different colored pearls.

*Ref: "The Pearl" by Fred Ward, National Geographic, via Glendale-Verdugo 2/97  
Michelle Sebresos*

**LAPIDARY (?) EQUIPMENT FOR SALE**

1 - FELKER - DRESSER BRICK AND TILE CUTTING UNIT WITH 1/3 H.P. WESTINGHOUSE MOTOR. Older heavy-duty machine equipped with a 6" diamond blade. Includes a sump pump for setting up a water spray system - needs connecting tubing. \$75.00

1 - SANDING/GRINDING UNIT WITH MOTOR. Unit mounted on a wheel/cement base. Discs can be added to switch from rough sanding/grinding to polishing discs. \$35.00

1 - SMALL ELECTRICAL 120 VOLT STEAM (?) GENERATING UNIT. Mounted on top of plastic container (about 1 quart) with a float to probably cut off the unit when it runs low on water. Gooseneck 1/2" copper tubing to direct steam flow. \$25.00

1 - FLAT LAP WITH 6" DISC WITH SPLASH GUARD MOUNTED ON A STURDY WOOD TABLE, MOTOR DRIVEN. Add your own drip system and more discs for an inexpensive lapidary cabbing unit. \$45.00

Call Phil Wood at (626)359-2824 (Bradbury area). Be sure to tell him that you are calling about the notice in the WGMS bulletin.

*Vern Cliffe*



**GEM AND MINERAL SHOWS**

- June 6 - June 7      San Diego - San Diego Lapidary Society,  
Al Bahr Shrine Center,  
5440 Kearney Mesa Rd., Hours: Sat 10-6, Sun 10-5
- July 10 - July 13    Arroyo Grande - Orcutt Mineral Society,  
Arroyo Grande High School Parking Lot  
Fair Oak Road. Hours: 8-5 each day.
- July 11 - July 12    Culver City - Culver City Rock & Mineral Club.  
Veterans Memorial Building, Comer of Culver City  
Blvd. & Overland Ave. Hours: Sat 10-6, Sun 10-4
- Sept 19 - Sept 20   Paso Robles - Santa Lucia Rockhounds, Pioneer  
Museum & Park, 20 1 0 Riverside Avenue  
Hours: Sat 10 - 6, Sun 10 - 5
- Sept 19 - Sept 20   Anaheim - Faceter's Guild of Southern California,  
Brookhurst Community Center,  
2271 W. Crescent Ave. Hours: Sat 10-6, Sun 10-5

**FEDERATION SHOWS ACROSS THE COUNTRY**

**NORTHWEST**

- June 12-14      Billings, Montana. Metro Park,  
4th and Expo.

**CALIFORNIA**

- July 3-5      Monterey, Monterey Fairgrounds,  
2000 Fairgrounds Road.

**MIDWEST/AMERICAN**

- August 14-16    Houghton, Michigan  
Michigan Tech University  
1400 Townsend Drive

**ROCKY MOUNTAIN**

- October 23-25    Tulsa, Oklahoma  
Tulsa County Fairgrounds,  
23rd St. between Vale & South Louisville.

**EASTERN**

- November 5-8    Stamford, Connecticut  
Tor School

*Vern Cliffe*

California Federation of Mineralogical Societies



# GEM & MINERAL

## SHOW

July 3, 4, 5, 1998

### Monterey Fairgrounds

Gems, Minerals, Fossils, Jewelry, Rocks, Equipment  
 Dealers, Demonstrators, Exhibits, Lectures  
 Childrens Activities  
 Museum Displays  
 Snack Bar  
 Raffle



Friday 10 to 6  
 Saturday 10 to 6  
 Sunday 10 to 5

Hosted by the Gem Clubs of  
 Monterey, Paso Robles, Salinas and Santa Cruz  
 Kay Carter, 422 Wilson St., Salinas CA 93901 (408) 422-0530

Admission: \$4.50      \$0.50 off with flyer  
 Children 12 & under free with adult

**Editor:** Jay Valle; 1421 Latchford Avenue, Hacienda Heights, CA 91745  
 Home: (626) 336-3714; Work/Voice mail: (909) 396-2332;  
 e-mail: [jvalle@aqmd.gov](mailto:jvalle@aqmd.gov)  
**Exchanges:** Bulletin exchanges are welcomed and should be sent to the editor.

## Affiliations



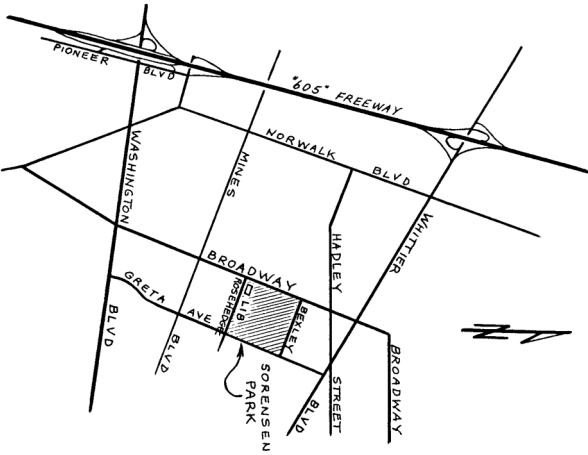
California Federation of Mineralogical Societies  
 American Federation of Mineralogical Societies  
 Special Congress Representing Involved Bulletin Editors



**Whittier Gem and Mineral Society, Inc.**

P. O. Box 865

Whittier, California 90608-0865



Meeting Date: June 25, 1998 at 7:30 PM  
Location: Sorensen Park (See Map)