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# 2011 DUES ARE NOW DUE

2011 DUES ARE DUE; our dues are due October 1, 2010. The amounts are \$15 per adult and \$8 per junior. Please send your dues to Gretta Seward, 20361 River Valley Drive, Anderson, California 96007.

## NOVEMBER 2010

## SHASTA GEM & MINERAL SOCIETY, INC.

Shasta Gem & Mineral Society, Inc                      ROC TOC                      2010

### 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  
 Steve Szynter                      241-2010  
 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  
 Joanne Pryor ..... 241-2180  
 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)

## HAPPY BIRTHDAY

Happy Birthday to you! We sincerely hope you have a wonderful birthday.

BIRTHSTONE; TOPAZ  
FLOWER; CHRYSANTHEMUM

Who first comes to this world below  
With drear  
November's fog and snow  
Should prize the topaz's amber hue-  
Emblem of friends and lovers true.  
Avon

## THE TOPAZ

Topaz is an aluminum fluorosilicate, a high temperature mineral generally found in igneous rocks and veins. It may be white, colorless, yellow, pink, bluish, greenish, and brownish; the streak is colorless and it has a hardness of 8. Flaws and inclusions are common. Cleavage is perfect in one basal direction; fracture subconchoidal, uneven; transparent to translucent. The crystals are orthorhombic, usually in stubby to medium long prismatic crystals striated lengthwise. They can also be huge, 500 pounds or more.

Topaz is found in granite pegmatites with albite, beryl and quartz; in cavities in rhyolite with orthoclase and quartz; in massive hydrothermal replacement deposits with rutile, pyrophyllite and quartz. The finest specimens of gem stone quality come from the Ural Mountains, Siberia, Brazil and Sri Lanka. They are also found in the U.S. in Colorado, California and New Hampshire.

The most highly prized ones are deep golden yellow. Many faceted yellow stones are known as topaz (i.e. citrine quartz.) so buyers should be aware of exactly what they are purchasing.

**ANNUAL SHOW:** Our 57<sup>th</sup> annual gem show was well attended by the public. The involvement by the Members that came to help with the show were great. Our president, show chairman, dealer chairman, and advertising chairman would like to thank all members that helped to put on the show.

Just remember a successful show would not be possible without your help. Thank You!

**NOMINATION OF OFFICERS:** Being a club officer does

not take much of your time, and can be very interesting. If you take an office you must be able to attend most of the meetings. According to our By-Law, "The absence of an officer for three consecutive meetings without adequate explanation shall automatically make the office vacant and the vacancy shall be filled immediately". At the present the nominations are as follow:

President: Steve Puderbaugh  
Vice President: Sara Fenske  
Secretary: Phyllis Szynter  
Treasurer: Sandra Park & Rochelle Ohlson  
Board of Director: Zeke Breazeale

Any one who would like to run for an office may be nominated from the floor. The above are the only members that have said they would like to run for an office.

**NEW MEMBERS:** We would like to welcome Jim Willis, Laurel Medinger, Tanya Vincent, Kyle Parkinson and Jonathan Sorling to the SG&M. We hope you will find being a member a rewarding experience.

Please introduce yourself when you see some one at our meetings that you do not know. We want every one to feel welcome. Remember members to bring your own table service and potluck dish to all meetings.

The Roc Toc is our monthly newsletter and we mail them only to members that do not have a computer. Please access [www.shastagemandmineral.com](http://www.shastagemandmineral.com) for your copy. If you are receiving a copy in the mail and have a computer, please give me a call so I can remove your name from the mailing list. The money we save can be used in the workshop to make purchases that are needed. Please call Gretta Seward at 365-8641. Thank You

**FOR SALE:** Jim Powell is having a "Bang Up Close out Sale". Jim said that he has approximately 24,000 items for sale. His address is 25197 S. Center Street, Los Molinos, CA 96055 and for more information please contact Jim at 530-384-0321 or at [jimpowell76@yahoo.com](mailto:jimpowell76@yahoo.com). He is open 7 day per week and from dawn to dusk.

The October 8, 2010 Shasta Gem and Mineral Society general meeting started at 7:15 PM. The sunshine report was that Jim Foster hurt his back seriously and will be recovering for about a month. Eileen Bassel had neck surgery and will have an extended recovery. She was with us tonight and thanked us for the cards. Our guest for tonight was Marie Aragon a friend of Sara Fenske.

Committee reports for the October show. We had a need for people to set up and put up show cases and seven people volunteered. The gates will open at 8 AM Friday the 15<sup>th</sup> of October at the fairgrounds to set up for the show. Jan Stone announced we need people to work the entry table for the show, selling raffle tickets and giving away door prize tickets.

The dealers dinner will be at 5:30 PM October 15<sup>th</sup> at the fairgrounds. Arrangements for food are all made and members should bring pot luck items if they are helping set up.

On October 21<sup>st</sup> at 6 PM there will be a Superior Cal meeting in Corning at the Round Table Pizza. You get off the freeway near the Ford dealership and it is near the Safeway market.

In new business Hawes Ranch Harvest Festival invited the club to sell rocks in the mining town exhibit for free this year or next.

Rocky announced the Spinning Wheel needs boys toys. There is an abundance of girl items. The grab bags are filled but Steve Puderbaugh said Betty Kozak made some bags that need filling.

There is a board meeting October 18<sup>th</sup> at 6 PM at the rock shop. Sandy Park is making ham hocks and beans for the meeting. Yum! Our reelection has only one new person. Zeke Breazeale is for board of directors.

Bill Doyle made a motion to close the meeting and was seconded by Shareen Strauss. The motion passed.

We made \$190 in the raffle and \$22 in the silent auction.

## A SMART GENIE!!

A man was walking along a California beach and stumbled across an old lamp. He picked it up and rubbed it. A Genie popped out. The Genie said, "O.K., O.K., You released me from the lamp. It is the fourth time this month and I am getting tired of these wishes. So you can forget about three. You only get one wish. What is it?"

The man thought about it awhile and said, "I've always wanted to go to Hawaii, but I'm afraid to fly. I get very sea sick. Could you build a bridge so I could drive over there?"

The Genie laughed and said, "Are you crazy? That's impossible. Think of the logistics of building a bridge like that. How would the supports ever reach the bottom of the ocean? Think of how much steel I'd need. No. Think of something else."

So the man said, "I wish I could understand women. Know how they think and feel. Understand why they cry and what makes them laugh. I want to know what they really want when they say 'nothing' and how to make them truly happy."

The Genie paused a moment and asked, "Do you want that bridge two lanes or four?"

## Oct board meeting minutes

The October board meeting was held at the Shasta County Fairgrounds before the opening of the Shasta Gem and Mineral Show on Saturday the 16th of October. The meeting began at 9:30 AM. It was held in the Lassen building. The next year slate for the officers was discussed. Zeke Breazeale is nominated for the member of the board. If no other nominees from the floor are made the election will be done by acclimation.

Steve Puderbaugh Thanked the dealers for coming and wished them well in this poor economy.

Steve said that for the 2011 state show that the center section of Lassen hall will be used for the display cases except for the south end which will be used for club member usage. The dealers will be against the east, west, and north walls. The Trinity building will be all dealers and the building north of Lassen will be partly full of dealers. The state conventioners will be using Fusaro hall.

The Weaverville club asked about joining in with us. Steve said it would be OK and he indicated that the Oroville club would also be invited.

Jan Gutkowski became ill Saturday night and was hospitalized A friend manned his booth Sunday and packed up the things after the show closed. Jan is in Shasta Regional Medical Center room 350A. They are trying non surgical methods , but if they don't work they will have to operate Monday.

At 9:45 Marianne Sweetwood made a motion to close the meeting and John Ellwanger seconded it. Motion was passed.

## Dusty Rocks

October 2010

### At long last... a rock hounding trip!

We were looking through the booklet, "Gem Trails of Oregon" to see if we could find something close to home to go hunting for. We read about Crane Creek – just south of Lakeview... and the booklet said it was a source of thundereggs! Oh boy!

Sunday morning we packed up the dogs and a picnic lunch and headed out, following the instructions in the book. Since that booklet had been printed almost 12 years ago, some markings had changed, but it was pretty accurate in its mileage/odometer readings.

Crane Creek is only about 3 ½ miles south of Lakeview. We turned up that dirt road and then counted off another 3 miles on the odometer and came to a road with a ranch sign on it. We almost didn't take it, but decided to give it a try and it turned out to be the correct road. During the wet season, the road had been mushed up a bit, but since it had dried out, the ruts were pretty passable. There was one section that was pretty narrow for our pickup, but again, we were able to continue on. We decided to park the pickup and walk the last 1.5 miles – up the hill – and it was quite a hike. When we got to the top, we couldn't remember if we were supposed to go left or right... but we finally found the area. There were quite a few pits where other rock hounds had dug for thundereggs.

Since this was our first trip up there and we weren't sure how far we had to go, we had left the shovel and Pulaski in the pickup (a mile and a half down the road). We weren't able to do much digging because of that, but there were quite a few thundereggs left around the pits. Some were broken up and some were whole. We were able to fill our bags with a good selection and then turned around and headed down the hill back to the pickup.

Robert cut a couple of the smaller eggs when we got home – both have nice agate centers!





ROCKS CREATED FROM  
LAVA AND MAGMA ARE  
DEFINED AS IGNEOUS.

## ROCKS AND MINERALS

Let's start off with an explanation that rocks and minerals are different things. Rocks are groups of different minerals pushed together and combined. They don't have easy chemical formulas to describe their makeup. A ruby is considered a mineral. It's a nice pretty crystal with the same compounds throughout the object. But the rock that surrounds that ruby has many many different compounds (and even a few pieces of ruby mixed in). There's an easier example that many people can relate to. Think about quartz. On its own (as a mineral) it's a nice pretty crystal. But a piece of granite often has loads of quartz. It's ground up and crushed, but it's still bits of quartz. Granite is a rock and quartz is a mineral.

## IGNEOUS ROCKS

Igneous rocks are the ones that were **superheated** and originally liquid. They come from the center of the Earth! Not really the center, but they often start their lives below the crust and then get pumped out. There are two basic types of igneous rocks. There are the rocks that make it to the surface (extrusive) and the ones that are stuck in the crust just below the surface (intrusive). These igneous types have all hardened after being molten rock. If you walk around a volcano, you will find those **extrusive** types. The **intrusive** types are usually found in areas called plutons and dikes, big old pools of molten rock that were just beneath the surface. Some examples of igneous rock are granite, all volcanic rock, basalt, and obsidian.

## METAMORPHIC ROCKS

This rock type is created by heat and/or pressure. Even though heat is involved, they didn't start off as molten rock. But... You often find metamorphic rock near volcanoes and sources of super hot rock. The heat from the magma changes all of the rock around it. Try another explanation. Look at the name 'metamorphic.' It looks like the word used to describe insects that go through a **metamorphosis**. It's the same concept. Some force (heat/pressure) has changed these rocks from one type into a new type. The result is a metamorphic rock. Some

examples are marble, jade, slate, and gneiss. Because pressure and heat are involved, these rock types are usually found deep beneath the surface. They are also found near **fault lines** where plates push against each other and create enormous pressures. Over time, because of the movement of the crust, these metamorphic rocks are pushed to the surface where you can find them every day.

## SEDIMENTARY ROCKS

The last of the big three rock types is probably the rarest... unless you live near the coast. Sedimentary rock types are created when **sediment compresses**. It's pretty simple. Here's the setup... A river flows through a canyon and picks up a bunch of silt. That sediment and silt runs downstream and deposits where the river ends. It could be in a flood plain or a valley, but we're using a coastline as an example. When that material gets to the beach, it sits there. Now if you watch this happen over millions of years, more and more sediment builds up and **compacts**. That compacted sediment eventually becomes a type of rock. Examples of sedimentary rock include sandstone, amber, anthracite, and limestone.

## METEORITES?

That's right, not all rocks are from Earth. Sure you can debate whether a meteorite is a rock, but you definitely find them all over the Earth. Some super big ones have created massive craters across the globe. Most scientists now believe that a super-massive meteorite hit the Earth and created an **extinction** event for the dinosaurs. There are also millions of tiny meteorites. They look just like rocks until you break them open. Meteorites are mainly made of iron and nickel. You will also find many smaller **trace elements**. The key thing to remember about meteorites is that they have much different percentages of elements than rocks on Earth. Many trace elements found on these space travelers are nearly impossible to find on Earth.

[http://www.geography4kids.com/files/earth\\_rocktypes.html](http://www.geography4kids.com/files/earth_rocktypes.html)

**A mind that has been stretched will never return to its original dimension...**

**Anonymous- Credit Union Calendar**

--via "Rock Talk"--  
VIA-Gems From the Redwoods 6/10

**Shasta Gem & Mineral Society, Inc.  
Presents: Winter Sessions**

All classes meet at 6471 Airport Road, Anderson, CA 96007  
(Just north of the Sacramento River Bridge on Airport Road)  
**Sign up at Redding Recreation, 1050 Parkview Ave, Redding, CA**  
[www.reddingrecreation.org](http://www.reddingrecreation.org)  
**No Add-ons will be accepted.**

**LAPIDARY (Adults & 12 years +)**

Beginning lapidary will teach students to saw, cut, shape and polish rocks and gems.  
Instructor: Steve Puderbaugh – Assistant Instructor: Bill Seward

Thursdays: October 28 thru November 18, 2010

Time: 5:30pm – 8:30pm

Fee: \$34 for 4 classes plus \$15 materials fee paid to instructor at first class.

Lab Sessions available on Tuesday Nights 5:30pm to 8:30pm

Minimum 5 – Maximum 10

**SILVERSMITHING FOR BEGINNERS (Adults & 16 years +)**

Introduction to soldering techniques. Students learn to design and create a sterling silver pendant and a sterling silver ring. In class tools provided.

Instructor: Jim Foster – Assistant Instructor: Bill Doyle & Richard Park

Thursdays: October 28 thru November 18, 2010

Time: 5:30pm – 8:30pm

Fee: \$34 for 4 classes plus \$40 materials fee paid to instructor at first class.

Lab Sessions available on Tuesday Nights 5:30pm to 8:30pm

Minimum 4 – Maximum 6

**BEGINNING WIRE WRAPPING (Adults & 16 years +)**

Introduction to wire wrapping. Students learn to create intricate bead and wire jewelry with a professional finish, using 14k gold-filled wire and Sterling Silver wire. Finished products will be two Wire Wrapped Pendants. In class tools provided.

Instructor: Sandra Park - Assistant Instructor: Bobbie Gotschall

Two Day Class: November 10 & 11, 2010

Time: 5:30pm – 8:30pm

Fee: \$24 for 2 classes plus \$40 materials fee paid to instructor at first class.

Lab Sessions available on Tuesday Nights 5:30pm to 8:30pm

Minimum 4 – Maximum 6

To sign up for class please register at:

Redding Recreation; 1050 Parkview Ave., Redding, CA 530.225.4095

For More Info call Shasta Gem & Mineral Society Workshop:

Workshop Manager: Steve Puderbaugh 530.357.4000

Workshop Office Manager: Sandra Park 530.246.9822 or 530.515.6786

Email: [sandra.jane@att.net](mailto:sandra.jane@att.net)



*Sphaerexochus*  
Silurian  
outstretched & enrolled



*Arcinurus*  
Silurian

### WHAT ARE TRILOBITES?

Reprinted from ASK ANDY  
*Paleo Footnotes*, 1/07

The word trilobite refers to a body with three lobes, or sections. The trilobite who thrived so long ago had head, thorax, and tail section somewhat like a modern insect. His soft body wore a protective shell, rather like that of a shrimp, these resemblances are not surprising, for the trilobite is a remote ancestor of our modern shrimps, insects, and all other members of the vast Phylum Arthropoda. He and his kinfolk were ancient arthropods that lived in the sea when its waters were less salty than they are today.

The Cambrian Period of around 500 million years ago is called the Age of Trilobites because at the time these arthropods were the most advanced creatures on earth. The earliest ones were smallish, perhaps no bigger than beetles. Each had lots of short thin legs, arranged in a row along each side. He scuttled along on the silty seabed, grubbing for food. The shell on his back protected him from the few creatures likely to attack him. But at first it was stiff and unbendable.

Through millions of generations, the descendants of the original trilobites branched out in different forms. Life in the mild seas was easy and, as more worms and lesser creatures developed, there was more food. Many trilobites grew bigger and bigger and some were giants, 27 inches long. And through the ages, many trilobites modified their stiff shells. The grooves became pliable and the crusty creatures were growing larger and hungrier.

Trilobites of one sort or another survived through the entire Paleozoic Era that lasted some 330 million years. Their long and successful dynasty declined and finally became extinct during the Permian Period, about 200 million years ago.

The fossils of some 2000 species have been identified and this is but a small percentage of the total. The

original trilobites departed, but some of their species changed so much that they became a different species. They were the remote ancestors of our shrimps and lobsters, our crabs and teeming insects.

The ancient story of the trilobite was traceable because so many of their durable shells became fossilized. As trilobites grew, they shed their tight shells for bigger ones and countless million of these discarded shells were preserved in limestone and other rocks.

Via *Gem City Rock News*, 10/00, *The Gemrock*, 11/00,  
*Quarry Quips*, 4/01

### WHAT IS A TRILOBITE?

By D. J. Bethea  
From *PaleoDiscovery*, 8/94

KINGDOM: INVERTEBRATE  
PHYLUM: ARTHROPODA  
SUBPHYLUM: TRILOBITOMOPHA  
CLASS: TRILOBITA

*Greek name Arthron=joint, pedes=foot*

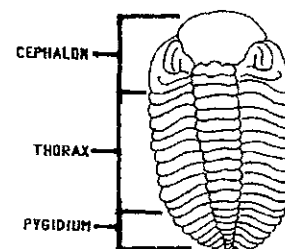
Trilobite is of Greek origin – treslobos meaning three-lobe.

Arthropods have segmented bodies with jointed appendages. Other familiar Arthropods include insects, scorpions, lobsters, crabs, shrimps, and fossil Eurypterids.

The trilobite is an extinct form of marine organism that lived in the warm shallow seas ranging geological age from lower cambrian period up to the middle permian period (270 – 750 million years ago). Thus the entire evolution was during the Paleozoic era.

Trilobites are divided into three main parts: the cephalon (head area), the thorax (body area) and the pygidium (the tail).

PHACOPS RAMA CRASSITUBERCULATA  
MIDDLE DEVONIAN




Shasta Gem Mineral Society


**October 2010**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2 Open Workshop 10 am-2 pm Dave Carpenter
3	4	5 Open Workshop 5:30-8:30pm Steve Puderbaugh	6	7	8 Club Mtg Anderson Grange Hall 6pm	9 Open Workshop 10 am-2 pm Ohlson/Sznyter Kids Free Day
10	11	12 Open Workshop 5:30-8:30pm Steve Lay	13	14	15 Gem Show Set-up at Fairgrounds	16 Gem Show Shop Closed
17 Gem Show All Hands on Deck Teardown 4 pm	18 Board Meeting 7pm Host: Parks at Workshop	19 Open Workshop 5:30-8:30pm Zeke Breazeale	20	21	22	23 Open Workshop 10 am-2 pm Ohlson/Sznyter
24	25	26 Open Workshop 5:30-8:30pm Bill & Susan Doyle	27	28	29	30 Open Workshop 10 am-2 pm Park/Ellwanger
31						

**November 2010**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2 Open Workshop 5:30-8:30pm Steve Puderbaugh	3	4	5	6 Open Workshop 10 am-2 pm Richard & Sandra Park
7	8	9 Open Workshop 5:30-8:30pm Steve Lay	10	11	12 Club Mtg Anderson Grange Hall 6pm	13 Open Workshop 10 am-2 pm Ohlson/Sznyter Kids Free Day
14	15	16 Open Workshop 5:30-8:30pm Zeke Breazeale	17	18	19	20 Open Workshop 10 am-2 pm Seward/McKee
21	22 Board Meeting 7pm Host:	23 Open Workshop 5:30-8:30pm Bill & Susan Doyle	24	25	26 	27 Open Workshop 10 am-2 pm Ohlson/Sznyter
28	29	30 Open Workshop 5:30-8:30pm				

**December 2010**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4 Open Workshop 10 am-2 pm Richard & Sandra Park
5	6	7 Open Workshop 5:30-8:30pm Steve Puderbaugh	8	9	10	11 Open Workshop 10 am-2 pm Ohlson/Sznyter Kids Day
12	13	14 Open Workshop 5:30-8:30pm Steve Lay	15	16	17 Club Mtg Anderson Grange Hall 6pm	18 Open Workshop 10 am-2 pm Seward/McKee
19	20 Board Meeting 7pm Host:	21 Open Workshop 5:30-8:30pm Zeke Breazeale	22	23	24	25  Christmas Day
26	27	28 Open Workshop 5:30-8:30pm Bill & Susan Doyle	29	30	31	

Workshop Notes: - Open Workshop Days - Ticket Purchase Required  
 - Kids Day: 1st Saturday after 2nd Friday (Saturday after Club Meeting)