

Grindings

Idaho Gem Club, Inc.

P.O. Box 8443 ♦ Boise, Idaho 83707-2443

VOL 68 NO 6

June 2008



BOARD OF DIRECTORS

Catherine Parsons
President
465-1646

Willa Renken
1st Vice President
362-3941

Ilse Schreiner
2nd Vice President
362-2416

Joe Nielson
362-3522

Ed Moser
340-8060

Arlene Bailey
562-8030

Terry Tomberlin
343-7506

Tony Griffin
467-9286

Twila Gallaher
853-6703



RECORDING SECRETARY OPEN

TREASURER
Kathy Griffin
467-9286

NFMS DIRECTOR
Charles McCreath
344-5085

EDITOR
Doug Renken
362-3941
WLR_DKR@MSN.COM

CLUB WEB SITE
www.idahogemclub.com

President's Message

The field trip to McDermott has been cancelled, instead, we are expecting our club members to support the Federation Show in Ontario and participate in the field trips being offered there. The show will be entertaining with lots of good materials for sale, cases to view, and old or new friends to visit with. It's scheduled for June 20-22.

I'm delighted to say that we have received our first scholarship application for this year! Hopefully, we'll get several more in before the deadline. Remember, for more information about the scholarship, please contact Terry Tomberlin.

A boy scout troop contacted us for information about sources for different rock specimens they could use to make gemstone collection cards – I'm proud to say that several board members offered to donate agate, petrified wood, jasper, sunstones, small dugway geodes, etc. for their project (100 each specimen) and they will be handed in to Doug Renken at the next general meeting. The request was received through our new web site which I hope you all have had a chance to visit. It's going to be GREAT.

Are you a rock hog? I hope not. There will be some discussion about the "etiquette" of rock collecting and not taking rocks from your fellow club members at the next meeting. Tony has developed some information and it is included in this newsletter. If someone has left their tools in their hole – that means they'll be back. There was also an issue with a litterbug at the last field trip – the individual deliberately dropped her lunch leavings out the window and when confronted appeared to "salute" our ex-President. This certainly doesn't convey a feeling of good will towards that person either, does it? Garbage is garbage and it doesn't belong at a premier rock collecting site like Beacon Hill.

We have approved the budget for next year's Show. Remember we will need all of your tumbled rocks and bags to put them in. If you need the pattern for the bags, we can provide that to you in the newsletter or at the meeting, just let us know.

One other issue that should be addressed is if your field trip leader tells you to leave a site due to bad weather – please do so immediately! They have the experience and know what the "trail" conditions will be. It got awfully dangerous for the last ones (our field trip leaders) to leave Beacon Hill last time due to the downpour.

Well, off my soap box but remember if you are the one making problems, they just might come back to haunt you.

Happy Rockhounding.

Catherine Parsons
President

**MINUTES OF THE IDAHO GEM CLUB
GENERAL MEETING ♦
MAY 20, 2008**

Bill Belknap led the Pledge of Allegiance. Door prize winners were T Johnson, Ron Ridenour, Charles Fawcett, Patsy Bethel, Clarence Burmeister, Bill Belknap, Arlene Bailey, Jim Dillion, Mike Eckert, Charles Marsh, Griffen Gelnau?, Tony Griffin, Coyote Short, Jim Jenks, Donald Marsh, Vera Jenks, Judy Webb, Darlene Robinson, and Marge Conley. The winner of the Building Fund door prize was Robert Burns.

Seven guests were introduced.

Willa Renken hosted the meeting as Cathy Parsons was absent. Willa asked members to consider volunteering to be Secretary as Joan Alvey had to resign due to ill health.

Tony Griffin gave the Treasurer's report for Kathy Griffin who was out of town. Money has been moved from the checking account. The Scholarship CD is now at the goal of \$10,000. Other funds have also been moved to our CD's so we can earn interest on the money.

Charles McCreath gave the Federation report. It is only about one month before the Federation show in Ontario, Oregon. He would appreciate any postage stamp donations be received by him by the next meeting. He encouraged people to go to the show to see unique exhibits we might not have seen before.

Ron Bailey gave information on the ROLE program.

Tony Griffin gave the field trip report. The April field trip to Graveyard Point was cold and it snowed several times, but was a nice trip anyway. May 3rd was the first annual Graveyard Point community service cleanup. The members from the Idaho Gem Club and the Owyhee Gem club who were there & cleaned up a lot of trash. Next year we need to have more members show up as nice rocks were found as well as picking up trash. There is now a new bridge across the canal to get to the collecting area. This weekend the field trip is to Juntura, Oregon to the Harry Ellis petrified wood collecting area. The meeting place is in Caldwell at the Jack in the Box between 7:30 am and 8:00 am, leaving at 8:00am. It is an overnight trip and there is camping at the Warm Springs Reservoir. The Owyhee club will be going thru Nyssa for the same trip.

Beacon Hill road is dry to the top. There will be two trips to Beacon Hill, one on Sunday June 1st and one on Saturday June 7th. The meeting place for both trips is the stateline rest area out of Ontario at 9:00 am. A high clearance vehicle is required to go all the way in. There is a place for lower clearance vehicles to park and people can catch rides with others for the rest of the way in.

Willa Renken reported the next workshop is Thursday May 22nd 6:30 to 9:30 pm. There will also be a workshop given in June.

Ed Moser reported the Juniors had two new members. Polished rocks were donated for the Juniors from a rock sale in Emmett.

Arlene Bailey our Sunshine Lady encouraged people to let her know if someone was ill or needed cheering up. Joe Neilson reported on the Building Fund.

Willa Renken encouraged people who know geology related students to have them apply for our scholarship to be given this fall.

The Discovery Center was impressed by the enthusiasm showed by the children for the club members who demonstrated at their home school program. Thanks to Ron Ridenour, Roy Bethel and Terry Tomberlin for a good job. Over 666 students attended. The Discovery Center will have Make IT! Programs on Saturdays thru November. If anyone would like to volunteer to demonstrate on some Saturday contact Terry Tomberlin.

Charles McCreath reported his rockhound class was at the halfway mark. He was going to give a rockhound program to 20 students from Star on Wednesday. The club board has authorized the purchase of a projector to present programs that are now available on DVDs.

Doug Renken encouraged people to contribute stories and pictures to the newsletter and thanked those who already have. The new website is up at IdahoGemClub.com and is almost complete. Contributions of information and pictures are needed from our members. Phillip Stevenson has an article and pictures of his Morrisonite in the last issue of Rock and Gem magazine. The pictures are spectacular.

Charles Osgood gave a report on the license plate project and had examples of some proposed designs. There is a lot of work to do to get a license plate design approved. After a bill is drafted it must be sponsored and pass both houses of the legislature and be signed by the Governor. It will be at least a three year process. He and others will be visiting all the rock clubs and dealers around the state to get their input and support for this idea.

Marge Conley announced she will be having a rock related yard sale this weekend from 7:30 am on Friday and Saturday at 3177 Bryson in Boise.

Meeting adjourned for refreshments after which Sandy Blodgett volunteered to be the auctioneer. A very lively rock auction was held with some spirited bidding by our members.

*Respectfully submitted,
Twila Gallaher,
Acting Secretary*

**MINUTES OF THE IDAHO GEM CLUB
BOARD MEETING ♦
JUNE 3, 2008**

Board members present include Willa Renken, Cathy Parsons, Ilse Schreiner, and Ed Moser. Absent and excused were Arlene Bailey and Twila Gallaher. Absent were Terry Tomberlin and Joe Neilson. Also present Doug Renken, Charles and Shirley McCreath, Lynne Davis, Charles and Helen Smith, and Kathy and Tony Griffin.

Willa Renken moved to accept the minutes of the May board meeting as printed in the Grindings. Ilse Schreiner seconded. The motion passed.

Kathy Griffin gave the Treasurer's report. The Scholarship CD was increased to \$10,000 dollars. An additional General Fund CD was purchased for \$7,500 and an additional \$2,500 was deposited into the Money Market account. The Building Fund CD will mature this month and Kathy will explore which type of renewal/new CD will get us a higher interest amount and deposit funds appropriately.

Chuck McCreath gave the NW Federation report. There have been no resolutions for the up-coming mid-year meeting that have been published in the NW Federation Newsletter. The Federation reported that it had made over \$4000 from stamps turned in by the member organizations. This money was donated to cancer research. The Federation show will be June 20, 21 and 22 at the Malheur County Fairgrounds.

Ilse Schreiner reported that we will have an auction at the June 17th meeting.

Tony Griffin gave the Field Trip report. Only Tony attended the May field trip to Juntura.

Ed Moser reported that there will be a notice in the Grindings about a contest for children in the "Rock and Gem" magazine each month.

Chuck McCreath reported that there have been eight individuals who have attended every session of the rock class. The last class would be at the shop Thursday, June 5th. Chuck also feels that club members need to be reminded about Field Trip Etiquette.

A projector for use at club meetings will be purchased over the summer.

Doug Renken reported that the new website is up and running at <www.idahogemclub.com>. He still needs input on what the Rocky Rattlers want on their page.

Doug has also had a request that came into the website from a Cub Scout day camp leader. She would like each of the 100 campers to make mineral example cards and was looking for an inexpensive place to get the mineral examples. Doug and Willa have sunstones, quartz crystals, dugway geodes and petrified wood. Lynne Davis has garnets. Cathy Parsons has examples of jasper and Chuck McCreath has peridot for the cards. Others present felt that together we can come up with enough agate for the cards.

Chuck McCreath reported that he and Shirley had 20 6th graders and their parents for a tour and demonstration at their house.

Charles Smith proposed the budget for the 2009 Gem Show. Willa Renken moved to accept this proposal and Ed Moser seconded. It was accepted by the board.

The following new members were accepted: Judith Webb, Robin Solt, Harold & Deanna Holloway, Tim Vaughan, Brad & Barbara Snow, Roger & Carolyn Nelson, Ronald & Judy Lambert, Jennifer & Aaron Ashton, Steve Longstroth Family.

Kathy Griffin had a question about the dues paid by new members who join the club in the summer as in October the next year's dues are due. Ed Moser moved that dues received from July through September are applied for the following year's dues as a pilot for the 2008 – 2009 fiscal year only. Willa Renken seconded. The motion was approved by the board.

Ed Moser moved that the board will revisit this issue after October 2008 and if this has worked out well for the club and its members, then the bylaws will be amended to make this change permanent. Willa Renken seconded. The motion was approved by the board.

*Respectfully submitted,
Kathy Griffin
Acting Secretary*

Yesteryear ***January 1951***

Mr. Dodds had a paper on petrified redwood trees in California. There was one estimated to be 300 feet in length. The Club will put exhibits up at the North Hr. High Hobby show in February and Dr. Weitmer will demonstrate hand polishing of rocks. Mr. Harrington discussed his process of making doublet opals by backing them with black onyx. Potluck dinner for March was discussed and approved by the members. The YMCA was planning to have a Junior Rock Club and wished to have the approval and support of the Board of Directors of the IGC.

The State Mining Inspector invited the IGC to maintain an exhibit of Idaho Minerals in his office at the State House. It will be housed in a closed case.

The annual banquet was planned in April. It was decided to have Chicken and would cost \$1.50 a plate.

Officers were elected and Miss June Barr was nominated for President.

The April meeting was held at Boise Junior College because of the furniture display at the Art Gallery. The field trip was to be at Horse Hill, 12 miles south of Bruneau to dig for fossils. Madam Ada DiVerme gave an entertaining talk of her experiences and knowledge of the Diamond mines in Africa and of the gems of South America.

Patsy Bethel
Historian

June Program

The June program will be an oral rock auction. Please bring any extra material you would like to share for the auction.

Ilse Schreiner
Programs Chair

Welcome New Members

Judith Webb
1416 N. 24th St.
Boise, ID 83702-2306
(208) 344-3676

Robin Solt
2717 Malad St #23
Boise, ID 83705-4183
(208) 344-4025

Harold & Deanna Holloway
5265 N. Larkwood Pl.
Meridian, ID 83646-5273
(208) 888-9464

Tim Vaughan
3789 Cekeler Lane #206
Boise, ID 83706-6490
(208) 300-0606

Brad & Barbara Snow
2493 S. Charlotte Ave.
Boise, ID 83709-2497
(208) 658-1559

Roger & Carolyn Nelson
1704 Colorado Ave.
Boise, ID 83706-3840
(208) 344-9362

Ronald & Judy Lambert
2986 E. Ragusa St.
Meridian, ID 83642-8398
(208) 854-7774

Jennifer & Aaron Ashton
5558 W. Lucky Dr.
Boise, ID 83703-3142
(208) 345-6841

Steve Longstroth Family
P.O. Box 640
Emmett, ID 83617-0640
(208) 412-1596

April Field Trip Report

Field Trip Etiquette and Juntura Field Trip recap

Have you ever wondered why our "Grindings" Newsletter has the American Federation of Mineralogical Societies "Code of Ethics" printed in it every month?

Go to <http://www.amfed.org/> look at the buttons for Code of Ethics or do a search on this website for "etiquette". It's quite enlightening to read why we profess to believe and practice these rules.

I stopped in Caldwell on Saturday morning to meet members of our club heading for Juntura. Duncan and his Dad met me, but they knew the way and where to go. At 8 a.m. I left for Juntura alone. After arriving at the Oasis Restaurant and Motel I was pleased to find out that one individual had checked in at the Motel for the night as she said she would. One safe and accounted for! At eleven I was supposed to meet another couple, but they had arrived early and had gone with John Howell when he went past the Oasis. I found them later busily collecting wood. Every one else had gone on to the next stop at Warm Springs Reservoir with John.

I spent about forty five minutes refilling holes that rockhounds had dug and picking up trash that rockhounds had left. Some holes were not current this year, but that is not to say there weren't any fresh holes. If we continue to violate the "Code of Ethics" we will lose the opportunity to use Public Lands for recreation.

There is very little chance of getting lost between Juntura and Warm Springs Reservoir of which I am glad. After the reservoir there are a few roads that one can get lost and take days to find your way out.

I met up with John and a couple from the OGMS at the reservoir where we spent the night. It was peaceful, the sunset was a brilliant fiery red, and the geese calling each other. The evening was quite pleasant.

If a Field Trip leader says it is time to do something or asks you to do something, please respond accordingly! Mess it up for us and individuals can and will be barred from ever going with us to this area again!

Respectively submitted,

*Tony Griffin
Field Trip Chairman
467-9286 home phone
863-4248 cell phone.
Email: tonygriffin@heritagewifi.com*

HAPPY BIRTHDAY



JUNE

6/1 David Johnson
 6/3 Keith Chipman
 6/3 Carolyn Nelson
 6/7 DaVon Beck
 6/7 Alberta Stewart
 6/11 Eldon Lutz
 6/11 Robert L. Turner
 6/12 Teri Hetherington
 6/15 Cheryl Ellicott
 6/16 Chris Blickfeldt
 6/18 Margaret Loewen
 6/19 Steve Longstroth
 6/21 Laura Lindsay
 6/21 Phillip Morris
 6/24 Gabrielle Loewen
 6/24 Tammy Vincent
 6/26 Gene Snyder
 6/28 Carol Knudsen
 6/28 Katherine Deonier

June Birthstones
Faceted — Alexandrite
Cabochon —
Moonstone
Traditional — Pearl

JULY

7/1 Mike Jones
 7/1 Randy Knudsen
 7/3 Beth Longstroth
 7/6 Sharon Longstroth
 7/7 T Earl Allen
 7/7 Stephen Mend
 7/9 Brad Snow
 7/10 Renee Carpenter
 7/10 Christie Dewey
 7/12 Debra Burns
 7/14 Robin Hewitt
 7/15 Gordon Roberts
 7/16 Pat Conley
 7/16 Richard Teel
 7/17 Michael Vincent
 7/17 Christine Cockerham
 7/18 Kathy Griffin
 7/19 Laura Eastlick
 7/20 Pat Bethel
 7/20 Lynne Davis
 7/20 Rick Murphy
 7/20 Eva Murphy
 7/21 Mary Jo Nickerson
 7/22 Tom Rogers
 7/23 Dona Griswold
 7/24 Perlene Lake
 7/24 Maxine Smith
 7/26 Larry Ridley
 7/26 Paula Tomberlin
 7/26 Jonathan Shelton
 7/27 Zoe Friel
 7/28 Philena Thompson
 7/29 Catherine Parsons

July Birthstones
Faceted — Ruby
Cabochon — Carnelian

DATES TO REMEMBER

GENERAL MEETING:
3rd. Tuesday of every month
 June 17, 2008
 Church of the Brethren
 2823 N. Cole Road, Boise, Idaho
 Meeting Starts at 7:30 p.m.

BOARD MEETING:
1st. Tuesday of every month
 July 1, 2008
 Church of the Brethren
 2823 N. Cole Road, Boise, Idaho
 Meeting Starts at 7:30 p.m.

June Refreshment Committee

Chair: Lynne Davis 426-8011
 Peggy Dean 939-3018
 Max & Gary Smith 375-3435

REFRESHMENT COMMITTEE GUIDELINES

Need approximately 15 dozen cookies. Wrapped door prizes are also needed. Arrive early enough to set up the chairs. The chairperson brings the coffee urn, coffee, punch, cream, sugar, cups and napkins. Afterward, put meeting tables & chairs away, clean kitchen and sweep the room. Gather and take all the trash with you. Don't forget it is the responsibility of the chair for the coming month to pick up the coffee pot, take it home and bring it the next meeting.

July Refreshment Committee

Chair: Philip Stephenson 371-7110
 Ron Ridenour 336-5619
 Marge Conley 375-8935

IDAHO GEM CLUB JUNE FIELD TRIP

McDermitt Field Trip Postponed

The McDermitt field trip for June will be postponed to a later date to be determined. Some members of the club want to go, but have to work at or want to attend the Federation Show that is being held the same weekend in Ontario.

Also, due to the price of gasoline and diesel the field trip to Emerald Creek in northern Idaho will be canceled this year. If anyone wants to go by themselves I can give you directions and information about the collecting area at Emerald Creek.

See you at the Federation Show on the 20th, 21st, and 22nd of June in Ontario.

Tony Griffin
Field Trip Chairman
467-9286 home phone
863-4248 cell phone.
Email: tonygriffin@heritagewifi.com

Juniors Report

The Rock & Gem Magazine has a kids section. At the end of this section there is a monthly quiz. All the questions can be answered by carefully reading this section of the magazine. The quiz is open to U.S. residents 17 and younger. Answers should be sent to the address listed in this section on the magazine. This would be a fun exercise of our rockhound ability.

Ed Moser
Cell 340-8060
Juniors Chair

OWYHEE GEM & MINERAL SOCIETY JUNE FIELD TRIP

Trip Location: Jamieson Petrified Wood & Bog agate

Date of Trip: Saturday, June 21st

Meeting Place: O'Connor field House.

Leave Time: Meet 7:25 a.m. leave 7:50 a.m.

Comments: Shovel, Pick, Rock Hammer, Tick Spray. No pot luck, Fill in the holes.

John Howell O.G.& M.S.
(208) 454-0550 home phone
email: johnsfieldtrip@wmconnect.com

Upcoming Show

"UP and Coming in ONTARIO" SHOW
68th Annual
NFMS Show & Convention
JUNE 2008
20th 10am - 6pm
21th 10am - 6pm
22th 10am-4:30pm
Malheur Co., Fairgrounds
Ontario, OR

	Pete Peterson REALTOR	Jan Peterson ABR, GRI
	(208) 447-6391 (208) 890-9063	PETE'S CELL JAN'S CELL
petepeterson@cableone.net		
  		
ASPEN REALTY, INC. Each Office is independently owned and operated 6933 Emerald Boise, Idaho 83704 www.cbaspenn.com		
		

What Kind of Rock is It?

Have you ever wondered how to identify the type of rock you have in your collection or what you are looking at in the field? Maybe this is a rhetorical question, the reason we are rockhounds is to find pretty rocks or interesting mineral specimens. Possibly you just enjoy being outdoors to enjoy what Mother Nature has given us.

There are three types of rock in the Earth's "Rock Cycle". These are pretty basic, but bear with me. First there is volcanism producing magma and crystallization that we call Igneous. Over eons of erosion these igneous rocks weather and erode into sand and sediment, through mineral deposition and precipitation sedimentary rocks are cemented and compacted together, we call this cycle Sedimentary. Thirdly, heat and pressure act on sedimentary and occasionally igneous rocks to form what we call Metamorphic Rock. These rocks form deep beneath the earth's surface when there is enough heat and pressure to change (but not melt) the different already-existing rocks and minerals.

With this basic information let's look at how we can identify what is in our collection or look for rocks in the field. A Dichotomous Key is used for basic identification. As you progress from the beginning of each section you will be able to determine what type of rock you have.

Dichotomous Key for Igneous Rock

- | | | | |
|----|--|----------|--|
| 1. | Grains in rock are sand sized or smaller | 2 | |
| 1. | Grains in rock are larger than sand | 6 | |
| | 2. Rock looks like black glass | Obsidian | |
| | 2. Rock does not look like black glass | 3 | |
| 3. | Rock floats on water | Pumice | |
| 3. | Rock does not float on water | 4 | |
| | 4. Rock is dark colored | Basalt | |
| | 4. Rock is not dark colored | 5 | |
| 5. | Rock contains quartz | Rhyolite | |
| 5. | Rock does not contain quartz | Andesite | |
| | 6. Rock contains quartz | Granite | |
| | 6. Rock does not contain quartz | 7 | |
| 7. | Rock is mostly dark colored | Gabbro | |
| 7. | Rock is mostly light colored | Diorite | |

Dichotomous Key for Sedimentary Rocks

- | | | | |
|----|--|--------------|--|
| 1. | Rock contains grains | 2 | |
| 1. | Rock does not contain grains | 6 | |
| | 2. Rock bubbles when acid (HCl) is applied | Limestone | |
| | 2. Rock does not bubble when acid (HCl) is applied | 3 | |
| 3. | The grains are larger than sand | 4 | |
| 3. | The grains are not larger than sand | 5 | |
| | 4. The grains are round | Conglomerate | |
| | 4. The grains are not round | Breccia | |
| 5. | The grains are sand sized | Sandstone | |
| 5. | The grains are smaller than sand | Shale | |
| | 6. The rock is black | Coal | |
| | 6. The rock is not black | Chert | |

Dichotomous Key for Metamorphic Rocks

- | | | | |
|----|--|-----------|--|
| 1. | Rocks is layered | 2 | |
| 1. | Rock is not layered | 4 | |
| | 2. Rock breaks in layers | 3 | |
| | 2. Rock does not break into layers | Greiss | |
| 3. | The grains are very small | Slate | |
| 3. | The grains are not very small | Schist | |
| | 4. Rock bubbles when acid (HCl) is applied | Marble | |
| | 4. Rock does not bubble when acid (HCl) is applied | Quartzite | |

Continued from page 8

Ok, what happened to the rocks we enjoy collecting, where are the crystals, jaspers, agates, geodes, and opals? Precipitation of minerals has to take place, this is what the Geology Department at Idaho State University has to say: <http://imnh.isu.edu/digitalatlas/geog/mining/deposits.htm>

Hydrothermal Deposits

A hydrothermal deposit is one precipitated from a high temperature solution. As hot water with minerals in solution rises towards the earth's surface, the lower temperature and pressure near the surface cause the minerals to precipitate out of solution. Molten rock or magma below the surface supplies the hot fluids which travel upwards along the pressure gradient. Magma is 3 to 8 percent water by weight and lavas contain about 4 percent water.

Preparation of Rocks for Mineralization

Several processes must affect the rock in order to make it more receptive to mineralization. The rock must become more permeable and brittle. Rocks are hardened by silica, then shattered by faulting so as to increase permeability. Broken silica causes clean fractures with little or no powder so that fluids may move easily through the rock. Typically rocks with a high porosity such as sandstones and conglomerates also have a high permeability. Shales, on the other hand, have a high porosity but a low permeability. Consequently, shale beds may confine and trap a mineral deposit rather than allow it to pass through. joints and contraction cracks in igneous rocks make excellent channelways for fluids. Vesicular layers and interbeds between lava flows also provide very good permeability.

Ore Fluids

As hot fluids are discharged from magma, they circulate through huge volumes of shattered rock dissolving a variety of minerals. After taking minerals in solution at high temperatures and pressures, the fluids move towards the surface along permeable channels such as fracture zones. When the temperature and pressure drops sufficiently, minerals will begin to precipitate along the walls of the fractures.

Classification of Hydrothermal Deposits

A widely used classification of hydrothermal mineral deposits is based on the temperature of formation:

Hypothermal: 300' to 500' C (deep deposits)

Mesothermal: 200' to 300' C (medium deposits)

Epithermal: 0 to 200' C (shallow deposits)

Epithermal Deposits

Epithermal deposits are an important source of lode gold deposits in Idaho. They are formed at less than 3000 feet from the surface and at low temperatures ranging between 50 to 200 degrees centigrade. Mineralization occurs by open-space filling with such textures as drusy (crystal lined) cavities, symmetrical banding and comb structures. The fissures may open at the surface as hot springs. Epithermal veins are typically related to 'Tertiary plutons and volcanism.

Host Rock

Host rocks are typically found in altered volcanic rocks of Tertiary age, and to a much lesser extent they occur in granitic rocks of Late Cretaceous to Early Tertiary age.

Contact Metamorphic Deposits

After intrusion, a magma gives off heat and fluids. These hot fluids migrate upwards towards low temperature and pressure. New minerals and textures form along the contact of the pluton and the country rock. Minerals grow larger and grain size increases. If the country rock is a limestone, it is recrystallized into a marble. The intruded magma supplies valuable metals and silica. Silica precipitates in the pores of sedimentary rock as a quartz cement. Silica also reacts with chemicals in the country rock to form silicate minerals. Hot solutions leach out portions of the country rock and in its place silica and other minerals are deposited. Deposition occurs in permeable beds along bedding planes, cavities and fractures. Metals are very mobile and tend to be driven out of the magma and localized in the roof of the magma chamber.

Skarn minerals are formed at the contact between a granitic pluton and a carbonate-rich rock such as a limestone. Skarn minerals desirable for collecting include garnet, mica, corundum, quartz, diopside, tremolite, spinel, epidote, wollastonite, flourite, tourmaline and topaz.

FROM THE EDITOR

The deadline for articles is the board meeting, if it needs to be typed. If the article is sent via e-mail the deadline is the Saturday after the board meeting.

Phone: (208) 362-3941
E-mail: WLR_DKR@MSN.COM
My mailing Address is:
Doug Renken
12843 S. Five Mile Rd.
Kuna ID, 83634

Rockhound Humor

YOU MIGHT BE A ROCKHOUND IF,

**You think you know how to pronounce
 "chalcedony"**

**You are thinking of giving out specimens
 for Halloween,**

You planted flowers in your rock garden.

**You purchase things like drywall com-
 pound just to have another nice bucket to
 carry rocks in.**

**The club you belong to uses rocks for cen-
 terpieces for the annual Christmas din-
 ner.**



Sunshine Lady

Arlene Bailey is the club sunshine lady. Her job is to send some cheer to members who are ill or just need some cheering up. But she needs your help in doing this job. If you know of someone who has been recently ill let her know so she can send them a card. Her phone number is 562-8030. Thank you in advance for your help.

"CODE OF ETHICS"

I will respect both private and public property and will do no collecting on privately owned land without permission from the owner.

I will keep informed on all laws, regulations or rules governing collecting on public lands and will observe them.

I will, to the best of my ability, ascertain the boundary lines of property on which I plan to collect.

I will use no firearms or blasting material in collecting areas.

I will cause no willful damage to property of any kind such as fences, signs, buildings, etc.

I will leave all gates as found.

I will build fires only in designated or safe places and will be certain they are completely extinguished before leaving the area.

I will discard no burning material - matches, cigarettes, etc.

I will fill all excavation holes which may be dangerous to livestock.

I will not contaminate wells, creeks, or other water supplies.

I will cause no willful damage to collecting material and will take home only what I can reasonably use.

I will practice conservation and undertake to utilize fully and well the materials I have collected and will recycle my surplus for the pleasure and benefit of others.

I will support the rockhound project H.E.L.P (Help Eliminate Litter Please) and will leave all collecting areas devoid of litter, regardless of how found.

I will cooperate with field trip leaders and those in designated authority in all collecting areas.

I will report to my club or federation officer, Bureau of Land Management or other authorities, any deposit of petrified wood or other materials on public lands which should be protected for the enjoyment of future generations for public educational and scientific purposes.

I will appreciate and protect our heritage of natural resources.

I will observe the "Golden Rule", I will use Good Outdoor Manners and will at all times conduct myself in a manner which will add to the stature and Public Image of Rockhounds everywhere.

THE GRINDINGS

is the monthly newsletter of the Idaho Gem Club, Inc., associated with the Northwest Federation of Mineralogical Societies. Permission to copy is freely granted when proper credit is given to both the publication and the author. Articles without bylines are written by the Editor or President.

CHECK OUT THE CLUB WEBSITE!

idagemclub.the.society.net



Continued from page 9

Definitions: do a Google Search by stating in the search window "define: (word you want defined)" (i.e. define: skarn).

"Skarn" - A term used to describe the metamorphic rocks surrounding an igneous intrusive where it comes in contact with a limestone or dolomite rock formation. www.doublestar.net/glossary/

Skarn is a metamorphic rock that is usually variably colored green or red, occasionally grey, black, brown or white. en.wikipedia.org/wiki/Skarn

Source:

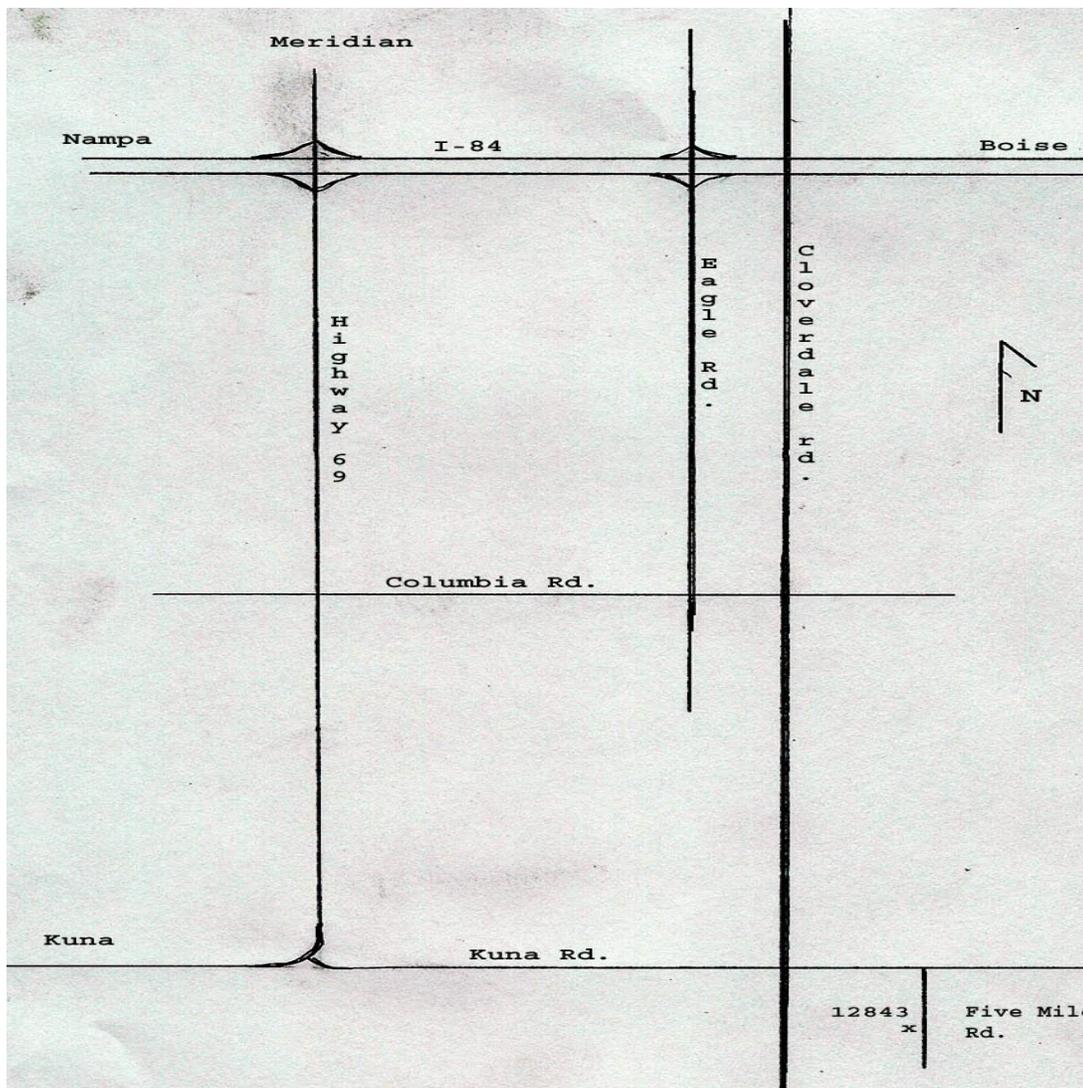
Ohio Department of Education – do a Google search on CSC_LP_S01_BD_L06_I01_01
<http://www.ode.state.oh.us/GD/Templates/Pages/ODE/ODEDefaultPage.aspx?page=1>

Idaho State University
<http://imnh.isu.edu/digitalatlas/geog/mining/deposits.htm>

Tony Griffin

Workshop Report

Your June workshop will be on June 19th at 6:30 pm. I will be needing volunteers to help instruct so please let me know if you can help. This is your opportunity to learn about the art of lapidary and get



some experience within this field. All we ask is that you help clean up the machines at the end of the night. If you are interested in attending give me a call. We usually have about eight people at a time. Marge has been helping those who have an interest in wirewrapping to get started. We are located at 12843 S Five Mile Rd off of Kuna Rd. See you at the meeting.

*Willa Renken
Workshop
Chairmen*

Workshop address:
12843 S. Five Mile Rd.
Phone 362-3941

The purpose of the Idaho Gem Club is to promote mutual, educational and scientific interests and benefits of its members in mineralogy, geology, gemology, the art of lapidary and kindred arts and sciences.

Dues:

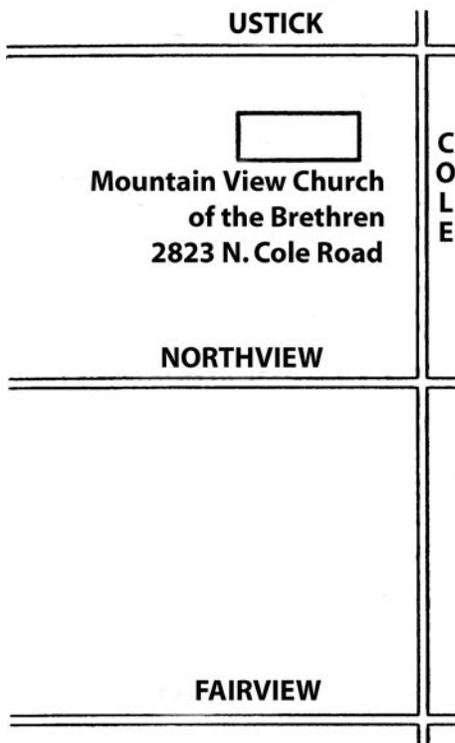
\$12.00 per person
\$15.00 per couple
\$17.50 per family

Subscription:

\$10.00 per year

General Meeting:

3rd. Tuesday of each
Month at 7:30 p.m.



The Whangdoodle Bird
(Often seen on field trips)



Idaho Gem Club, Inc.

P.O. Box 8443
Boise, Idaho 83707-2443

HAPPY
Fathers Day