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OCTOBER MEETING WILL NOT BE HELD AT THE ANDERSON  
GRANGE HALL, BUT WILL BE AT THE ANDERSON FAIRGROUNDS!  
See you there

OCTOBER 2011

## SHASTA GEM & MINERAL SOCIETY, INC.

Shasta Gem & Mineral Society, Inc                      ROC TOC                      2011

### Elected Officers

President  
 Steve Puderbaugh..... 604-2951  
 Vice President  
 Sara Fenske..... 528-2651  
 Secretary  
 Phyllis Szynter .....241-2010  
 Treasurer  
 Sandra Park..... 246-9822  
 Rochelle Ohlson, Assistant 221-8050

### Board of Directors

Marianne Sweetwood..... 549-4598  
 Zeke Breazeale..... 222-2191  
 Bill Doyle..... 549-3039  
 Junior Advisor & Work Shop Advisor:  
 Rochelle Ohlson... 221-8050  
 Assistant Junior & Shop Advisor  
 Steve Szynter ..... 241-2010

### Appointed Committees

Programs  
 Sara Fenske..... 528-2651  
 Field Trips  
 Jim Foster..... 347-1819  
 Sara Fenske ..... 528-2651  
 Properties  
 Bill Seward ..... 365-8641  
 Publicity  
 Kelly O'Leary ..... 221-7281  
 Show Chairman  
 Steve Puderbaugh  
 Assistant Show Chairman .....604-2051  
 Bill Seward.....365-8641  
 Dealer Chairman  
 Bill Seward ..... 365-8641  
 Membership  
 Gretta Seward..... 365-8641  
 Chaplin  
 Jim Willis ..... .222-2331

Sunshine  
 Jim Willis.....222-2331  
 Scholarship  
 Marianne Sweetwood..... 549-4598  
 Raffle  
 Jim & Pat Foster ..... 347-1819  
 Hospitality  
 Jan Stone ..... 549-077  
 Roc Toc  
 Gretta Seward ..... 365-8641  
 Coffee  
 Jan Stone ..... 549-4077  
 Superior Cal.  
 Steve Puderbaugh ... 604-2951  
 CFMS Directors  
 Bob & Jeane Stultz ..... 243-3024  
 Kitchen: ALL MEMBERS  
 Parliamentarian  
 John Ellwanger ..... 275-1055

**Board Meeting:** Next to last Monday of each month, location to be determined by the Board.  
**Regular Meeting:** The second Friday of each month, at the Anderson Grange Hall, south of the Redding Airport on Figtree Lane. Potluck dinner starts at 6:30, meeting after approx at 7:30.  
**Dues:** \$15.00 each adult per year, junior membership is \$8.00 each per year paid to the membership chairman. Bulletins for life members are \$5.00 membership chairman.  
**SGMS** is a member of the Superior Federation of the Mineralogical Societies and the Superior California Association. The SGMS is a non-profit organization dedicated to increasing knowledge of gem, minerals and the lapidary arts programs through reading, classes and field trips to perpetuate a deep friendship of fellow rock hounds. Permission is given for use of the material printed in the ROC TOC, provided credit is given. Exchange bulletins are welcome and can be mailed to Gretta Seward 20361 River Valley Dr., Anderson, California 96007-8406.  
 Shasta Gem & Mineral Society Club workshop is located at the "Marx House", 6471 Airport Road, Anderson, CA 96007.    [www.shastagemandmineral.com](http://www.shastagemandmineral.com)

## OCTOBER BIRTHDAYS

All your fellow club members wish you a very  
Happy Birthday!

BIRTHSTONE: OPAL  
FLOWER: CALENDULA

October's child is born for woe,  
And life's vicissitudes must know;  
But lay an opal on her breast,  
And hope will lull those woes to rest.  
Avon

## THE OPAL

Opal is the most famous and precious of the silica gems. It is a non-crystalline form of quartz similar to chalcedony, but unlike chalcedony opal contains varying amounts of water loosely bound within its molecular structure. Differences in the internal arrangement of the water molecules are what distinguish precious opal (the gem form) from common opal, which is usually white or colorless and displays none of the brilliant flashes of light that characterize the gem stone.

In the gemstone the water molecules consist of an array of ultra-microscope spheres forming layers within the stone, which act as a three dimensional diffraction grating of extreme fineness. This is somewhat analogous to the formation of rainbows against a cloudy sky. Precious opal is classified by its body color into four groups; black, white, fire and water (jelly) opal.

Opal is deposited at relatively low temperatures from circulating waters as nodules, stalactites masses, vein lets and encrustations in nearly all kinds of rocks. It is most common in volcanic rocks, especially in areas of hot spring activity.

The finest gem opals have been obtained from Queensland and New South Wales in Australia. The Lightning Ridge Field is famous for superb black stones. Deposits of white opal in Japan, fire opal in Mexico and Honduras and several varieties of precious opal in India, New Zealand and western United States also have yielded much gem material. Most of the precious opal marketed in ancient times was obtained from occurrences in Czechoslovakia.

Most precious opals are finished in cabochon cut, as the position of the fire layers is irregular and does not lend itself to faceting. Loss of water due to heat

Undercutting while working the stone will cause a network of fine internal cracks called crazing to develop. Thus opals must be worked carefully or the whole fire layer could be lost.

Precious opal frequently fills quite thin fissures and is therefore often cut into thin flat stones. Sometimes these are so thin that they would soon break and wear, and they are therefore cemented to thicker pieces of common opal, onyx or even black glass. The resulting two-layer sandwich is called a doublet. However, even here the top layer is still exposed to wear. In recent years this problem has been solved by the addition of an upper protective clear quartz cabochon, which is cemented to the opal layer; thus creating the triplet. Triplets are most commonly used as ring stones.

Black opal is the most expensive and fine gems may bring more than \$1,000 per carat. Fine white opals may sell for hundreds of dollars per carat. Doublets and triplets are sold by the stone, rather than weight, and are usually cut to standard dimensions. Perhaps the largest stone ever found, one of 203 carats was presented to Queen Elizabeth 11 by the South Australian Government in 1954; the Andamooka opal.

The superstition that it is unlucky to be opal dies hard, but it has not depressed the value of stones of good quality. Until quite recently it has been impossible to imitate opal at all convincingly, but recent reports from Australia state that a synthesis has been successful, and that commercial production is feasible.

Dave Olson Pseudomorph 9/92

**SHASTA GEM & MINERAL SOCIETY ANNUAL SHOW SCHEDULE:** Our show is scheduled October 15 & 16<sup>th</sup>, 2011. We will start setting up Friday, October 14<sup>th</sup> at 8 am. We need help from all available members. Setting up should take no more than three hours.

The show hours for Saturday are 9 am to 5 pm, and Sunday is from 10 am to 4 pm.

After the show Sunday, we will take down the tables and display cases and carefully place them in the club trailer, and then clean the building. Help from all members again will be needed. Cleaning should take approximately two hours.

**DISPLAY:** If you have not been contacted and would like to put in a display at the show, please call Steve Puderbaugh at 365-4000.

**DURING THE SHOW** ten to fifteen members will be needed throughout the two days. Two members will be needed taking tickets, two at the silent auction table, two at the grab bag table and as many as possible doing security during the show. Extra people should plan on being available to give everyone a lunch break.

**SILENT AUCTION MATERIAL** is more than welcome. If you have any material you would like to donate, it would be greatly appreciated. If you are unable to bring the material to the show, talk to a member and we will gladly arrange for it to be picked up. Please, only donate good material. Thank You!

**JUNIORS** were asked to bring their pictures along with the items they will be displaying at the gem show. The juniors are asking for any small items that you might have for their wheel.

**BUSY TIME:** There are a lot of things happening this time of year, so be sure to come to our meeting. If you have not already volunteered to help at the show, it is not too late. Please call one of the officers and give them your name. **YOUR HELP IS NEEDED! WITH YOUR HELP, THIS WILL BE A WONDERFUL SHOW.**

**IMPORTANT INFORMATION:** Previous years, we have not had enough members showing up to help put the show on. This causes a hardship on those that were there. As previously stated. There has to be four people working at the front table. Two members greeting the public and handing out the hourly door prize and selling the scholarship tickets, two working at the silent auction table, and as many possible should be doing security. The people that are there would appreciate a lunch break. If we do not have enough people working this year, we will have to do away with the silent auction. The shows pay the rent for the Grange Hall, insurance for our meetings and field trips. It also helps purchase material for the workshop.

I realize some of this information has been repeated, but I am just trying to make a point that **YOUR HELP IS NEEDED.**

**CHANGE OF MEETING PLACE:** The October meeting will be held at the Anderson Fairgrounds, and all members are to meet there and bring all your wonderful potluck dishes. There will be no meeting at the Grange Hall this month.

**DINNER** will be served Friday night to all club members, displayers, and demonstrators. The dinner will start at approximately 6 pm.

**WELCOME TO NEW MEMBERS:** We would like to welcome Rodney Rogers, Stace Hallstrom, Kyle Reitan, Terry & Ian Walker to the SG&M Club. Terry and Ian are previous members. We hope you will find being a member a rewarding experience and hope you will feel free to be an active member; starting with this show.

The Roc Toc is our monthly newsletter and we mail them to the members that do not have a computer. For your copy please access [www.shastagemandmineral.com](http://www.shastagemandmineral.com)

When you see some one that you do not recognize, please introduce yourself and make them feel welcome.

**DISPLAY:** If you have not been contacted and would like to put in a display, please call Steve Puderbaugh at 365-4000.

**DONATIONS WELCOME;** Please bring small toys, rocks, slabs and cabs for the junior's silent auction. Your donations will be most appreciated.

#### IN REMEMBRANCE

Jim Pryor passed away at the age 86 on Thursday, October 22, 2011 after many months of illness. Jim liked going on our club outings, picnics, and loved to visit with all his many friends. He especially enjoyed his field trips to the desert.

Jim had been a member of SG&M for many years; you could always depend on Jim and Joanne having their rock tumblers working long before the time for the next show getting their rocks ready for the grab bags. He can be remembered also for the many saw blades that he took care of for his friends. He was a true Rockhound, and the best friend you would want.

We would like to send Joanne, her Daughter Tobi Swanson, husband Bob, Granddaughter Rebecch Willburn, and her husband Kurt our most sincere condolences.

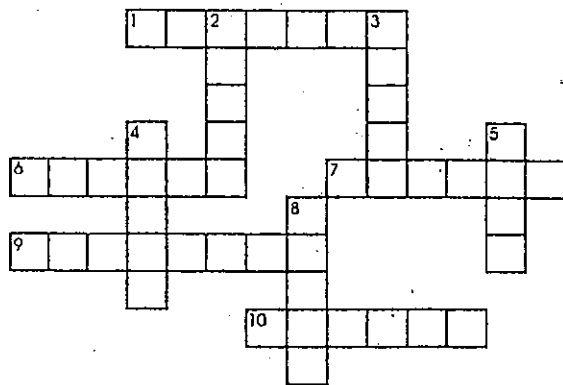
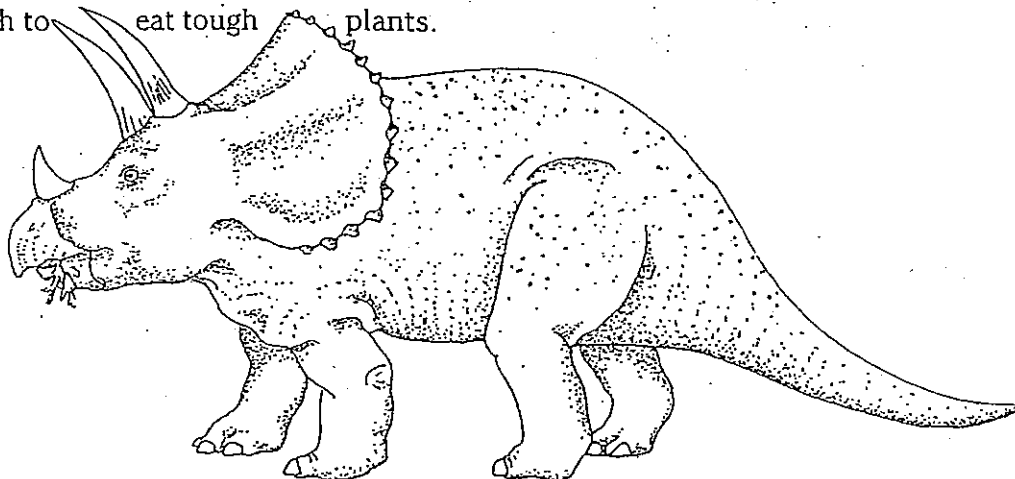
A Full Honors Ceremony will be held October 30<sup>th</sup> at 12:30 p.m. at the Veterans Chapel in Igo. In lieu of flowers, memorial contributions may be made to the Kidney Foundation, the American Heart Association or To the Mercy Hospice Center. We will miss you Jim!

# JUNIOR PAGE

## Chasmosaurus and Triceratops

CHASMOSAURUS (KAZ-mo-SORE-us) had two long horns over its eyes and a shorter horn on its snout. It was one of the first horned dinosaurs with a long frill. Fringed with spikes, the frill was not solid, but had two large openings, where huge jaw muscles may have been attached. Chasmosaurus' beak and jaws were strong enough to eat tough plants.

TRICERATOPS (try-SER-a-tops) was one of the largest horned dinosaurs. It was more than eleven feet high at the shoulder. Triceratops' name means "three-horned face." It had one short horn on its snout and two sharp, four-foot-long horns over its eyes. Perhaps this dinosaur charged its enemies at full speed, with horns lowered.



**ACROSS**

- 1. These may have been attached to chasmosaurus' frill
- 6. Triceratops was one of the largest \_\_\_\_\_ dinosaurs
- 7. Chasmosaurus' frill was lined with \_\_\_\_\_
- 9. Triceratops stood eleven feet high, at the \_\_\_\_\_
- 10. Many armored dinosaurs ate these

**DOWN**

- 2. Chasmosaurus' frill was not \_\_\_\_\_
- 3. Horns are usually \_\_\_\_\_
- 4. A dinosaur's nose
- 5. Birds have one, and some dinosaurs had one, too
- 8. Horned dinosaurs usually had one of these

Dear ROCKY,

I know that Oregon is known for it's BEACHES, but where are all the agates I hear about? I can never seem to find but a few. Where are they hiding?

Signed Beach Bum

Dear Beach Bum,

There are a few good spots along the Oregon Coast to find not only agates, but also petrified wood and fossils. Agates come from the erosion of the cliffs along the beaches and rivers. They are washed out and then polished by the ocean over time. Agates are best found after storms. Therefore, they are most likely to be found December to March when they are exposed. During the summer months will find them hidden deep beneath the sand. Next time you drive down the coast, explore these sites.

CANYON BEACH TO CAPE FALCON; ACROSS THE AREA BY WAY OF Areadoa Beach, Toloyana Beach, Hug Point, Cove Beach and Sand Beach.

TILLAMOOK BAY :along Bay Ocean Rd look for agate, jasper and marine fossils.

NETARTS and OCEANSIDE: between them is a gravel deposit. You may find agate, jasper, and even some sagenite, zeolite and garnet.

LINCOLN-CITY: along with the usual agates, jasper, and garnets, watch for fossilized coral.

Agates are also found at NEWPORT (north jetty) under the bridge. WALPORT BAY, along the north side.

And some of the largest can be found at

CAPE BLANCO from Sixes River to Port Orford.

COOS BAY beaches are known for petrified wood.

CAPE ARAGO has a nice show of flower jasper, petrified wood and banded agate especially the inlets facing north and south.

SEVEN DEVILS WAYSIDE has agatized myrtle wood, banded agate and flower jasper.

OTTER ROCK TO NEWPORT-BEVERLY BEACH, MOOLACK BEACH are good for clam, mollusk and fossilized snail shells. Don't forget to check along the creeks.

YACHATS TO FLORENCE: these are some of the best rock hunting areas because 4 creeks empty into them. Cummins, Tenmile, Big, and China creeks. Look for these parks: Neptune, Stonfield, Roosevelt, Agate Point and Washburne Beach. Heare you will find colorful agates, agates with inclusions, petrified wood, chalcedony, bloodstone and jasper.

--via Gems of the Rogue--



## TAKE A ROCK TO WORK

BY Margaret Sawatsky

The point of this story is that the world is filled with "almost" rockhounds. Try putting a small specimen on your desk - you'll be amazed at the results! If your work doesn't include a desk or a wall for information, tuck a visually interesting rock in your pocket, and toss it from hand to hand over coffee, or wherever. Get those "almost" rockhounds tipped over the edge of actually doing something about their tentative interest. Invite them to a meeting. The aim, of course, is to recruit new members!

Condensed, via THE ROCK VEIN, 1996

**Shasta Gem and Mineral Society, Inc.**  
**58th Annual**  
**GEM, MINERAL & JEWELRY SHOW**

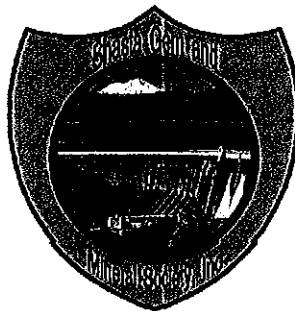
**October 15th & 16th, 2011**  
**Shasta County Fairgrounds**  
**Anderson, CA**

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**Saturday 9- 5**  
**Sunday 10- 4**  
**Kids Activities**

**Gems, Crystals, Fossils**  
**Lampwork Beads, Beads,**  
**Finished Jewelry**  
**Polished Stones**  
**Jewelry Making Supplies**  
**Equipment**  
**Demonstrations**  
**Bar-B-Que**  
**Exhibits**  
**Dealers**  
**Free Admission-Free Parking**



check us out at: [www.shastagemandmineral.com](http://www.shastagemandmineral.com)