



From the President's Pen:

The August Ice Cream Social and Silent Auction were a huge success, thanks to the efforts of new members Diane Killen and Denise Phillips and their family members, and silent auctioneers Hugh Brady and Myron Zents. Thanks to everyone who participated last month in the Educational Meeting. We are fortunate to have such a dedicated group of volunteers.

I am especially looking forward to our September 14th field trip to the Pacific Ocean, led by Charlie Brown. I hope to see many of you there.

Part Two, the Mighty Atom Revisited resumes our mineralogy class where Part One left off (see page 5).

Jim Barton

VICE PRESIDENT'S COMMENTS:

I was told that the Ice Cream Social was a huge success. A small group was present that evening, but everyone really enjoyed the ice cream and other snacks brought by the members.

Margareta and I want to express our gratitude to Diane Killen, her husband Ronald and Denise Phillips, who took over the task of Entertainment Committee for the Club's Ice Cream Social Event. I was told they did a bang up job, which made the event such a success. Also thanks go out to all the others who came early, stayed late in helping in the set up and tear down for this event, plus helping in every manner.

Margareta and I missed this wonderful event, for we had a previously scheduled reunion and visit with old Military friends back in the South Eastern part of the US. We had a safe and exciting trip and visit to portions of Louisiana, Mississippi and eastern Florida. Other than a memorable Reunion, the visit to Cape Canaveral and the Kennedy Space Center topped it all. We highly recommend to everyone to go to the Space Center if you ever get to that part of Florida; it is a once in a lifetime place to see. No rock hounding this trip; however did get to see a large Moon Rock on display at the Space Center. Maybe next time, if we ever go that way again.

Robert Oleachea

EDUCATIONAL PROGRAM FOR SEPTEMBER 10, 2002

The September Educational Program will be a guest speaker, Mr. Wally Hobson. Mr. Hobson is an uncle of Karla Shannon. He was scheduled to be the guest speaker to our club September last year. Due to the National Tragedy that happened September 11th 2001 the club meeting was cancelled. Karla has arranged for Mr. Hobson to speak to us this year. I will quote from last year's September Bulletin article by Karla about her Uncle's presentation and qualifications.

"The September program for the RRR Educational Meeting will feature speaker Wally Hobson, who will talk about sunstones, a type of feldspar, which he has collected in Southern Oregon. Wally has been an avid rockhound for over 30 years. He has also been a very active member of several rock and gem organizations, including the Mount Hood Rock Club and Columbia-Willamette Faceters Guild, both in Oregon."

Included also this evening will be our Silent Rock Auction and a Show and Tell table will be set up for the lucky members to show their latest finds.

Robert E. Oleachea

**MINUTES FOR ROSEVILLE ROCK ROLLERS
EDUCATIONAL MEETING AUGUST 13, 2002**

1. **Call to Order** – after the Ice Cream Social the meeting was called to order by President Jim Barton.
2. **Present:** 20 members, 3 juniors and 1 guest, Nancy Hood.
3. **Flag Salute**
4. **Thanks** – given to Diane Killen and Denise Phillips and their family members for setting up the refreshments, tables and providing the interesting table decorations (mineral specimens). Also, thanks were given to everyone who contributed goodies for the Ice Cream Social.
5. **Welcome** – Guest Nancy Hood introduced herself.
6. **Drawings** – winners: Guest Nancy Hood, Member Rolf Andrews and Junior Ben Phillips. Iris Geiser was thanked for donating more door prizes.
7. **Club Awards** – from CFMS, for Articles submitted: Karla Shannon received Honorable Mention for an Adult Article on Jim Hutchins; Myron Zents received a Certificate of Appreciation for an article on Lois Reynolds and Inez Berg received an Honorable Mention award as editor. The Club received a Silver Certificate Award for the All American Award. Jim Barton received a plaque award for an Advanced Technical Article on volcanoes in Lassen National Park.
8. **CFMS Show** – Jim Barton thanked all who helped with the show and/or attended the show.
9. **Silent Auction** – thanks were given to the members who brought in donations for the table.
10. **Field Trips** – Florence Brady mentioned handouts were on the table. She thanked Terry Yoschak for her excellent job in printing the information in our Bulletin. Upcoming CO-OP and Club field trips were discussed.
11. **Request for a Speaker** – Jim Barton received a request from Audrey Hubbard, an Elementary School teacher in Antelope for several speakers needed for four different dates between Sept. and Dec. The students are 4-6 graders in the Gifted Education Program. Frank Yoschak graciously volunteered. Please contact Jim if you can do this.
12. **Future Activity** – Iris Geiser suggested an activity done by another gem and mineral club. Children (Scouts) were invited to attend an educational meeting with workshop/demonstrations conducted by Club members.
13. **Treasurer's Report** – Rob Blazina reported all bills are paid for.
14. **Sunshine** – Elton Dean is now home, would like to receive phone calls and sent his thanks for all the calls and cards. Betty Soper-Arnold sent a thank-you card to the club, and is also home, recovering very well from open heart surgery.
15. **Librarian** – Nettie Moore discussed the use of “sign out” cards and the missing book is still out.
16. **Display Board** – Kevin Chesebro will bring the mineral/cab display to the educational meetings and it will be used at his junior meetings.
17. **Rock and Gem** – forms are available for the club discount rates.
18. **Refreshments** – volunteers are needed for October and November.
19. **Adjournment** – meeting adjourned at 8:17 p.m.
20. **Following the Educational Meeting** – the Board met/decided to submit a writeup for the CFMS Education Through Sharing Award. The Board also received an informational item submitted by Kymberly Andrews and Florence Brady, to be voted on during the next Board meeting.

Respectfully Submitted,
Florence Brady, Secretary

**MINUTES FOR ROSEVILLE ROCK ROLLERS
BOARD MEETING AUGUST 27, 2002**

1. **Call to Order** by President Jim Barton at 7:07 p.m.
2. **Present:** Jim Barton, Rob Blazina, Nettie Moore, Bob Oleachea, Florence & Hugh Brady, Kymberly Andrews. Absent: Elton Dean, Betty Soper-Arnold, Charlie Brown, Jack Messersmith, Terry Yoschak and Myron Zents. A Quorum was present.
3. **Show Audit** – Jim Barton reported he and Kevin Chesebro have about 50% of it done.
4. **GPS** – donated to the club by Kevin Chesebro for use on field trips.
5. **Treasurer** – Rob Blazina reported the Club will be paying the bill for the rent for the remainder of the year. All bills are paid.
6. **Library** – Nettie Moore had no report.
7. **Programs**- Bob Oleachea reported Wally Hobson will be the speaker. There will be a Show and Tell of materials found on recent field trips and a Silent Auction.
8. **Field Trips** – Hugh Brady and the Board discussed upcoming CO-OP and Club field trips.
9. **Secretary** – Florence Brady reported we have received the 200 rock hound stickers which will be sold for 25 cents each. She read a thank you note to the Club from Betty Soper-Arnold. Sutter Buttes sent an application for an exhibit case(s) at their show on Nov. 23, 24. Minutes for the Board Meeting on July 23, 2002 and the Education Meeting on August 13, 2002. A motion for approval as presented, was made by Bob Oleachea, seconded by Rob Blazina. Motion passed. A postcard requesting more information on the Club was given to Kymberly Andrews who will send a bulletin to the person along with a note inviting him to the next meeting.
10. **Miscellaneous Business** – Rob Blazina reported on the San Francisco Club's show.
11. **Old Business** – none
12. **New Business** – the Board reviewed and discussed a written request to review the Club's By-laws and Standing Rules in regarding to membership dues and types of memberships. The fact that a member's dues no longer cover the total cost of CFMS dues and bulletin costs for that member was discussed. Under consideration is the development of a subscription rate for receiving the Club's monthly bulletins. Suggested fee: \$12/year or prorated at \$1/month. Several changes were suggested regarding changing some of the Lifetime members to Honorary members (do not have to pay CFMS fees for Honorary members). It was decided to meet further to discuss these items. Next meeting will be on Sept. 5, 2002, 7 p.m. at Bob Oleachea's house.
13. **Adjournment** – meeting was adjourned at 9 p.m.

Respectfully submitted,
Florence Brady, Secretary

Field trip to Virgin Valley, Nevada -- August 8 to 13, 2002

By *Charlie Brown*

On Thursday August 8th, Barbara & I took off for Lakeview Oregon to attend the "Tallman Gem and Mineral Show" and to accompany them on a field trip to an area near Plush, Oregon, where that G&M club has a few claims for collecting "Sunstones", which are feldspar crystals. These particular feldspar crystals formed in a volcanic field of basalt and as they weather from the basalt they float to the surface of the desert where you can usually spot them as they reflect the sunlight.

Barbara & I found Ellis Hunt & Carollyn Lutton at the Lakeview G&M Show on the afternoon of Saturday, Aug 10, and they accompanied us on the sunstone field trip on Sunday morning and later that afternoon on to Denio Junction, Nevada, near Virgin Valley, and after fueling up our vehicles we parted company. They went on to Winnemucca, Nevada and Barbara & I drove back the 28 miles to the Virgin Valley turn off from highway 140 and about dusk we set up camp near the hot spring pool at the FREE public campground. This campground is clean with pit toilets and has warm running showers in the bathhouse next to the swimming pond that is fed by natural hot springs. The campground is in the Sheldon Wildlife Refuge.

From the campground it is about 5 miles to Rainbow Ridge and about 8 miles to the Royal Peacock Opal mines. At the office they have a very impressive display of Virgin Valley Fire Opal. Digging at the Rainbow Ridge mine is done by breaking up very large and hard clods of thick heavy sticky clay, or digging through the tailing piles in which the petrified and opalized limb casts are found. Not all pieces found contain fire opal or even opal at all. In fact, some of these 15 million year old pieces of wood are not preserved at all, they are only very old soft wood that, as it dries out, just falls apart and disintegrates to dust.

Barbara & I spent Monday August 12th here digging through about a 2 to 3 cubic yard bucket of this material. We found some small unimpressive pieces of opal here; however 2 other opal hunters near us did find some large and very impressive fire opals with values appraised at several hundred dollars, perhaps even thousands of \$\$\$\$\$. One of these diggers paid only \$35.00 and was going over the so-called dump or tailing piles that others have already gone through. The other did as Barb and I had done and paid the \$200 for the 2 to 3 cubic yard scoop. After returning to camp that afternoon we relaxed in the mineral pool for a while before supper and retiring.

Tuesday morning after breakfast we drove the 8 plus miles across the desert to the Royal Peacock Mine just to see what it would be like there. It was a rather pleasant drive as there are many spring fed grassy meadows scatter across the valley floor along this raised gravel road. It was wide enough in most places for 2 cars to easily pass each other.

When we arrived at the Royal Peacock Mine AKA ranch we found a neat, clean place with full hookup RV sites, they even have TV hook ups, a small office, general store, mine show room and sales office run by a pleasant woman called Joy Wilson.

Joy greeted us with a smile and invited us to come into her office to see all of her pretties. She really did have some very pretty opals to show, they also are pricey!! The price to dig opals here at the Royal Peacock Mine is \$70.00 per day per person to dig virgin dirt from the cliff wall or \$30.00 per day per person to dig in the tailings.

The Royal Peacock Opal Mines Inc. is open from May 15 through Oct. 15, 7 days a week, weather permitting from 8-4, the rock shop hours are 8-5.

Summer mailing address: Royal Peacock Opal Mine, Inc. P.O. Box 165, Denio, Nevada 89404 Phone # 1-775-941-0374 E-mail www.royalpeacock.com

SEPTEMBER BOARD MEETING:

September 24, 2002, 7 p.m. Tiny Tots Room, Maidu Center



SUNSHINE:

Elton Dean is recovering at home, would like to receive phone calls and sent his thanks for all the calls and cards. Betty Soper-Arnold sent a thank-you card to the club, and is also home, recovering very well from open heart surgery.

When you have items for Sunshine please call Darlene Cline at 916-723-4938.

**ROCK ROLLER
FIELD TRIPS**

Charlie Brown, Chairperson

Sept. 14	Beach - Bolinas, CA for fossils, agates
Oct. 5	Iowa Hill, CA for Tremolite a.k.a. California Tiger Eye!



** Contact Charlie Brown to sign up for a field trip (916) 652-4240*

Shop Tips

Household vinegar will dissolve epoxy glue by soaking overnight.

Your tools won't rust if you spray them with Pam or WD-40, then wipe them with a dry cloth.

Use an old salt shaker to apply grit to a flat lap.

When applying glue to a small stone, put the glue in a small container and use tweezers to dip the stone into the glue. It is easier than trying to put the glue on the stone.

Chats and Chips 5/90 via The Coastal Plain Geode 12/95 via The Rock Collector 1/96

Editor's Note: We have not tried any of these tips. Use at your own risk!

SEPTEMBER BIRTHDAYS

- 9/3 Charles Cline
- 9/5 Rosa Svoboda
- 9/6 Rolf Andrews
- 9/6 Ray Wogec
- 9/7 Myron Zents
- 9/9 Wilbur Scott
- 9/13 Katherine Carrick
- 9/14 Bobbe Huntting
- 9/24 Sharon Neidlinger
- 9/24 William Haworth
- 9/30 Karla Shannon



SEPTEMBER'S BIRTHSTONE

September's birthstone, sapphire, is the blue member of the corundum family. Other well-known corundums are the red ruby and the black emery. The most desirable color is the Kashmir or cornflower blue.

The crystal shape is a hexagonal double pyramid and it has a hardness of 9 on the Mohs scale. The chemical make up of this stone is 53% aluminum "Al₂O₃". Iron and titanium cause the blue coloration. Violet sapphires, "Chinese amethyst," contain vanadium. Green sapphires are sometimes referred to as Madagascar emeralds. There are also pink & yellow sapphires. Star sapphires exhibit a trait called asterism. The three lines that join to create the star are said to represent faith, hope and destiny. Occasionally there are also cats eye sapphires.

Possibly the best sapphires come from Sri Lanka and India, but they can be found in Burma, China, Vietnam, Madagascar, Thailand, Australia, Cambodia, Nigeria, Kenya and Tanzania. Here in the United States they are found in Montana, Georgia and North Carolina. The name sapphire is derived from the Greek "sapheiros", Latin "sapphiros" and the Hebrew "sappir" all meaning "blue".

King Solomon is said to have owned a sapphire ring. Ancient Persians believed the earth rested on an enormous sapphire and that its color is reflected in the sea and sky. The king of Spain in the 7th century had a crown with 9 large sapphires in the shape of a cross. There are very notable sapphires among the British crown jewels including a large rare yellow sapphire in the sword of state. Napoleon Bonaparte was given two large sapphires which had belonged to Charlemagne. One of the world's largest sapphires at 540 carats is the Star of India at the American Museum of Natural History in New York.

Kymerly Andrews

PUZZLER:

There are at least 38 mineral names that begin with the letter Z. Can you name four?



via Rockwood Rockhounds 12/98
(see last page for answers)

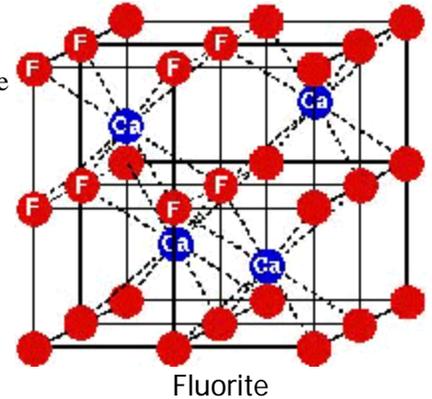
COOP and NFBT FIELD TRIPS

- Sept. 13,14,15 Broken Hills, Middlegate, NV for opalized wood, fluorite. Club Sponsor: Carmichael Club. Contact: Marlin Stewart, (916) 781-8703 mwlstewart@yahoo.com
- Sept. 21,22 Ludwig, NV for copper-related minerals and local minerals. Club Sponsor: El Dorado Co. Club. Contact: Steve Roberts, (503) 644-8109 sands820@hotmail.com or Barbara Terrill (530) 676-2375, rockit@directcon.net
- Oct.11,12,13 Searles Lake/Trona, CA for lake minerals/crystals. Club Sponsor: El Dorado Co. Club. Contact: Fred Ott, (530) 677-8440, fred.ott.b8t5@statefarm.com
- Oct. 19 Goat Mt. near Stonyford Dam, west of Maxwell for moss agate. Club Sponsor: El Dorado Co. Club. Contact: Merryan O'Neil (530) 622-4229 moneill@directcon.net
- Oct. 20 Black Butte Reservoir, CA (Near Orland) for colorful jasper, petrified wood, some agate. Club Sponsor: El Dorado Co. Club. Contact: Merryan O'Neill, (530) 622-4229, e-mail: moneill@directcon.net
- Oct. 26, 27 Clear Creek, CA for jade, plasma agate, chromite, possible melanite garnet and uvarovite. Club Sponsor: Contra Costa M&G Society (A NBFT club). Please contact: Sam & Hazel Woolsey, (925) 837-3287, kr6at@arrl.net so they can plan for the potluck dinner/breakfast.
- Nov. 28-30, Dec. 1 Lavic Siding, East of Barstow, CA for jasper, onyx, sagenite, fluorite. Club Sponsor: Mother Lode Mineral Society. Contact: Marion Roberts (209) 538-0197 mvroberts@bigvalley.net or Al Troglin (209) 838-7725 shnalrockhound@yahoo.com (Please call ahead of trip as turkey dinner is planned for Thanksgiving Day)

Part Two, The Mighty Atom Revisited:

Last month, Part One stated that atoms could share electrons, bond together into compounds, and form a crystal lattice (geometric pattern). Atoms can also gain or lose one or more electrons, creating an ion with an unstable electrical charge. Ions attract other ions that have an opposite (positive or negative) electrical charge. Two or more different ions come together and form an atomic bond (stuck together).⁵

Imagine the ions as spheres of different sizes for different atoms (elements), larger spheres for elemental Fluorine (F) and smaller spheres for elemental Calcium (Ca). F wants another electron, so it can get a negative one (-) charge. Ca easily loses two electrons, getting a plus two (2+) charge. The two ions (Ca and F) attract each other and form the chemical compound calcium fluoride or CaF_2 (one calcium ion bonds to two fluorine ions). In the crystal growth process, a square (cubic) three-dimensional structure of alternating Ca and F spheres grows into the mineral fluorite. The cubic structure is the geometric pattern for the crystal growth for the mineral fluorite.⁴



Definitions:

A **mineral** is defined as a naturally occurring (no artificial help from man), homogeneous (all the same) solid (not a liquid or a gas) with a definite (but generally not fixed, or just one type) chemical composition (CaF_2) and a highly ordered atomic arrangement (cubic structure). Minerals usually (but not always) are formed by inorganic (not organic) processes.¹ An organic process involves formerly living things, like the formation of petroleum hydrocarbons by heat and pressure working on buried plant (carbon) matter. An inorganic process could be a hydrothermal (hot water) fluid that keeps the ions moving too fast to combine (grow), then cools enough to allow the crystal growth of a mineral.

Crystals are a polyhedral form (geometric solid), with a specific set of faces, edges, and corners (cubes have six faces or sides, eight edges, and eight corners), which is consistent with the geometric packing of the atoms within the crystal (the geometric form of a cube, which the atoms create as they crystallize into a mineral).²

Sometimes a crystal may not visually appear to have a geometric form that is typical for that mineral. The crystal form may be present at the microscopic level, but is invisible to the human eye. The crystal represents a **pseudomorph**, a mineral whose outward crystal form is that of another mineral.³ Crystals of one mineral can melt or dissolve by geologic or geochemical processes, and leave their crystal pattern as an open space (void) without removing different minerals or rocks surrounding the missing mineral. Liquid fluorine and calcium ions later enter the void left by the missing mineral, and re-crystallize in the missing crystal shape, while maintaining a cubic structure invisible to the eye.

Other times the crystal form can be the result of several related basic crystal forms combining (cubic is one of seven simple crystalline forms which can combine in the isometric system).

Thanks again to my professors at the University of Nebraska at Omaha, my college mineralogy text (*Manual of Mineralogy, Klein and Hurlbut, 20th Edition*); *Simon & Schuster's Guide to Rocks and Minerals*²; *Dictionary of Geological Terms, 3rd Edition, Bates and Jackson, AGI*³; *Mineralogy, Sinkankas*; and my college chemistry text (*Chemistry, the Central Science, 4th Edition, Brown & LeMay*) for providing the basis for this article.



Goof Gallery



In their attempts to understand more about our world, a lot of good people made a lot of honest mistakes. Other "mistakes" weren't so honest, but were the result of unchecked greed for money and fame. Here is one:

For many years, the ground in the village of Whitby, England was strewn with baffling objects vaguely resembling coiled snakes. Local legend explained that years earlier, the area was crawling with snakes which St. Hilda beheaded and turned to stone. The coat of arms of the town of Whitby (showing three coiled snakes) recalls that legend. In less benign tributes to the legend, locals "found" the original snake heads and reattached them to the snakes, then (not surprisingly) sold them. In fact, the heads were skillfully carved from stone. And the snakes? They were really fossil ammonites that became extinct at the same time as the dinosaurs.

From the website "Strange Science" - Goof Gallery

<http://www.strangescience.net/stfor2.htm>

CO-OP MEMBER TRIP TO LUDWIG AREA, NEVADA

WHERE: Ludwig / Mason Pass / Minnesota Mine

WHEN: SAT. & SUN. SEPT. 21 & 22, 2002

SPONSOR CLUB: El Dorado Co. Mineral and Gem

LEADER INFORMATION: STEPHEN ROBERTS
(530) 644-8109 sands820@hotmail.com

WHEN /WHERE TO MEET: McDonalds parking lot at 8:30 AM Saturday SW corner North Main & McGowan Lane (North end of downtown Yerrington) NV) Note: Pollock Pines to Yerrington driving time approx 3hrs this includes bathroom break in Gardnerville.

PROPOSED SCHEDULE: Sat: Drive to Mason Pass sites (3 hrs total) collecting and then to Ludwig for remainder of day. Approx 4-5 hrs collecting. Sun: Meet at McDonalds again @ 8:30 AM drive to Minnesota Mine (est. 2-3 hrs collecting)

DIRECTIONS TO YERRINGTON: Hwy 50 East to Hwy 207 (Kingsbury Grade) To Hwy 88 left to Hwy 395 in Gardnerville. South on 395 to Holbrook Jct. East on Hwy 208 & then North on Hwy 339 into Yerrington.

VEHICLE REQUIREMENTS: 4X4 not absolutely critical, however last mile to Ludwig and some areas at Minnesota Mine might necessitate some carpooling for those in low clearance.

COLLECTION MATERIAL: See Lists below

TOOLS/EQUIPMENT: Gloves, Rock hammer, small pick or pry bar, small sledge & chisels, Buckets and/or small pack would be helpful for sites somewhat removed from vehicles.

SAFETY CONCERNS: Gloves, boots, goggles, hat (for sun protection), possible rattlesnakes

CLIMATE/WEATHER: Hot, Dry & Dusty during day-cool at night.

REMARKS: Hot Dry climate at High elevation requires lot of fluids. Rattle snakes & rough terrain –suggest you wear good boots & long pants. Sun protection to avoid sunburn & more serious heat related problems. Note: Sunday collecting site adjustable to group wishes.

LUDWIG MINERALS : Azurite, Calcite, Chalcantinite, Chalcedony, Chalcocite, Chrysocolla, Chalcopryrite, Garnet, Gypsum, Limonite, Malachite, Pyrite, Turquoise, Variscite

MASON PASS MINERALS: Azurite, Green Epidote in white granite, Malachite, Selenite

MINNESOTA MINE MINERALS: Chalcopryrite, Hematite, Limonite, Pyrite, Verde Antique

CO-OP MEMBER TRIP TO SEARLES LAKE/TRONA, CALIFORNIA

TRIP LOCATION: Searles Lake/Trona, California

WHEN: October 11th (travel time); October 12th and 13th (on site)

SPONSOR CLUB: El Dorado Co. Mineral & Gem

MEMBER'S GUESTS: ALLOWED

COLLECTION MATERIAL: Pink Halite, Hanksite, Borax and others

LEADERS: Fred Ott Home: (530) 677-8440; Work: (530) 677-5211; Email: fred.ott.b8t5@statefarm.com

MEET: Field trip leaders will be at the SLG&MS Show building in Trona at 8:00 on Saturday morning (one hour prior to the first trip).

PROPOSED SCHEDULE:

Mud Trip(2 ½ hours)leaves at 9:00 am on Saturday
Blow Hole Trip (2 ½ hours) leaves at 2:30 pm on Saturday
Pink Halite Trip (4 ½ hours) departs Sunday at 9:00 am.

DIRECTIONS TO CAMP

5+ miles north of the show building in Trona; no advance registration; register at the camp. See web site (below) for further details.

CAMP INFO/FACILITIES: Suggest using Valley Wells Recreation Area of IMC Chemicals. \$5 per nite at Trona Trailer Park (portable toilets, water, etc.); \$5 per nite at Valley Wells Recreation Area (toilets, water, etc.) plus there are many hotels and motels in the vicinity (see web site).

TOOLS: Varies at each site; generally a collecting bucket, rock hammer, pry bar (pink halite). See web site

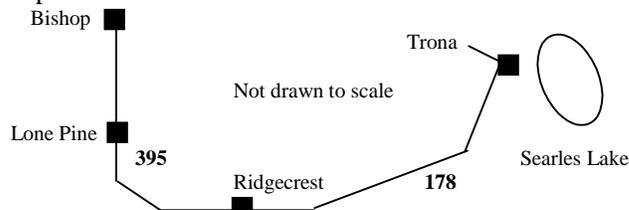
SAFETY CONCERNS: Nothing extraordinary. Trips are very well coordinated by local club.

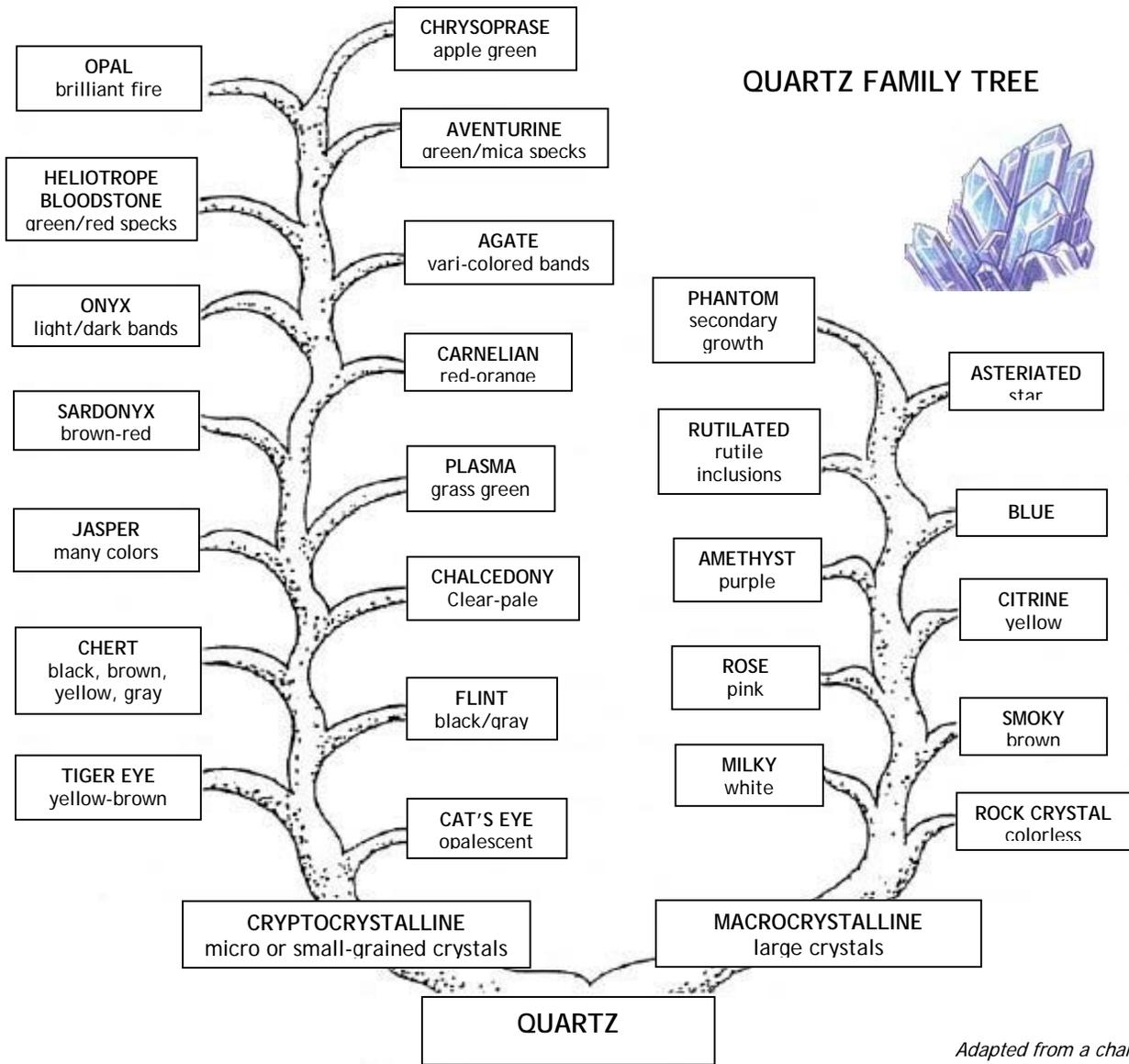
CLIMATE/WEATHER: Should be dry, reasonably warm weather

SPECIAL CLOTHING: *Wear "sacrificial" clothes if you intend to "get into the thick of things"* (see web site)

OTHER REMARKS: Be sure to go to club's phenomenal web site: <http://www1.iwvisp.com/tronagemclub/> for great information regarding the Searles Lake Gem Club and related activities.

FEES: \$5 per car for each of the 2 collecting sites (Mud Trip, Blow Hole); \$5 to \$10 per car at the Pink Halite site, depending upon departure time.





*Adapted from a chart
by Frieda Duffy in
Strata Gem 3/96*

Some Important Rock Forming Minerals

By Lee Olsen

Of the over 2,000 minerals that have been named, only 11 are among the more important of the rock forming minerals. They are the building blocks of rock. Most of the rock forming minerals are compounds of **silicon** and **oxygen**, as the following list of minerals makes clear:

Name and Composition

QUARTZ - SiO_2

FELDSPAR

ORTHOCLASE - KAlSi_3O_8

PLAGIOCLASE - $\text{NaAlSi}_3\text{O}_8$ - $\text{CaAl}_2\text{Si}_2\text{O}_8$

MICA

MUSCOVITE - $\text{KAl}_3\text{Si}_3\text{O}_{10}(\text{OH})_2$

BIOTITE - $\text{K}(\text{Mg,Fe})_3(\text{Al,Fe})\text{Si}_3\text{O}_{10}(\text{OH})_2$

FERROMAGNESIAN MINERALS

HORNBLende - $(\text{Ca,Na})_2(\text{Mg,Fe})_4(\text{Al,Fe})_3\text{Si}_6\text{O}_{22}(\text{O,H})_2$

PYROXENE - $\text{Ca}(\text{Mg,Fe,Al})(\text{Si,Al})_2\text{O}_6$

OLIVINE - $(\text{Fe,Mg})_2\text{SiO}_4$

GYPsUM - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

HALITE - NaCl

CALCITE - CaCO_3

via Strata Gem 11/00

Upcoming Northern California Shows

SEPTEMBER

September 20-21 2002, Redwood City, CA
Sequoia Gem and Mineral Society
Community Activities Bldg.
1400 Roosevelt Ave.
Hours: 10-5 both days
Carol Corden (650) 776-5990

September 21-22, Jackson, CA
Kennedy Mine 9am-5pm
2nd Annual Tailgate Gemboree
Fossils for Fun
contact Debbie Bunn 916-929-6665

September 21-22 2002, Paso Robles, CA
Santa Lucia Rockhounds
Pioneer Museum, 2010 Riverside Ave.
Hours: 10-5 both days
Harry Kuffel (805) 467-3457

September 28 2002, Los Altos, CA
Peninsula Gem & Mineral Society
Rancho Shopping Center
Foothill Expressway and Springer Rd.
Hours: 9:30 - 4:45
Frank Dina (650) 967-3424

September 28-29 2002, Monterey, CA
Carmel Valley Gem & Mineral Society
Monterey Fairgrounds, 2004 Fairgrounds Road
Hours: Sat 10-6 Sun 10-5
Sky Paxton (831) 663-6978 /
sky@familystones.net
Or Janis Rovetti (831) 657-1933

OCTOBER

October 2-13 2002, Fresno, CA
Fresno Gem & Mineral Society
Big Fresno Fair, 1121 S. Chance Avenue
Hours: Mon.- Fri. 11:30-10:30
Hours: Sat. & Sun. until 10:00 p.m.
Violet Wells (559) 673-3908

October 12-13 2002, Antioch, CA
Antioch Lapidary Club
Contra Costa County Fairgrounds
10th & "L" Streets, Antioch
Hours: 10-5 both days
Show Chair: Dave Zabaldano (925) 516-0651
davez@cctrap.com

October 19-20 2002, Santa Rosa CA
Santa Rosa Mineral and Gem Club
"Gem Expo 2002"
Santa Rosa Veterans Bldg, across from
Fairgrounds
Hours: 10-5
Pete Peterson - robert-peterson@webtv.net



**Spend a Weekend in
the Gold Country**
*Buy, Sell or Swap
Rocks, Minerals and Fossils*
At the
**2nd Annual
Tailgate Jamboree**

KENNEDY MINE
in Jackson
September 21 & 22, 2002
Sat. & Sun. 9am to 5pm
Sponsored by Fossils For Fun Society

Fun Activities For All!!

- Dealer & Tailgating Spaces Available
- Chili Chuckwagon • Saturday Rock & Fossil Auction • Saturday Potluck
- Refreshments Available • Sunday Pancake Breakfast • Kennedy Mine Tours Available • Gold Panning • Blacksmith Demonstrations • Tool Sharpening & Tempering • Museum & Gift Shop

For More Information, Contact Dan Brown at
(209) 296-6466 or danbrown@volcano.net

Some "Z" Minerals

Zapatallite - Named for Emiliano Zapata (1879-1919), hero of the Mexican Revolution.

Zellerite - Named for Howard D. Zeller (1922-), U. S. Geological Survey, who found the mineral.

Zemkorite - Named for the Institute of the Earth's Crust (Russian: zemnoy kory = "earth's crust"), Russian Academy of Science, Siberian Branch where the mineral was first studied.

Zeophyllite - From the Greek "to boil" and "a leaf", in allusion to its habit.

Zimbabweite - Named for the country of origin.

Zinc - From the German, "zink."

Zinnwaldite - Named after its locality, at Zinnwald (now Cinovec) - "Ore Mountains", Czechoslovakia.

Zircon - Named from its containing the element, zirconium; which was named from the Arabic, zargun = "gold color."

Znucalite - Named for the composition (Zn, U, Calcium).

Zodacite - Named for Peter Zodac (1894-1967), founder and editor of Rocks and Minerals.

Zoisite - Named after the Austrian scientist, S. Zois (1747-1819).

Zorite - Named from the Russian for "rosy tint of the dawn sky."

Zykaite - Named for Vaclav Zyka (1926-), Czech geochemist.

Reference: Mineralogy Database <http://webmineral.com/>



the
**ROLLIN'
ROCK**

ROSEVILLE ROCK ROLLERS, INC.

MEMBER, CALIFORNIA FEDERATION OF MINERALOGICAL SOCIETIES
MEMBER, AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES
VOL 43 NO. 9 SEPTEMBER 2002

EDUCATIONAL MEETING
JUNIOR MEETING
EXECUTIVE BOARD MEETING

2ND TUESDAY OF EACH MONTH, 7:00 PM
CONTACT KEVIN CHESEBRO
4TH TUESDAY OF EACH MONTH, 7:00 PM

LOCATION: MAIDU COMMUNITY CENTER, MEETING ROOM 1, 1551 MAIDU DR.
ROSEVILLE, CA

EXCEPTIONS: JULY POTLUCK, AUGUST ICE CREAM SOCIAL, DECEMBER DINNER

Changes and locations will be published in the bulletin.

GUESTS AND VISITORS ALWAYS WELCOME

ROSEVILLE ROCK ROLLERS GEM & MINERAL SOCIETY
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P.O. BOX 212
ROSEVILLE
CALIFORNIA 95678

Send exchange bulletins to
above address

SEPTEMBER 2002

