

WHITTIER



ROCKHOUNDER
GEM & MINERAL
SOCIETY



APRIL 1999

ROCKHOUNDER

A BUZZ FROM THE PREZ

Surfing is not *that* relaxing, but it is an exciting sport. A surfer is always trying to catch that next wave and have the glory of a great ride. This busy month makes me feel that I am trying to catch the next wave. I seem to be rushing to complete one task only to move on to the next.

We rushed to Stoddard Wells on Friday and didn't have time to even say "Hello!" to people until we had to go home. On Saturday night, the Monterey Park Gem Society meeting was a must with field trips and insurance to be decided. That has been the story of this month. I promised to complete the WGMS application for the All American Award; The North Orange County Show is this Saturday; Earth Science Studies needs field trip insurance for Zzyzx and a contract for Camp Paradise; and "What?" GIA wants the address of the club that meets at the Carnegie Hall in Massachusetts, etc. I have been catching all of these waves and feel that I am still afloat. This Saturday I will miss some. The Whittier Family Affair is Saturday and Les needs help, NOC Show is this weekend, and the Dinner "Celebration for the Life of Grace Bradshaw" are all the same day. As Coordinator for the 2000 CFMS Show, I will be in Riverside for the "Walk Through" of the CFMS Executive Board. As a surfer would know, I am missing some good waves and I am disappointed.

Thank you **Pat Maggs** for volunteering for the job of instructor at the Boys and Girls Club. **Vern Cliffe's** acceptance to fill the vacancy of director on the Board is appreciated. **Jay Valle** is trying to plan our Fiftieth Golden Anniversary Show. Please give him your support.

The insurance problem has not been settled; however the broker has confirmed that they will refund our \$60.00 for additional insured. Now if they will only sell us field trip insurance for \$60.00, it would be fine.

Izzie



March Meeting Notes...

Although the door prize awards and materials didn't exactly arrive before the meeting had begun, they did arrive and were setup only a few minutes behind schedule. Normally, **Vern Cliffe** would have been running the drawing, but he was at Burro Creek, Arizona and couldn't do it. He designated **Kathy Piechota** to perform the duties, but then she broke her arm (tripped over a cat, I hear), so the responsibility fell to **Jerry Turner** who did the job admirably (nothing bad happened, at least).

Izzy Burns filled us in on the latest word on the CFMS insurance problems. As usual, it is good news/bad news. The good news is that we are getting a refund of the \$60.00 annual CFMS insurance fee. Our show liability coverage is now carried by the CFMS with the yearly dues. The bad news is that our field trips are only covered on a trip-by-trip basis, and must be approved by the insurance company in advance. The destination, total number of participants and trip length must first be supplied. If the insurance company approves, then field trip coverage may be purchased for a nominal cost. Other clubs have already gone to a liability waiver which field trip participants would need to sign before going on club-sponsored events. **Isabelle** will be pursuing this further.

In other news, the WGMS members present voted to skip the Walnut Tree festival this year. It is very difficult to set up and run the booth, we make only a small amount of money for our effort, and it is usually understaffed by WGMS members. The redistribution of stored equipment from **the Fender's** Glendora home is proceeding. They and the **Turners** will be disassembling and removing the shed this weekend. **Jay Valle** presented the Stoddard Wells field trip report (see article on pages 8 and 9) and displayed photographs taken during the field trip. **Jay Valle and kids** will be at Burro Creek, Arizona from April 3 thru 9. They will be staying at the BLM Burro Creek Campground and anyone wishing to join them can find them there.

Jack Zywocinski presented and narrated a video about the **16 to 1 Gold Mine**, located and currently producing gold in the Sierra Nevada Mountains (see article on pages 16 – 17). These modern day prospectors are recovering impressive quantities of gold using metal detectors. They examine the tunnel walls with specially modified metal detectors that can locate ore with confidence to about 9 inches into the rock. Apparently, a lot of gold lies just behind walls which shows no evidence to the eye of what lies beyond. Visitors are allowed and they are looking for investors!

March Door Prizes

MAIN PRIZE: Estwing Heavy-duty Hammer (donated by **Pat Maggs**), won by **Kathy Turner**

ADDITIONAL PRIZES:

Prize	Donated by	Winner
•Epoxy kit	WGMS	Michelle Sebresos
•3” C-clamp	WGMS	Marcia Grady
•Razor Knife & Blades Set	WGMS	Kathy Turner
•Chunk of Chapinite (?)	??????	Kathy Turner
•West. Immigrant Trails Map	WGMS	Les Roy

Vern Cliffe

Whittier Family Affair

On March 27th, Whittier held its annual Family Affair festival at the regional park located at the corner of Lambert and Scott. It featured booths from local businesses and clubs, including the Boy Scouts and Whittier Gem & Mineral Society. Easter egg hunts, sponsored by the City of Whittier, occurred throughout the day.

Les Roy and David Martinez remained through the entire period. **Jay Valle** helped out from about 9:00 to 11:30 AM, and **Michelle Sebresos** dropped by just after **Jay** left to pick up his son. Many people dropped in to gawk at the gemstones brought by **Les, David and Jay**. Club flyers and Show flyers were handed out as well. **Les** brought tumbled and **Jay** brought untumbled (raw) apache tears which were given out as gifts to our younger visitors. Thank you to those who helped “show the flag“!

JValle

**Show Committee Meeting
April 19th**

There will be a show meeting at 7:00 PM at the **Turner’s** Whittier home on York Avenue. We have a lot of details to discuss and decisions to make, so we’ll see you there. If you need directions, call me at (626) 336-3714.

JValle

CFMS NEWS

April 21: BLM Public Hearing on Surface Management Regulations for Locatable Mineral Operations - Environmental Impact Statement. It will be held at the Double Tree Inn in Ontario.

April 24 - Exhibitors' Workshop in Oxnard.

June 20 - Bulletin Aids Workshop at Turlock

June 17 - 20th CFMS Show and Convention in Turlock

The changes in the CFMS Insurance were somewhat startling. Great American Insurance Company offered to cover individual clubs as "named insured". This changed our need to pay for an additional insured certificate for our meeting place.

The other change is that field trips will not be included in their insurance policy. The field trips can be insured for an individual club fee if an application is made about two weeks prior to the event - giving the destination of the trip, the activities of the trip, the number of days of the trip, and the number who are taking the trip. These are questions that are difficult for a field trip leader to know two weeks in advance. The club has been looking into *release of liability* forms for field trips. If anyone has any information about such releases, that information would be appreciated.

Just a bit about government restrictions on our recreation and education programs. The April 21 meeting on mining has four alternatives – **Existing Regulations to Continue, State Management, Preferred Alternatives,** and **Maximum Protection.** Of course most of us feel that our use of the desert is limited now and would certainly prefer no changes, but with other people pushing for changes we will probably have to accept some changes. I think the Maximum Protection could curtail some of our programs and require paper work for us. The third plan is preferable to the others to me. Working with the BLM Field Offices in the area where we desire to recreate gives us an opportunity to discuss our desires and be heard more than rules from other agencies, even though I realize the personnel in the field offices change often.

The "Large Land Grab", Land Acquisition, is another subject to draw your attention. We fought long and hard and held our desert for eight years before we lost the fight. This Acquisition is moving on and even though it only effects a small area of our state so far, but HR701 would provide \$900-

million annually for Federal Acquisition, and HR798 would guarantee \$2.3-billion annually. See me to read about these bills and hearings.

Bill Burns, CFMS Director

New Location for Barstow BLM Bookstore

One of the joys (?) of driving through Barstow used to be stopping in at the old “**Barstow Way Station**”, the now defunct BLM office/museum just off Barstow Road, next to the community center. The nature center in the back displayed various desert flora and the pond contained the rare and endangered Desert Pup Fish. There were various displays inside, including the **Old Woman Meteorite**, a display of local gemstones, occasionally live animals (they had a baby sidewinder for a time), and a decent bookstore, which sold an eclectic mix of desert-related documents. These included books on the Mojave Trail and Indian Rock Art, BLM and USGS Topo maps, and plenty of written/visual materials to satisfy the naturalist in all of us. That resource became unavailable some months ago when the BLM moved their offices across the freeway and into a new building. The “Way Station” was given to the local school district as a resource center and is closed to the public.

This last weekend, during the **Stoddard Wells Tailgate**, I stumbled onto the new home of the BLM Bookstore and many of the displays. It is located in the **California Welcome Center** in the **Tanager Outlet Center**, off the Lenwood Exit on the outskirts of Barstow (I had visited the larger Outlets Stores on the other side of the road, but hadn’t gone over to Tanager Outlets until this weekend). They have the entire bookstore, most of the displays, and all of the maps (the **Old Woman Meteorite** wasn’t on display, so I assume it is either still at the old location or at the new BLM offices).

So if you were missing the resources that used to be found at the old BLM office, they are once again available in Barstow at the Tanager Outlet Center.

JValle

Notes from Stoddard Wells Tailgate

March 20 – 21, 1999

The always-popular **Stoddard Wells Tailgate**, hosted by the **Victor Valley Gem & Mineral Club**, was almost chased away by Mother Nature this year. Those who persevered and braved the elements were rewarded with some really nice deals.

Erin and I (the Valles) arrived at “*Snob Hill*” at about 5:30, Friday evening. **Vern & Sylvia Cliffe, Tony & Sandie Fender, Dan & Diane Stevens,** and **Ed & Corinne Imlay** were already there. **Jason Badgley** showed up just before dark. It was a beautiful evening and a nice sunset. There wasn’t a clue to what Saturday would be like.

Morning brought the bad weather news to us, along with **Warren Dowler** and his new mapping software (no relation between the two, I’m sure). It was storming back home, and an icy wind was blowing with *vigor*, and it began to bring clouds to us from over the mountains at a startling rate. The “line” opened at 9:00 AM and we were there at the moment it began. As we worked our way down the rows of sellers, the clouds rolled closer and a light sprinkling of rain was felt. The wind was causing grief with the dealers and customers alike. We saw many people we knew selling various rock and jewelry. **Liz and John Alleruzzo** were there and so was **Linda Abrams**. Linda had so much trouble with the wind that she packed up and left early Saturday morning. I saw **Angie Harwood** and **Michelle Sebresos, Pat Maggs,** and **Bill & Isabelle Burns**, all looking for treasure (rumor has it that **Les & Bea Roy** also were there for a while, but I missed them). Just before lunch, **Peter & Elizabeth Carroll**, visitors to the Pasadena show and club meeting, arrived and we directed them to the tailgate. They had been up on the mountain collecting the yellow and green marble, and had found some hematite too. Apparently, the wind was hurricane strength up on the ridge and they had had a difficult time of it. They had shown an interest in going to the tricolor marble as well. Though I made a quick run down the “line” to try to find them, I was unsuccessful in locating them and we had to go without them.

After lunch, the **Fenders** and the **Valles** took a drive out to the tri-color marble area for a short time, then explored our way back to camp. We met **Warren Dowler** in his minivan on the road back and he explored some with us. **Warren** recently purchased a topographic map software package called **Map Tech** and was using it, fully integrated with his laptop and Magellan GPS, to see exactly where he was, and to keep track of everywhere he had been. We arrived back at camp by 4:00 in the afternoon, in time for happy hour.

Happy hour was enjoyed by all in the **Fender** motorhome. This became really interesting when **Liz and John**, and **Vince and Ruth Jarrel** showed up with their 5 kids. At one point I counted 19 people in the vehicle. Potluck was enjoyed in three motorhomes due to the high winds and wind chill still being experienced outside. Later that evening, **Jay Valle** and **Jason Badgley** managed to get a campfire going that a few well-wrapped souls tried to enjoy. The wind let up quite a bit after the sun dropped out of sight, but it still was a force to be reckoned with for several more hours into the night. Except for **Mr. Badgley**, everyone gave up and retreated “indoors” after only a short time outside (my ears were freezing). **Warren** stayed with us until after the potluck, then reluctantly headed home to do his taxes.

The wind finally died off during the wee hours and Sunday morning graced us with an absolutely gorgeous, cloudless sky. The mountains were lightly dusted with a new coat of snow and the view was breathtaking. **Dan & Diane** left early, and **Tony & Sandie**, **Erin & I**, and **Jason Badgley** took a trip out to the talc mine and collected soapstone for Jay and Erin to carve. Afterwards, we took the back way along Stoddard Road, made a stop at Stoddard Well, then followed a wash over to the Outlet Centers at the Barstow Lenwood Exit. While **Sandie** looked for tennis shoes, I wandered around and discovered the new home of the BLM bookstore (see article elsewhere in bulletin).

Back at camp, we had lunch, then **Tony and Sandie** packed it in and split, while **Jason B**, **Erin and I** ran through the “line” one more time. Naturally, we were made a couple of offers we couldn’t refuse. Afterwards, we collected our “treasure and headed for home as well.

JValle

Change of Address

Michelle Sebresos
308 Woodrow Street
Taft, California 93268-2518
(805) 765-5980

Although Michelle will be staying in Whittier during the week, all communications should now be sent to the Taft house.

Editor

Our Mineral Relations

The field of geology has always been full of special inter-kingdom relationships. Many of them are known to modern prospectors who routinely make chemical tests of plants to determine what metal traces their roots have absorbed out of the ground.

If you are looking for gold, for instance, it would behoove you to note where horsetails grow because these ancient plants have a fondness for it. One botanist recently reported a case of horsetails absorbing gold in the proportion of four ounces per ton of plant material. A kind of mold was recently discovered in Russia that can extract up to 98 percent of the gold in liquid solution. Wild buckwheat, native to the Western United States, has a similar affinity for silver and is known to be abundant near silver mines. Likewise, the wild poppy and the dandelion are clues to copper. In the American Southwest, locoweed often marks uranium deposits. Tumbleweed and milk vetch are the tip-off for selenium.

Animals share in this attraction for minerals, too, because all protein molecules seem to welcome a few metallic atoms in their complex spiral latticework. Australian sheep have been known to die for lack of a tiny amount of cobalt in the soil, and other animals have succumbed because they needed a tiny trace of copper or manganese. The latter metal, in fact, is so vital to ants that miners in the mountains of New Mexico have been reported to use anthills to plot the courses of manganese veins.

Ron Bozicnik of the Rockcollector via Breccia 06/98

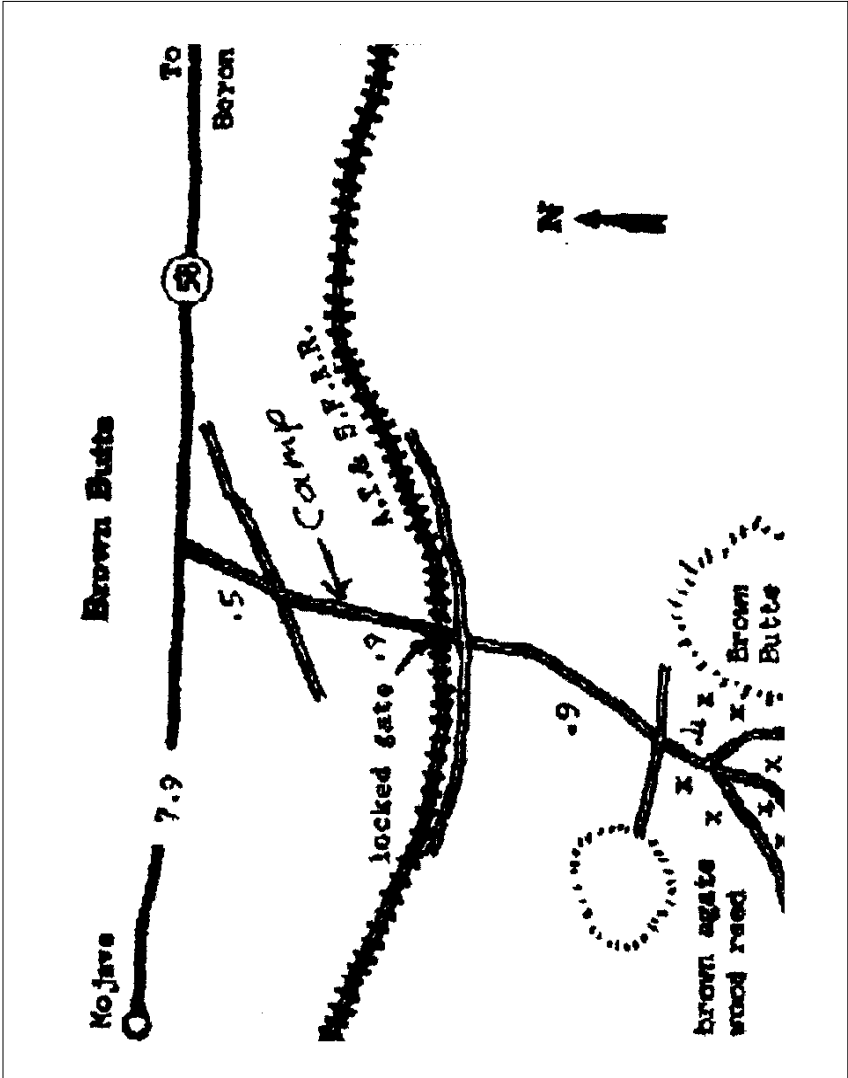
Coral Forests in Alaskan Waters

Deep within Alaska's frigid waters, divers discovered a valuable resource, Alaskan coral. Roger Pike, a former Alaska jade shop owner and fisherman, retrieved sufficient quantities of coral to produce a new and genuine line of precious stone jewelry from Alaska.

The coral, fresh from the sea, is brilliant pink and remarkably heavy in its natural state. After being cleaned and polished, the coral produces a hard stone which shimmers in mottled green, blue, yellow, brown, and black.

A year long search involving underwater television cameras and divers was responsible for his eventual discovery of the extensive coral forests.

Original source unknown, 1988, via Breccia 06/98



Field Trip to Brown Butte

April 24 to 25, 1999

The April field trip is to an old location that is new to us. Field trip leader, **Jason Badgley**, will be leading the participants to a nearby locations. It should be interesting and a lot of fun. Don't forget potluck Saturday night.

Origin of Desert Varnish

By Richard Busch

Desert varnish, a smooth black coating that accumulates slowly on rock formations ranging from small boulders to cliffs hundreds of feet high, has puzzled naturalists for many years. On the underside, where it is not exposed to the air, a varnished rock often acquires a glossy red-orange finish through interaction with water and minerals in the soil. Because of its striking appearance and widespread occurrence, the varnish frequently attracts attention, especially in national parks such as Grand Canyon and Zion, where visitors query rangers about its cause.

Analysis

For years, scientists have assumed that desert varnish was composed primarily of manganese and iron oxides, precipitated out of the rock through weathering processes. However, the varnish structure eluded precise analysis because it is composed of particles too fine to be characterized by x-rays, the main diagnostic tool of mineralogical investigation.

Infrared spectroscopy, a technique which illuminates mineral samples with infrared light and records the pattern of absorbed wavelengths, was applied to the study of desert varnish by two Cal Tech scientists. George R. Rossman, associate professor of mineralogy, and Russell M. Potter, Cal Tech graduate student, used rock samples from 20 locations in California, New Mexico, and Arizona in the analysis of desert varnish. The samples included quartz, granite, basalt, rhyolite, quartzite, feldspar, and sandstone.

The results of the analysis revealed that the main constituent in desert varnish, totaling about 70%, is clay, not manganese and iron oxides. The oxides form the remaining 30%. The red coating on the underside of the varnished rocks, previously believed to be iron oxide, turned out to be 90% clay, incorporating an iron oxide stain, similar to the iron in the black finish on the exposed portions. In addition, it was found that all desert varnish, whether it formed on the side of a cliff or on a 10 inch boulder shares a similar composition.

Conclusions

It was concluded that most of the coating collects from sources outside the rock, rather than from material leached out of it, as many geologists had believed. One reason for this conclusion is that desert varnish is found covering non-manganese or non-ironbearing quartz crystal. Although some

rocks may contribute oxides through weathering, the primary source seems to be wind deposited particles.

How It Happens

Fine, windblown clay particles are a critical ingredient in forming the varnish, which first forms on rough, porous surfaces. These surfaces allow dew and other moisture to collect, depositing a thin film of clay when the water evaporates. This film of sediment on the rock's surface encourages water to migrate through the tiny pores inside the film, depositing a thin film of manganese and iron as the water evaporates.

The formation of desert varnish is interdependent upon the clay and the oxides. The dry, fluffy clay particles depend on the oxides to form a resistant cementing agent. The oxides, in turn, require clay particles for transportation and deposition. This is the underlying reason why all desert varnish that was examined contained both clay and the manganese and iron oxides - never one without the other.

Lithosphere 4/93 via Breccia 03/98

How long is that?

Eon:One billion years, used by astronomers to estimate the age of galaxies -or the universe;

Fortnight: 14 nights, used in Great Britain;

Moon:29.5 days or the time between two new moons; used by the early farmers of the Tigris-Euphrates Valley and probably by our American Indians;

Generation: ...25 years for people, 4 years for horses, 2 minutes for bacteria; used by biologists to study life cycles.

Nanosecond: ..One billionth of a second, or the time it takes light to travel 30 centimeters; used by scientists studying atomic particles.

Original source unknown, via Breccia 05/98

A Beginner's Vocabulary: Quartz

A GATE: Translucent to semi-opaque cryptocrystalline chalcedony occurring in a great variety of colors and patterns.

Banded: Bands often appear in contrasting colors and seems to have formed in concentric circles - sometimes interspersed with iron, manganese and other elements.

Brecciated: The agate has been broken into sharp pieces by nature and consequently recemented by chalcedony.

Dendritic: Meaning bee-like, the dendritic patterns resemble moss, ferns, trees, flowers and plumes. This variation has several sub-varieties.

Eye: Concentric round eye-like patterns may cover portions of this agate, or on a bolder scale, make up the whole agate.

Fire: An iridescent agate with botryoidal, or grape-like internal construction.

Fortification: A variation of banded agates in which the highly complex and convoluted bands resemble ancient fortresses.

Iris: The colors of the rainbow are seen in this translucent agate composed of thousands of tightly packed layers. The colors are due to the breakup of light by diffraction.

Scenic: Scenic agate may have several colors and a combination of patterns that resemble pictures. As opposed to scenic jasper, scenic agate should be at least partially translucent.

AMETHYST: Violet or purple crystalline quartz.

AVENTURINE: Usually green cryptocrystalline quartz shimmering with inclusions of mica or an iron mineral.

BLOODSTONE: Dark green chalcedony with red spots. An old name for it is heliotrope.

CARNELIAN: Translucent cherry-red to orange-brown chalcedony.

CHALCEDONY: Cover name for a large group of microcrystalline quartzes.

CHERT: Tough, grainy and opaque cryptocrystalline quartz, which when highly colored like Missouri Mozarkite, can be used for gem material.

CHRYSOCOLLA: Chalcedony colored blue-green by copper.

CHRYSOPRASE: Chalcedony colored green by nickel.

CITRINE: Crystalline yellow quartz.

ENHYDRO: Hollow quartz shapes, usually crystal lines, containing water.

FLINT: Tough, compact, opaque and similar to chert. Sometimes colorful and grading into other microcrystalline quartz. It can be used as a gem material.

GEODE: Quartz form often combining cryptocrystalline and crystalline varieties. Usually rounded, geodes are either hollow or show in their construction that they have been hollow.

The Rocket via Rockcollector 5/97, via Breccia 05/98

Carats and coins

Have you ever wished that you could tell the weight of a stone easily or use a familiar item for comparison? Ray Kopman gives us just such a ready reference.

United States coins weigh approximately:

dime = 11 carats	penny = 15 carats
nickel = 25 carats	quarter = 28 carats
half dollar = 56 carats	
silver dollar = 133 carats	

Diablo Diggins 2/97 via Breccia 04/98

Gold Mine Becomes “Golden Partner” of California Sesquicentennial

Original Sixteen to One Mine Inc., the second oldest United States publicly traded gold mining company, became a Golden Partner of the California Sesquicentennial last month. The California Sesquicentennial Commission recommended the official title to Secretary of State, Bill Jones, who oversees the entire celebration.

The Sixteen to One Mine is located in remote Sierra County in Northern California. What separates this mine from most others is the rich concentration of a butter-yellow gold/silver alloy bedded in snow-white quartz. The Company has displayed its \$1 million collection of gold at the California State Fair, where the exhibit earned a record six blue ribbons. The collection has been displayed at the Nevada, Sierra, and Plumas County fairs over the past five years. It was also on display at Coloma on January 24, 1998, when Governor Pete Wilson kicked off the 150-year celebration.

The Company has been an active ambassador for gold mining for many years. It has a proven record of high quality presentations of the history and the significance of gold mining. It provides "hands on" exhibits that are educational and informative, as well as entertaining and exciting. Exhibits include any and/or a combination of the following:

- Melting gold and pouring it into \$25,000 gold bars for viewers to hold
- \$1 million gold display
- Historical display of traditional deep vein mining
- A wooden portal with the year-round climate of the mine
- Drilling and simulated blasting of hard rock
- Mucking
- New technology of metal detecting and ground-penetrating radar
- Interaction with real gold miners proficient in sharing their passion

Miners from Alleghany will travel and participate in predetermined Sesquicentennial events throughout the State of California to promote the history and provide education of the discovery of gold and its impact on the development of California. The exhibit will bring each event to life with real gold, real miners and real mining activities. The exhibits have a proven record of broad appeal to men, women and children of all ages.

The Sixteen to One maintains an active web site, which is accessible on the Internet (www.origsix.com). The mine worked cooperatively with the fourth

grade at Deer Creek School, providing history, photography of gold ore specimens and a tour of the mine as the students prepared their own web site. Their web site took second place in a worldwide competition. The Company will assist grammar schools throughout the state in creating unique web sites.

More than any tangible exhibit or historical record, expect the Sesquicentennial to become revitalized by the spirit of the Sixteen to One miners. Who can better relate to the public the spirit of those who left the comforts of civilization to seek their fortunes in the California gold fields than the underground gold miner of today?

Of all the goals of the Sesquicentennial, Michael M. Miller, president of the Sixteen to One, regards understanding the spirit behind the events of 1848-1850 as a main goal. Most everyone learned about Sutter and Marshall or the wagon trains and hardships of just getting to California in grade school. Few people can relate to the allure of mining for gold. Fewer still ever have the opportunity. "I know what it is like to depend on finding gold for your livelihood. So do our forty-niners," he said. "Unlike the low-grade ore and open-pit mines of today, mining in the Sixteen to One closely resembles the risk/reward nature of surface mining 150 years ago. Attitudes are the same. The tools, rules and methods are different, though."

Participating as a Golden Partner is not limited to Commission-sponsored events. The Company developed a road show capable of traveling through the United States and other countries for any event. It plans to be in Missouri when two wagon trains set out to California. When the captain and crews of the tall ships arrive in California's ports, they will be entertained with melting gold and pouring bars.

Original Sixteen to One Mine is a tribute to the preservation of the historical significance of the California Gold Rush and carries this history into the twenty-first century. Today, it is the only producing, traditional, deep vein gold mine in California, Continued successes in what was once the riskiest of businesses is an inspiring trend in an age of cynicism as it was 150 years ago. The Company offers the Sesquicentennial and the general public a much-needed tonic for souls numbed by modern life.

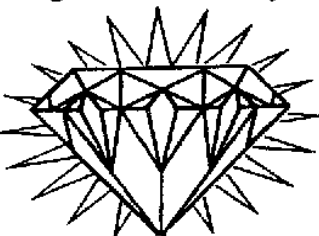
Via International mining Journal 03/99, submitted by Vern Cliffe

California Federation of Mineralogical Societies
60th Annual Show & Convention

GEM & MINERAL SHOW

"Diamond Jubilee of Gems"

County
Fairgrounds



Turlock
CA

"Y'all flock to Turlock"

JUNE, 18, 19, 20, 1999

Fri. & Sat. 10-6 Sun. 10-5

Hosted by: Mother Lode Mineral Society

Dealers Exhibits** Jewelry** Lectures
Prizes** Touch & See Exhibit** Cafeteria
Demonstrations** 3 Buildings Full 4 U**

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P.O. BOX 1263, MODESTO, CA 95353
ADMISSION \$4--UNDER 12 W/ADULT--FREE RV PARKING

<http://www.bell21.com/motherlode/>

April Gem Shows

- April 9-11 **Santa Monica:** International Gem & Jewelry Show
Santa Monica Civic Auditorium
- April 10-11 **Paradise, CA:** Paradise Gem & Mineral Club
Veterans Memorial Hall, Eliot and Skyway
Sat: 10-5, Sun: 10-4
- April 16-18 **San Diego:** San Diego Gem & Mineral Society
Scottish Rite Center, 1895 Camino Del Rio So
Fri: 12-7, Sat: 10-7, Sun: 10-5
- April 24-25 **Lancaster:** Antelope Valley and Palmdale Gem & Mineral
Clubs, Antelope Valley Fairgrounds, Challenger Memorial
Hall, Hours: 9-5 both days.
- April 29-
May 2 **Valley Springs, CA:** Valley Springs Pow-Wow
Snyder Ranch, 1290 Paloma Road
Hours: 10AM – dark daily.

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Bulletin exchanges are welcome and should be sent to the editor.

Affiliations



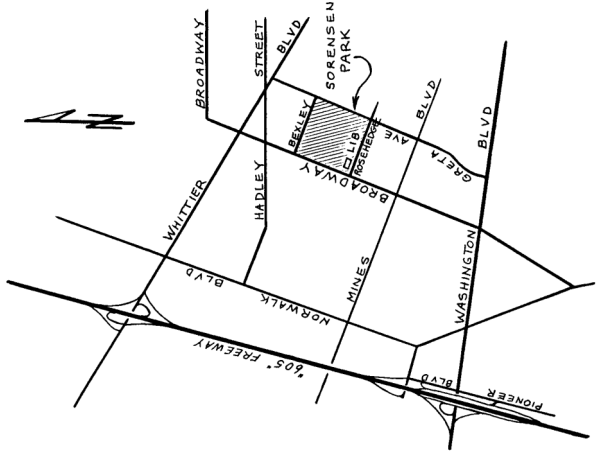
California Federation of Mineralogical Societies
American Federation of Mineralogical Societies
Special Congress Representing Involved Bulletin Editors



Whittier Gem and Mineral Society, Inc.

Post Office Box 865
Whittier, California 90608-0865

**Editor: Jay Valle, 1421 Latchford Ave.
Hacienda Heights, CA 91745**



Meeting Date: April 22, 1999 at 7:30 PM
Location: Sorensen Park (See Map)