

# MOROKS

MAY 2014

Monrovia Rockhounds Newsletter

P.O. Box 553

Monrovia, CA 91017

Editor – Janie Duncan



## May 2014

SUN	MON	TUE	WED	THU	FRI	SAT
<b>DUES ARE PAST DUE!</b>				1 MOROKS BOARD MTG. @ Janie's 2:15	2	3
4	5	6	7	8	9	10
11 Happy Mother's Day	12	13	14	15 Gen. Mtg. Desert Tortoise Preserve 7 pm	16	17
18	19	20	21	22	23	24
25	26 Memorial Day	27	28	29	30	31

# MOROKS APRIL 2014 NEWSLETTER

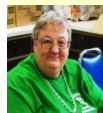


## MONROVIA ROCKHOUNDS

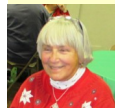


Our Website is [www.moroks.com](http://www.moroks.com)

### ELECTED OFFICERS



PRESIDENT – NEWSLETTER Janie Duncan (626) 358-8157



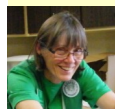
VICE PRESIDENT – Camille Rutkowski (626) 289-2621



SECRETARY – Michele Silcock (626) 357 8425



TREASURER – CUSTODIAN - Jim Lloyd (626) 793-9239



AUDITOR – FELLOWSHIP Louise Stack (626) 966-0350

### CHAIRPERSONS

REPRESENTATIVE – Ray Ritchey (626) 359-1624

REPRESENTATIVE – Colleen Chestnut (626) 443 7662

FEDERATION – Jo Anna Ritchey (626) 359-1624

HISTORIAN – Nancy Hamrick (626) 357-4106

BULLETIN – Janie Duncan (626) 358-8157

CUSTODIAN – Jim Lloyd (626) 793-9239

PICNIC – PHOTO Donald Sneberger (626) 941-6214

SHOW – WEBSITE – Jo Anna Ritchey (626) 359-1624

ROCK DRAWING - Louise Stack (626) 966-0350

FIELD TRIP – Ray Ritchey (626) 359-1624

CARD FELLOWSHIP— Aynn Freeman (626) 303 4343

**Mission Statement :** Our Purpose is to promote popular interest and education in the earth sciences, including geology, mineralogy, paleontology, the lapidary arts, and related subjects; to sponsor and provide means of coordinating the work and efforts of persons and groups with similar interests; and by and through such means to strive toward greater community and international good will and fellowship. We also support promoting and ensuring the right of amateur hobby collecting, recreational rock hunting and the use of public and private lands for educational and recreational purposes related to the earth sciences. We are a registered 501 C 3 non profit organization.

**Affiliations & Accreditations:** The Monrovia Rockhounds is affiliated with the California Federation of Mineralogical Societies, Inc. (CFMS), the American Federation of Mineralogical Societies (AFMS), and the American Lands Access Association (ALAA).

**Membership:** Annual donations are \$15.00 per member and \$5.00 per each additional member at the same address. \$10.00 per name badge is payable on the date of initiation.

**Meetings:** MOROKS meetings are held on the 3<sup>rd</sup> Thursday of each month. At 7:00 pm, in the basement of the United Methodist Church of Monrovia, located at 140 E. Palm Ave. Monrovia CA 91016. The building is on the corner of Ivy & Palm Ave. We use the door where there is handicapped access in the alley on the west side of the building. Do not try to enter from the front of the building. Guests are always welcome at our General Meetings. Please come and share our love of rocks.

**Information:** Monrovia Rock Hounds Inc. was founded August 28<sup>th</sup>, 1957. The club colors are green & white. The club is a non-profit organization dedicated to providing knowledge of the lapidary arts, geology, mineralogy, and other related fields. Members enjoy slide shows, lectures, demonstrations, displays, lapidary classes, our club library as well as field trips for exploration, study and collecting specimens.

We reserve the right to edit all material submitted for publication.

If you have any submissions for this newsletter or need to contact the editor Janie Duncan please email her at [janieduncan@altrionet.com](mailto:janieduncan@altrionet.com)

Monrovia  
Rockhounds  
May Birthdays

Connie Rieman  
Jim Lloyd  
Pamela Osburn  
Kendra Fitzgerald



**2014 MULTI-CLUB FIELD TRIP SCHEDULE** Distributed to the representatives of the Del Air – Glendora -- Monrovia -- North Orange County -- Pasadena -- Whittier Gem Mineral and Lapidary Clubs

MAY 17 : WRIGHTWOOD - Actinolite and visits to sites along the San Andreas Fault

JUNE: CERRO GORDO MINE - Historical Ghost Town and minerals associated with the mining of silver, lead, zinc.

JULY 12 : PALOS VERDES -: Glaucophane, barite and agate minerals.

AUGUST 2 : LOS OLIVOS to collect Serpentine, Cinnabar and fossilized whale bone.

SEPTEMBER 20 & 21 : JALAMA BEACH - Agate, jasper, petrified whale bone, travertine onyx, Marcasite and fossils.

OCTOBER 11 : SEARLES LAKE CLUB SHOW & field trips: Pink halite crystals & borax minerals.

NOVEMBER 1 & 2 : WHITTIER CLAIM AREA - honey onyx, agate, jasper, palm root, etc.

NOVEMBER 28 - 30 : WILEY WELL AREA - Geodes, Agates and other good stuff.

DECEMBER 6 : HIMALAYA MINE TOURMALINES - Dig your own pink and green California tourmalines from the world's most famous tourmaline mine, the near beautiful Lake Henshaw in San Diego County, 20 miles east of Pala. Over 200,000 lbs. produced since 1898 including quartz crystals, lepidolite, topaz, morganite, and other pegmatite minerals.

JANUARY 24 & 25 : QUARTZSITE ARIZONA SHOWS

For up-to-date information on these field trips and how to joining the trip please see your club's field trip leader or call Joe Goetz at (626)-622-9420.



*Janie Duncan*

### PREZ SEZ

The program in April on fossils of the San Gabriel Valley by Keith Krezweic inspired Michele and I to go looking for the fossil spot he told us about. We thought that if it worked out we could go there on a local fieldtrip. After going many different direction we finally found the spot only to find out that the whole area was fenced in and they had huge equipment working there and they would not let us in. We found all the rock between the curb and the fence and found a few fish scale fossils but there is really nothing more to be had there. We did have fun and ended up at the Cal Poly Farm store for a fun day!



*Camille Rutkowski*

### VICE PREZ SEZ

The April program on local fossils was very interesting. I am looking forward to the May program on the Desert Tortoise Preserve. I think all things of nature interwoven and it is fun to learn about all aspects of nature. The June program on African opal it looks very interesting. Please come and enjoy learning about rocks with us.

April 3rd

**MONROVIA ROCKHOUNDS BOARD MEETING**

**President:** *Janie Duncan* called the meeting to order at 2:35 PM.

**Vice President:** *Camille Rutkowski*. April is the Silent auction. May is Mary Logan from the Desert Tortoise Preserve. June is Gabriel Mosesson on Welo Opals from Ethiopia.

**Secretary:** *Michele Silcock* The minutes were approved as corrected in the bulletin. There were quite a few mistakes.

**Representative:** *Ray Ritchey* no report **Representative:** *Colleen Chestnut* was absent

**Treasurer:** Jim Lloyd. We have 20 paid members.

**Auditor:** *Louise Stack* no report.

**Website:** *Jo Anna Ritchey* It is up to date.

**Photographer:** Donald Sneberger absent

**Federation:** *Jo Anna Ritchey* Ray reported Pasadena club plans to host the 2014 CFMS Show.& Convention at the Pomona fairground building 5 by the Sheraton Hotel May 31-June 2 Janie has been asked to do a children's table. Ray, Becky, Jo Anna, Louise William are all volunteering. Janie has forms to pre order parking and entrance tickets. Jo Anna, Michele and Janie had made reservations for the Sheraton Hotel by the Fairplex.

**Fellowship:** *Louise Stack* Ray is undergoing a series of tests. Donald is sick.

**Field trip:** We need a field trip Chairman. Any volunteers? Janie and Michele plan to go look for the fossil spot.

**Bulletin:** *Janie Duncan* no report

**Historian:** *Nancy Hamrick* was absent

**Picnic:** *Donald Sneberger* no report.

**Great Rock Drawing:** *Louise Stack* no drawing for April.

**Custodian:** *Jim Lloyd* no report.

**MOROKS Fun Day** No report.

**Refreshments:** Judy and Pam are doing April.

**Show:** *Jo Anna* has assigned sub chairmen for show. Michele will do the Main Prizes, Janie will do Kids Kitchen and printing. Louise Stack will do Volunteers. Aynn Freeman will do the Treasure Wheel. We still need someone for publicity, Silent Auction and Security

**Old Business:** *Janie Duncan*

**New Business:** *Janie Duncan*

1. We sent a letter back to the Department of Justice with what they asked for but no registration. listed as we are not a trust.
2. We agreed to accept the Budget from last year and will vote at the next meeting.
3. Janie has been asked to do a booth on Olvera Street the last Sat. in April.
4. Janie will find out what size Scholarship we gave last year and contact Monrovia High School about this year.
5. We discussed sponsoring a gemstone at the Museum of Natural History. Janie will look into it.

**Janie Duncan** Adjourned the meeting at 4:30 pm



**Bench Tips by Brad Smith** More BenchTips by Brad Smith are at FaceBook [facebook.com/BenchTips](http://facebook.com/BenchTips) or at [groups.yahoo.com/group/](http://groups.yahoo.com/group/) Get all 101 of Brad's bench tips in "Bench Tips for Jewelry Making" on Amazon

**QUENCHING** Some jewelers drop the hot piece from soldering directly into the pickle. Do you hear that little hiss? The hot piece sends small droplets of acid into the air. This can rust nearby tools and can't be all that good to breathe either. To avoid this I quench in water. A coffee cup of water at the solder station lets me cool a soldered piece before dumping it into the pickle. It's also useful for annealing metals and for cooling off tweezers.

April 17th

**MONROVIA ROCKHOUNDS GENERAL MEETING**

**President:** *Janie Duncan* called the meeting to order at 7:10 PM.

**Vice President:** *Camille Rutkowski* Tonight is the Silent auction. May is Mary Logan from the Desert Tortoise Preserve. June is Gabriel Mosesson on Welo Opals from Ethiopia.

**Secretary:** *Michele Silcock* was absent. The minutes were approved as printed in the bulletin.

**Representative:** *Ray Ritchey* was absent

**Representative:** *Colleen Chestnut* was absent

**Treasurer:** *Jim Lloyd*. We have 22 paid members. ***Dues are due.***

**Auditor** *Louise Stack*: no report.

**Website:** *Jo Anna Ritchey* was absent

**Federation:** *Jo Anna Ritchey* was absent. Janie reported Pasadena club is hosting the 2014 CFMS Show & convention at the Pomona fairground Building 5 by the Sheraton Hotel May 30-June 1 Janie has been asked to do a children's table. Ray, Ralph, becky William and Jo Anna will be there helping. Janie donated 50 viles of gold. They will need volunteers.

**Fellowship:** *Louise Stack* We had 3 guests present. Judy Romaine who turned in her membership application and Francis and Kevin King.

**Photographer:** Donald Sneberger took pictures.

**MOROKS Fun Day:**

**Field trip:** Janie and Michele went to look for the fossil site only to find it all fenced off.

**Bulletin:** *Janie Duncan* no report

**Historian:** *Nancy Hamrick* no report

**Picnic:** *Donald Sneberger* no report.

**Great Rock Drawing:** *Louise Stack* No drawing this month but we have a yellow calcite sphere next month.

**Custodian:** *Jim Lloyd* no report.

**Refreshments:** Judy and Pam brought them tonight. Louise Stack will do May.

**Old Business:** *Janie Duncan*

1. Janie is planning to do a kids booth for Olvera Street the last Saturday in April. Does anyone want to help?
2. Janie and Jim have sent the letter replying to the Dept. of Justice with what they asked for but no registration. We will see what happens.

**New Business:** *Janie Duncan*

1. We discussed donated a mineral to the Museum of Natural History. Janie will check into the cost and what is available.
2. We voted to accept the budget the same as last year. It was approved.
3. We voted to give the same \$500.00 scholarship this to a Monrovia High School Student in Earth Sciences.

**Janie Duncan** Adjourned the meeting at 7:30pm

**Boy, 12, unearths 5.16-carat diamond at Arkansas state park** Reported by Fox News While on vacation with his family at Arkansas' Crater of Diamonds State Park Michael Dettlaff found the honey brown diamond on July 31 after searching for less than 10 minutes - park officials said Saturday. Michael found the gem in an area of the park where the 15.33-carat Star of Arkansas diamond was found in 1956. His father was still renting mining equipment when he discovered the diamond and it is the 27th largest diamond found by a park visitor since the site became a state park in 1972. The largest diamond ever discovered in the United States was unearthed at the site in 1924 and weighed 40.23 carats.

**May Program is on the Desert Tortoise Preserve**

<http://www.amlands.org> for more information on what you can do to protect our rock sites.







**Helenite** This brilliant green stone is created using the volcanic ash and rock dust resulting from the eruption of Mt St Helens on May 18, 1980. The force of this eruption blew thirteen hundred feet of earth from the top of the mountain, sending a cloud of ash more than 60,000 feet into the air, leaving a mile wide crater behind. The Mount St Helen's eruption was one of the most deadly and costly eruptions recorded to date.

Helenite was discovered accidentally when workers using acetylene torches to salvage destroyed equipment discovered that the rock dust was melting and forming greenish shiny substance. The volcanic rock, with heavy concentrations of silica, aluminum and iron with traces of chromium and copper was melting into a form of obsidianite. It did not take long to bring this to a point where the material was being created in a laboratory under sterile conditions and extremely high temperatures. The brilliant green material is then cut and faceted by skilled craftsmen. The Emerald colored stone has excellent sparkle and fair durability. The brilliant green color is the most recognized and appreciated of the possible color variations possible. Through adding other trace minerals the color can be produced in a Swiss Blue color that is also very attractive. Via Pioneer Jewelers in Sattle WA.

Helenite is not a "gemstone"....it is glass. If you Google "Helenite" you can read for yourself that Helenite has the exact compounds as glass. Know what you are buying., thus the cheap price QVC is offering this jewelry. Helenite is simply glass. Via QVC blog

Helenite, also known as Mount St. Helens obsidian, emerald obsidianite, and ruby obsidianite, is a synthetic gemstone made from the fused volcanic rock dust from Mount St. Helens. Helenite was made from the fusing of rock emitted from Mt. St. Helens during the May 1980 eruption. In spite of its nicknames, helenite is synthetic glass and not obsidian. Via QVC blog



## RUBIES Via swarm

Besides being the birthstone for July, ruby is often used as an engagement alternative to the diamond. If worn on the left hand it's believed to bring the wearer good luck. It is also the gift of choice for the 15th and 40th wedding anniversaries.

The ruby is a rich, red color. Its name is derived from the Latin, "ruber", meaning red. The ruby is a variety of the mineral, Corundum. In other colors, Corundum crystals are considered sapphires. Rubies range in hues from orange-red to purple-red. The purer in red color they are, the more prized they are. The red in a ruby is derived from the element chromium.

Rubies can be found the world over. The best samples of these gemstones hail from Mogok Valley in Burma. Other beautiful ruby specimens can be found in Thailand, India, Madagascar, Zimbabwe, Afghanistan, Pakistan, Sri Lanka, Kenya, Tanzania, Kampuchea, and parts of the United States.

Ruby mining dates back two and a half millennia. This makes the ruby an ancient gemstone. It's even mentioned in the Bible. For example, in the Book of Exodus, a ruby, which was referred to as the sardius at the time, appeared in Aaron's breastplate, along with other world-renowned gems.

The ruby's red glow, according to legends, comes from an internal - and eternal - flame. This makes the ruby a wonderful gift to give a loved one. It symbolizes the durability and everlasting nature of romantic, passionate love. In ancient societies, this gem was also believed to be a drop of blood from Mother Nature's very heart.



Submitted by Holly Barrington a former MOROKS who has moved to Texas.

I found this photo in one of Mom's old albums. This is me in around 1954 on a Seattle kids' TV show. I was talking to Roy Rodgers, standing in front of the TV I'd won in a city-wide poster contest. The poster subject: always hold onto the pole while riding the bus. I was just 6, but prevailed against much older children, so this was a coup. Bear in mind this was the early '50's, so no one bothered to take or publish a photo of the poster itself. The whole experience was dreamlike for me; I wasn't used to talking on the phone, much less with someone like Roy Rodgers!

**KEEPING A SHARP MIND**

As we slowly move through retirement, we need to keep ourselves occupied with small projects..... like this guy. Submitted by Jim Lloyd



I know I saw it too. No safety glasses or hearing protection. And I caught something else that is important: He has no gloves on. You would think he would know better!

**Dinosaurs replicas being on the Hudson River to the 1964 World's Fair in New York City**



**A permanent stable cavity caused by the detonation on an underground nuclear test in 1961.**





## When Diamonds Are Dirt Cheap, Will They Still Dazzle?

**By Robert H. Frank** *New York Times* article April 19, 2014 **economics professor at the Johnson Graduate School of Management at Cornell University.**

In many domains, perhaps even including signed baseballs, it's becoming possible to produce essentially perfect replicas of once rare and expensive things. That's true, for example, of diamonds and paintings. Renowned art originals will always be scarce, and so will high-quality mined diamonds, at least while De Beers holds sway. But what will happen to the lofty prices of such goods if there is an inexhaustible supply of inexpensive perfect copies? Economic reasoning can help answer this question. It can also shed light on how new technologies might alter traditional ways in which people demonstrate their wealth to others, or might change what society embraces as tokens of commitment and other gifts. First, some background about the new technologies. For many decades, the best diamond facsimile was cubic zirconia. It is similar to a diamond in brilliance and clarity but it isn't as hard as a diamond and could never fool an experienced jeweler. Recently, though, new processes have made it possible to culture diamonds that are visually identical to mined ones. One such process, chemical vapor deposition, produces diamonds with a heated mixture of hydrogen and methane in a chamber at very low pressures. Writing for *Smithsonian Magazine* shortly after the technique was developed, Ulrich Boser described having taken a sample stone to a respected diamond merchant in downtown Boston, who inspected it carefully under a jeweler's loupe. After pronouncing it a "nice stone" with "excellent color" and no visible imperfections, the jeweler asked where it came from. When Mr. Boser said it had been cultured in a lab 20 miles away, the astonished merchant inspected it again. "There's no way to tell that it's lab created," he said. In significant ways, the new cultured stones are actually better than many mined diamonds. The Gemological Institute of America classifies them as colorless or near colorless Type IIa stones, a premium category that includes only 2 percent of natural diamonds. The new stones also sidestep environmental and human-rights concerns that have plagued mined diamonds in recent years. Progress has been almost as striking in the duplication of oil paintings. Chemical and spectral analysis of original works can now identify paint compounds and hues precisely. A Cornell University electrical and computer engineering professor, C. Richard Johnson Jr., and his collaborators have been developing ways to identify an artist's signature brush stroke style by applying statistical modeling to 23 original works by Vincent van Gogh. To date, their efforts have been used mostly to help detect forgeries, but they will inevitably serve future copiers as well. Robots can already produce near-perfect copies of simple paintings. Skilled forgers have been fooling experts for centuries, but going forward, those artisans won't keep pace with smart machines and 3-D printing. Not even perfect replicas, however, will extinguish strong preferences for original paintings and mined diamonds. In the short run, price premiums for such goods are likely to persist, as collectors scramble for certificates of authenticity. Longer term, those premiums may prove fragile. Wearing large diamonds, for example, will no longer be likely to signal significant wealth or attract admiring glances. Some people will ask, why not buy cultured stones and spend the difference on things that actually matter — or that are, at least, truly scarce? No matter how many new skyscrapers are jammed into the city, there will only be so many penthouse apartments with sweeping views of Central Park. When some of the superrich start using money formerly spent on diamonds to bid for those apartments, other bidders will feel pressure to follow suit. Prices of famous paintings will be more stubborn. But replication technologies will be applied not just to artworks but also to certificates of authenticity. Even billionaires would be reluctant to pay \$100 million for a Picasso of uncertain provenance. Tumbling prices will transform many longstanding social customs. An engagement diamond, for instance, will lose its power as a token of commitment once flawless two-carat stones can be had for only \$25. Replication technologies also raise philosophical questions about where value resides. How heavily, for example, should museums invest in ownership of famous works? (As noted in my last column, this question looms large in Detroit's current bankruptcy proceedings.) Perfect replicas would enable local museum goers to see the Mona Lisa without having to cross the Atlantic. But would the experience of seeing the painting — a perfect copy or even the original somewhere other than the Louvre — be rendered less special? Perfect replicas would enable even the poorest fans to own autographed baseballs. Original or a copy? No one would know the difference, not even an expert. But would a 10-year-old be just as delighted to receive one for his birthday as I once would have been? Technology won't eliminate our need for suitable gifts and tokens of commitment, of course. And such things will still need to be both intrinsically pleasing and genuinely scarce. But technology will change where those qualities reside.

*Submitted by Camille Rutkowski This article was shortened by editor Janie Duncan*





Photos by Donald Sneberger

# MOROKS PICTURE PAGE

## April Silent Auction & March Fieldtrip to San Pedro

Judy Romaine new member at the next meeting.





## Go see a CFMS Show this May!

**May 2 - 4: BISHOP, CA** Lone Pine Gem & Mineral Society Bishop Fairgrounds Sierra Street & Fair Drive Hours: Fri 5 - 10; Sat 9 - 7; Sun 10 - 3 Contact: Steve Mobley, (760) 793-6025

**May 3 - 4: PASO ROBLES, CA** Santa Lucia Rockhounds Pioneer Park & Museum 2010 Riverside Avenue Hours: 9 - 5 daily Kim Noyes, (805) 610-0603 Email: kimnoyes@gmail.com Website: www.slrockhounds.org

**May 3 - 4: YUCAIPA, CA** Yucaipa Valley Gem & Mineral Society Scherer Senior Center 12202 First Street Hours: Sat 10 - 6, Sun 10 - 4 Contact: Lee Peterson, (909) 794-0731 Website: www.yvgms.org/wiki

**May 3 - 4: JACKSON, CA** Amador County Gem & Mineral Society Kennedy Mine 12594 Kennedy Mine Rd (off Hwys 49/88) Hours: 10 - 4 daily Email: blackwolf@volcano.net

**May 3 - 4: ANAHEIM, CA** Searchers Gem & Mineral Society Brookhurst Community Center 2271 W. Crescent Avenue Hours: Sat 10 - 5; Sun 10 - 4:30 Contact: Robert & Sharon Burson, (562) 860 5938; cell (562) 706-2054 Email: bursonrocks@verizon.net Website: www.searchersrocks.

**May 10 - 11: LANCASTER, CA** Antelope Gem & Mineral Society Lancaster High School 44701 - 32nd Street West Hours: 9 - 5 daily Contact: CJ Quitoriano, (661) 209-9092

**May 10 - 11: RENO, NV** Reno Gem & Mineral Society Reno-Sparks Livestock Event Center 1350 N. Wells Avenue Hours: Sat 10 - 5; Sun 10 - 4 Contact: Steve Norman, (775) 358-7322, cell (775) 560-4782 Email: snorm11@hotmail.com Website: www.renorockhounds.com

**May 16-18 Santa Anna** West Coast Gem & Mineral Show-Spring Holiday Inn Orange County Airport 2726 S. Grand Ave, Santa Ana, CA 92705 (Take 55 Fwy exit 8 for Dyer Rd tp S. Grand Ave) 80 Top Quality Dealers! Show hours: Fri & Sat 10 - 6, Sun 10 - 5 Martin Zinn, LLC

**May 30 - June 1 Pomona** CA LA Fairplex, **2014 CFMS Show and Conference** 1101 W. McKinley Ave to be hosted by the Pasadena Lapidary Society Show Website: www.cfms2014show.com

**May 31 - June 1: ESCONDIDO, CA** Palomar Gem & Mineral Club California Center for the Arts 1340 N. Escondido Blvd. Hours: Sat 10 - 5; Sun 10 - 4 Contact: Michael Bagstad, (760) 489-1897 Email: gemshow@palomargem.org Website: www.palomargem.org

*West Coast*

## GEM & MINERAL SHOW - SPRING

**MAY 16 - 18, 2014**

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**Santa Ana, CA 92705**

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Colorado Topaz - Photo by Jeff Scovil©

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The Pasadena Lapidary Society

Presents The

2014 Annual Statewide Show & Convention

of the

CALIFORNIA FEDERATION OF MINERALOGICAL SOCIETIES

**"California's Gem & Mineral Bounty"**

**FAIRPLEX, Building 5, Pomona, CA**

**May 30, 31 & June 1, 2014**

**Friday & Saturday, 10 AM to 5 PM**

**Sunday, 10 AM to 4 PM**

**Admission:**

Adults \$5, 3-day pass \$12

Seniors 60+ & Military \$4,

3-day pass \$10

Juniors (13-17) \$3, 3-day pass \$7

Kids 12 & Under—Free w/paid Adult

Gems, Minerals, Beads, Rocks,

Fossils, Jewelry, Dealers,

Exhibits, Speakers, Demos,

Raffles, Silent Auctions,

Kids Activities!



Fairplex, Building 5, 1101 McKinley Ave., Pomona, CA.

Parking in Lot 3 for \$10

For more information contact—626 260-7239