

CALGARY LAPIDARY JOURNAL

VOL 47 NO 8

DECEMBER 2011



The Calgary Rock & Lapidary Club

www.crlc.ca

Mailing Address
110 Lissington Drive SW
Calgary AB T3E 5E3

MEMBER OF

Alberta Federation of Rock Clubs
Gem and Mineral Federation of Canada

CLUB MEETINGS

The **SECOND FRIDAY** of the month (except July & August)

HELD AT

BOW CLIFF SENIORS
(Spruce Cliff Community Centre)
608 Poplar Road SW. Calgary, AB

PROSPECTIVE NEW MEMBERS WELCOME



THE CALGARY LAPIDARY JOURNAL MONTH YEAR

2011 - 2012 EXECUTIVE

President	Mike O'Toole	945-1874
Vice Pres	Cal Luchuck	289-7574
Secretary	Sarah King-D'Sousa	246-5606
Treasurer	Lorne Alcock	239-4981
Past Pres	Kelly Jackson	240-0586

DIRECTORS & COMMITTEE MEMBERS

Membership Cards	Holger Hartmaier Pat Hausberg	938-5941 240-4514
Phoners	Pearl Broad Pat Hausberg	Toni Duh Trudy Martin
Public Relations		
Meet & Greet	Shelley Gibbins	228-1165
Journal	Trudy Martin	287-1570
Historian	Les Adler	289-9972
Programs	Murray Nicholson	240-2575
Pebble Pups	Lorraine Edwards	981-6432
Librarian	Lori Wichink	828-3479
Field Trips	Lorna Hightower	254-2716
Social	Carol Westley	686-7135
Fund Raising	Lori Wichink	828-3479
Study Groups	Sandy Bessey	922-9094
2012 Show	Bob Hightower	254-2716
Custodian	John Smith-Jones	259-2044
Parliamentarian	Trudy Martin	287-1570
AFRC Directors		
	Mike O'Toole	945-1874
	Lavern Novlan	281-1260
	Irene Novlan	281-1260
	Ehren Rebmann	240-2262

=====

Wit & Wisdom

Elbow grease is still the essential oil of industry.

For a Healthy & Productive New Year

Capsule 1	Prayer, Hope, Enthusiasm, Plans Take one every morning.
Capsule 2	Patience, Understanding, Goodwill Endurance Take one after lunch.
Capsule 3	Forgiveness, Reflection, Relaxation, Rest Take one at bedtime

The Calgary Lapidary Journal is the "official" publication of, and is published by The Calgary Rock and Lapidary Club, a non-profit organization dedicated to the sphere of the Earth Sciences pertinent to the lapidary hobby in Canada.

Members are requested to submit articles or reports for publication. All articles should be submitted to The Editor not later than the 15th of the month. Items from this Journal may be reprinted, **unless otherwise stated**, providing proper credit is given to both the original author and this publication.

The Journal is published 8 times per year and mailed to member families as part of their yearly membership dues. Non members may receive the Journal on Subscription. Nominal charge for advertisements - Items for Sale, Items Wanted or Shop & Swap.

Subscription requests and renewals as well as advertising submissions should be directed to:

THE EDITOR

Trudy Martin 287-1570
110 Lissington Drive SW
Calgary AB T3E 5E3
martintm@telus.net

Subscription Rate - \$ 10.00 per year.

<<< >>>

MEMBERSHIP

Membership is open to all interested persons. Dues are for the **CALENDAR YEAR**, payable annually, prior to December 31st each year.

Adult	\$ 25.00
Adult Couple	\$ 30.00
Senior Citizen	\$ 23.00
Senior Couple	\$ 26.00
* With Adult Membership	
* Pebble Pup (up to 14)	\$ 5.00
* Junior (14 to 17)	\$ 5.00
* Full Time Student (18+)	\$ 5.00
* Sponsored P.Pup or Jr.	
Without Journal	\$ 5.00
With Journal	\$ 10.00
Junior or Student Individual	\$ 10.00

Name Tags \$ 3.00

DUES ARE SUBJECT TO CHANGE

MEMBERSHIP CHAIRMAN

Holger Hartmaier 938-5941
151 Woodhaven Drive
OKOTOKS AB T1S 1L8

<hhart@telusplanet.net>



DECEMBER MEETING

Friday 9 December 2011 7:30 pm

Bow Cliff Seniors
608 Poplar Road SW. Calgary AB

PROGRAM Christmas Music with Sarah Curle
Video - Splendid Stones - National Geographic
Bring items for **The Mustard Seed Ministry**
See list of suggested items further along.

PEBBLE PUPS All that Glitters -
Gems that Shine & Gleam --- Christmas Craft
REFRESHMENTS Coffee, Tea, Juice and Goodies
will be served by the Social Committee.



JANUARY MEETING



Friday 13 January 2012 7:00 pm

PROGRAM Presentation by Charles Lewton-Brain

PEBBLE PUPS "It's Frosty out there"
Crystals & Icy Looking Rocks & Minerals - Crystal Craft



FEBRUARY MEETING

Friday 10 February 2012 7:00 pm

Our 53 nd Birthday

Cake and Goodies ** Awards Presentations

Be sure to come and help us celebrate

PROGRAM - Volcano Expedition - by Phil Benham
PEBBLE PUPS - Volcano World - Lava Rock Craft
REFRESHMENTS - Tea, Coffee, Juice and CAKE !



MEETING PROGRAMS

Murray Nicholson

LAST MONTH

Our Annual Auction was a lively night with many treasures bought and sold.

THIS MONTH

The December meeting will feature refreshments, Christmas Caroling and a video entitled Splendid Stones.

Don't forget to bring your donation for the Mustard Seed Ministry.

NEXT MONTH

We will start the new year with a presentation by Charles Lewton-Brain. The topic is yet to be confirmed.

FEBRUARY

is the BIRTHDAY MEETING with Awards Presentations.

MARCH

Our March meeting will be **Show & Tell**. Members are invited to reserve a table and share their interests and skills with the rest of us. Hopefully, we will have 4-6 different activity centers. Please call me @ 403-240-2575 if you are interested in participating.

+++ +++ +++

MEMBERSHIP

Holger Hartmaier

Thanks to all who renewed their memberships over the past month. There are still a significant number of members out there who haven't renewed yet, so I'm expecting a big line up at the December meeting and/or a lot of cheque filled envelopes in the mail over the next month.

Remember, **dues are for the calendar year** and are due by the end of December for the 2012 year. (A little known "secret", we give you one month's grace to end of January, knowing how busy we all can be in this social season.)

Since this is the last Journal before the Christmas holiday season, I'd like to wish everyone a Merry Christmas and health and prosperity for the New Year.

=====

DUES

There was a cub member named Hughes
Who waited too long to pay dues.
She was struck off the roster,
Did not realize it cost her
The classes, club field trips and news.

By Peter Martin - Scribe Dec.

PAGE 2

THE CALGARY LAPIDARY JOURNAL

DEC. 2011

MEET & GREET

Shelley Gibbins

We had another great turn out for this month's meeting and auction. There were 72 people in attendance, including 12 pebble pups.

Congratulations to Patric N., Pippa D., Bob H. and Lorne A. who all won door prizes.

Don't forget . . . the Calgary Rock and Lapidary Club now has its own Facebook page and Twitter Account – like and follow us! There will be more information coming

EXCHANGE NEWSLETTERS

These are set out on the side table. I'm pleased to see so many members browsing through them and taking a few home to read. It's always interesting to read what other clubs are doing in the way of programs and workshops. There are also many **excellent articles** that are too long to reprint in our journal.



SOCIAL

Carol Westley

Please make an effort to attend the December meeting and share the Christmas Spirit. There will be treats to go along with the coffee.

Christmas Charity

Once again we will be collecting items for **The Mustard Seed Ministry**. Their needs are more along the clothing, personal care items and gift certificates rather than non-perishable food items that we collected in years past. Please be generous, the need is great and the winter can be long and cold.

Their **Wish List** includes: underwear & socks, disposable razors, shaving cream, shampoo, soap, toothbrushes, toothpaste, deodorant, mittens, gloves, scarves, large bath towels, bus tickets, gift certificates, and passes or vouchers to Tim Horton's. Cheques are also acceptable. A receipt will be issued at a later date.

Another suggestion was Christmas type things - wrapping paper, gift tags and ribbon, scotch tape, new (unwrapped) gifts for children 0-15. I suppose even Christmas Cards would be welcome. Please be generous.



Using the Club's Facebook and Twitter

By Shelley Gibbins

The Calgary Rock and Lapidary Club now uses social media! We have established a Facebook fan page and created a twitter account so that we can share announcements and engage with the public. These outlets will help us to advertise the club, including the annual show, recruit new members, educate people on lapidary, as well as communicate with other members. Here are a few basics to get you started:

Facebook

You will need to have your own account to use our fan page, which is entitled the Calgary Rock and Lapidary Club. You can find it by typing this name into the search box.

- "Like" us – click the "like" button – now you can participate and keep track of the club.
- Click on the word "Wall" (left hand side under our logo). In the center of the page is a "status" box where you can type your comments or any other information. You may also add a photo, link, video, or question by clicking on the appropriate word.
- Click on the word "Info" to find out the background of the club and what our organization does (this is copied from our website page).
- Click on the word "Photos" to see any pictures of the workshops, auctions, events, field trips etc. If you would like to add a photo here, please let me know and I can upload it for you.
- Click on the word "Events" to see what activities are coming up in the club.

Please remember – our aim is to interact with the public, so keep in mind that anything you share (pictures, comments) can be seen by anyone who has liked our Facebook page, whether they are members of the club or not.

Twitter

Our "twitter handle" is **@CRLCrockhounds**. You will need to have a twitter account to follow the information provided by the club. In this case, I am the only person who can "tweet" for the club. If you would like me to share something, please feel free to let me know so that I can share it. Right now we are following the Tucson Gem Show and a person selling lapidary equipment. If you have suggestions regarding accounts that the club might like to follow, please let me know.

If you have any questions or problems, please feel free to contact me by e-mail at **sapphire13@shaw.ca**

<< >> >>

Question

What did farmer Brown say to his wife last spring?
It's time to **Hoe, Hoe, Hoe !**

WEEKEND WORKSHOPS

Sandy Bessey

There are workshops available to sign up for January and February, 2012.

You can sign up at either the General meetings or at the Weekend Workshops. Remember, when you sign up please take a copy of the Student Confirmation that is paper clipped to the back of that sign up sheet. This has all the information you require for your workshop. You can also e-mail me and I can add your name to a class as well.

slbessey@telus.net

A friendly reminder that you need to be a CRLC member to take our Weekend Workshops. For those who are not members and wish to take a workshop, please contact Holger Hartmaier, Membership Director, to pay your dues and become a member.

The following workshops are available:

January 21

- Beaded "Y" Necklace
- Free Form Hammered Pendant

January 28

- Wig Jig Wire Wrapping

February 18

Do you have a class you would like to teach?

February 25

- Lapidary
- Sinking Workshop

There is no WEEKEND WORKSHOP for December.

=====

BOW CLIFF SENIORS

CRAFT SALE

SATURDAY

3 DECEMBER 2011

10 am to 4 PM

There will be a wide variety of crafts

rugs, needlework, cards, tree decorations, baked goods, jewellery and lapidary items.

tea, coffee & soda for sale

Mark the date on your calendar.



**BE A VOLUNTEER - IT PAYS -
in more ways than one!**

<> <> <>

Silver Steggies

When a member has reach **25 years** of continuous membership, this milestone is recognized with a **Silver Steggie Pin**. Holger will check the membership list to see who qualifies this year.

Last year's recipients were Linda Brydon & Judy Shiells.

My Friend Murphy

Only a fool tests the depth of the water with both feet.

If you would reap praise, sow the seeds of gentle words and useful deeds.

Wise sayings often fall on barren ground, but a kind word is never thrown away.

FEBRUARY

Just a quick reminder, since there is no Journal prior to the January meeting. February, because it is our **Birthday Meeting**, is also, traditionally, the meeting when awards are presented..... Nothing like getting extra mileage out of the Cake and Cookies celebration.

Life Membership

Is there is a member you feel has given extra meritorious service to the club and to the hobby? You may want to nominate them for a Life Membership. Speak to **Trudy** or one of the **Directors** to get a copy of the criteria required. Write up your submission, outlining these qualities and hand it in to Trudy Martin, before or at the January meeting so that the Board can review and vote on any submissions at the February Board of Directors meeting.

The Volunteer Award

The requirements for this **AWARD** are not as stringent as those for Life Membership.

ANYONE who **VOLUNTEERS** to do **ANYTHING** for the club is an **eligible candidate**.

Look around the hall - who comes every meeting night to set up the tables and chairs? Who stays behind to make sure everything is put away, the floor swept and the brown cupboard locked ? Who does their **JOB** - quietly, in the background, but essential to the club operation? If a name pops up - write something about this person and turn it in to **Trudy Martin** so it can be presented, along with any other submission, to the Board of Directors at the February meeting.

The Board will vote and the lucky winner gets a **\$75.00 GIFT CERTIFICATE** at a local lapidary store.

FUND RAISING**Lori Wichink**

The Annual Auction on Friday November 11 was a great success, with over 70 lots for sale and some heated and hilarious bidding for beautiful rocks, gem material and equipment!

Thank you to all of the volunteers who helped make the auction run smoothly: Trudy and Mel Martin, Dave Blair, Bruce Deeks, Gillian Macartney, Dale Nielsen, Bernadette Roberts and Diane Wichink. Mel and Dave trained Bruce to run the back room during the auction as Mel is retiring from that duty, and Gillian trained Dale and me to run the lot sign-in table. Bernadette and our Mom Diane ran the bidding paddle sign-out table. Special thanks to Gerry Dilschneider for coming in again to be auctioneer. Thanks to everyone else who made the meeting run smoothly.

The Raffle Table resumes next month, and as always we are accepting donations. We are still doing tailgating at the monthly meetings, if you want a table to sell stuff at the monthly meetings please let me know, though you might not have much left for sale after the auction. The fee for a table is a donation to the Raffle Table.

ROCKS IN BOOKS**Lori Wichink**

At the November meeting, **Dan Quinsey** was there selling copies of his book "**Moose Mountain, Alberta: Exploring The Natural History Of Canyon Creek And Area.**" The Club has acquired a copy for the Library, and I'll be reviewing this book once I've had a chance to read it.

Thanks to Pebble Pup **Rylee Rosenberger** for the donation of three books to the Pebble Pups section of the Library. These books are called "**Question and Answer Adventures: Rocks,**" by Eva Knox Evans, "**Rock Collecting,**" by Roma Gans, and "**Bone Sharps, Cowboys and Thunder Lizards,**" by Jim Ottaviani and Big Time Attic, a graphic novel about the adventures of some paleogeologists who found fossils in the Wild Wild West.

The Pebble Pups have a category of books in the library, but these books are available to all of the kids, big and little, who are members of the Club. I've overheard people at the monthly meeting while perusing the available library books reminiscing about reading this or that book when they were kids, so for a fun trip down memory lane, you are all welcome to borrow them and reread them.

Thanks to **Peter Meyer** for the donation of a couple bundles of **National Geographics** with articles of interest to rockhounds. Thanks to **John Smith-Jones** for a book and some library supplies he found from when he was the Club's Librarian.

Thanks to **Diane and Steve Dryer**, my neighbours, who gave me tickets to "Fire And Ice" at the Jubilee Auditorium earlier this month. It was an excellent presentation, put on by the **Canadian Society of Petroleum Geologists**, on volcanoes around the world and the effects of glaciation

on the mountains of the Yukon by two scientists who go there and study them. While there I acquired some booklets on volcanoes and other geology magazines I'll be adding to the library.

At the auction, one of my happy purchases was a jarful of opal chips that I plan to play with someday and see what kind of mosaic item I can make with them. From the land down under, Australia, and other locations around the world such as Mexico and Brazil, comes these beautiful, multi-coloured, iridescent gemstones. To study up on opals from Australia, the library has several books about opals, as well as a DVD on how to cut and polish them.

"**A Field Guide To Australian Opals,**" by Barry O'Leary, is for opal miners and collectors, gemmology students, and rockhounds. The book goes into the many mineralogical, gemmological, and commercial complexities of the opal gemstone and explains the scientific factors involved in opal formation. There is a section on how to assess the value of opals and includes many colour pictures of all types of opals and the wide variety of patterns and colours found in them, along with a section on how opals are formed, with several photos under scanning electron microscopes. It traces the history of the Australian opal industry, and names every recorded opal deposit in Australia, including maps where they can be found. This would be a good starting point for research if you're planning a rockhounding trip to Australia for opals.

"**Australian Opals In Colour,**" by Nancy and Ron Perry, also has lots of colour pictures of all kinds of opals, from rough through to finished jewellery. This book takes the reader through all the Australian opal fields, describes the types of opal mining, the lives of the miners, and what a visitor might see and do at the opal fields of Lightning Ridge, Coober Pedy, Andamooka and Queensland. There are lots of colour pictures of the mines and landscape.

Once you've acquired your opals, whether from a field trip or from a friendly or commercial source, you'll want to watch "**Opal Cutting Made Easy,**" with Paul B. Downing. This DVD is about 36 minutes long. Mr. Downing has 2 basic rules of cutting opals: 1) Cut slow, and 2) Cut even slower. He demonstrates the nine steps of cutting opals, and recommends that it is not a good idea to skip step 2, and also that you should use the sanding wheel, not the grinding wheel, to bring out the colour, or you could ruin the opal.

These steps are: 1) pre-grinding, to remove rock and waste opal material, 2) planning, where and how the colours lie in the stone, 3) exposing the fire, using sanding, not grinding wheels to bring out the colours, 4) pre-shaping the cab, 5) dopping, 6) final shaping, 7) sanding and polishing, 8) finishing the bottom, and 9) enjoying your lovely gemstone. The Library also has his companion book "**Opal Cutting Made Easy,**" which goes into much more detail of how to work with this beautiful gemstone.

ANNUAL SHOW Hightower

Bob

The show committee is getting ready to "kick it into high gear" with the preparations for the 2012 show.

Book marks and posters have been printed and are ready for distribution. Please pick some up at the next meeting to post on community bulletin boards and your place of work. We are working on the design for the pin and hope production will soon be underway.

As always we welcome any and all help in the preparation and running of the show. No matter how much spare time you have any help is always appreciated.

In the next general meeting leading up to the show we will have a 'blitz' trying to get volunteers for the show.

There will be no Show Committee meeting in December and then there are only four more meetings until the show.

Have a Great Christmas and Happy New Year!
<bhightower@shaw.ca>

VOLUNTEERS

We tried this last year and it seemed to be an incentive to get more volunteers. If you sign up for a shift as a ticket seller or ticket taker, to work in the fish pond, silent auction, information booth or to help with the set up or take down, you will be given a **volunteer** ribbon and free admission to the show for Saturday and Sunday.

SECURITY

Security at the show is a major concern - not just for the show committee but for all CRLC members. As a member attending the show, if you notice any suspicious activity you should report it immediately to a show committee member or to one of the security guards. Be aware of what is going on around you - especially if you are demonstrating and have material set out on the table beside you.

COMMITTEES

The position of **Co-Chairman** is still vacant. If you think you would like to take on this position please talk with one of the show committee members to find out what the job entails. You don't want to jump in with both feet and then find the water is deeper than you thought. However, it is a great way to learn all about the show.

SHOW DEALERS

Mel Martin

We will have our regular **20 dealers** at the show again this year. They will all be bringing interesting items for you to buy to add to your collections.

The Show Committee,
would like to wish everyone a

**Very Merry Christmas and a Happy & Prosperous
New Year !**

PUBLICITY

Trudy Martin

Posters and book marks will be available at every meeting for members to take and distribute. We'll even show you how to put a Poster Pocket on the bulletin board at your office along with a full sized one. We all need to do our part publicizing the show.

We have members living in every quadrant of the city so a Poster Blitz the end of March would help publicize the show. Do any of you have friends in Cubs, Scouts, Guides, Brownies that we can contact and give them posters and book marks to hand out. Also - radio stations that have **FREE Community Events Announcements**. I can only listen to one station at a time



SHOW TICKETS

Cal Luchuck

We are hoping to have the show tickets back from the printer for the December meeting. They make good Stocking Stuffers for those 'hard-to-buy-for' relatives and friends.

If you would like to volunteer for Ticket Selling or Ticket Taking the shifts are:

Saturday: 9 -11 am, 11-1 pm, 1-3 pm, 3-5 pm

Sunday: 10 am - 12 pm, 12 - 2 pm, 2-4 pm

Responsibilities of the Ticket Sellers are to sell tickets to the public and direct them to the Ticket Takers Table.

The Ticket Takers tear off the short end of the ticket and direct the public to the table where they can fill out the centre portion of the ticket for the Hourly Door Prize.

That's It! We will have Sign-Up Sheets available at the show table during monthly club meetings. Sign up early and get the best shifts.

PRE SALE TICKETS

For every \$10.00 worth of tickets you purchase, your name will be entered to win one of three choice prizes. It's a Win-Win situation.



SHOW CASES

Pearl Broad

An Exhibitor Form is on the web site and I will have copies at all meetings until we have our quota of **60 show cases**. You don't want your entry form to be number 61!

If anyone wishes any information about items to display, size of case, etc. please phone me at **403 - 282-2331** or e-mail at **pearlb2@telus.net** and I will be glad to get back to you. Now is the time to start making plans for your display. Don't wait until April 1 st.

Putting in a show case give you **FREE** admission to the show **PLUS a Show Pin !** What more could you ask for? We need everyone to get involved in order to have a successful Show. Thanks You.



FISH POND

Karen Nielsen

We need to stock the fish tank for all those kids who will be coming to the show to catch a **Big One** - bigger and better than anything they caught last year.

We will have Fish Pond Work Bees at the Weekend Workshops in the new year and will also prepare **Take It & Make It Kits**. Members take the kits home, make up the items and return them at the next meeting. This is an easy way for **everyone** to become involved and participate.

##

SILENT AUCTION

Mike O'Toole

If you have material to donate - rough rock, slices, minerals, fossils, books, even equipment - give me a call **403-945-1874**. While I live in Airdrie, I come into the city every day for my job. I'll gladly come by and pick up your donations or you can bring them to the general meetings..

The Sign Up Sheets will be available at the meetings in the new year. Get your name on the list early so you get the Two Hour Shift that suit you best - early morning or late afternoon. It's such a fun time at the Silent Auction booth you will want to sign up for more than one shift. Be part of The Team.

\$\$\$ \$\$\$ \$\$\$

SET UP & TAKE DOWN

John Smith-Jones

We have a lot of NEW members who maybe don't understand what goes on at **SHOW TIME**. Let me explain:

Early Friday morning we mark out the floor - where each dealer is going to be as well as the information, fish pond, silent auction and show cases. When the tables arrive, the required number of tables are placed at each dealer spot. **This is where we need some YOUNGER members to help move tables.**

The dealers come in first. They are able to drive their vehicles to their space, unload their goods and then move their vehicle to the parking lot.

Once the dealer vehicles are out of the arena we can set up and skirt the tables for the show cases. This is where we **REALLY** need help. The showcases are in our storage room at the arena. They need to be trundled in on the pull carts. We also have to bring in the boxes of light brackets and light bulbs. see, it doesn't happen with the wave of a magic wand !

When it comes time for **Take Down** - everything goes in reverse. Once the cases are emptied they need to be folded and stacked, skirting needs to be rolled, light bulbs and light brackets put back in their respective boxes and then **EVERYTHING** trundled out to the storage room and put away until next year.

That is why we need some of you **younger** members to join the committee and find out how things are done. A few of the **long serving committee members** are ready to retire and let the younger generation look after things.

=== ===

W 5

WHO
WHAT
WHERE

The Calgary Rock & Lapidary Club
Annual Gem, Mineral & Fossil Show
West Hillhurst Arena

WHEN

1940 - 6 Ave NW, Calgary Alberta
Saturday 5 May 2012 9 AM - 6 PM
Sunday 6 May 2012 10 AM - 5 PM

WHY

To offer our members, as well as other rockhounds, an opportunity to show off their talent and their work.

To show the general public what a great hobby we have and what fun people we are.

To offer the members and the general public an opportunity to purchase quality items at reasonable prices.

To create an interest and educate young people in the wonderful world of rocks, minerals and fossils.

SPECIAL FEATURES

- ❖ Fish Pond for the kids where they will 'catch' pike pendants, trout treasures and bass bolas for 50¢
- ❖ Silent Auction where young and old rockhounds can bid for quality items at a reasonable price.
- ❖ Guest Participants: - The Archaeological Society of Alberta, The Alberta Paleontological Society, The Dinosaur Research Institute, The Stone Sculptors Guild of North America and The Calgary Faceters Guild
- ❖ Free parking at the Arena and at Queen Elizabeth School.
- ❖ Food concession at the arena.

If you need to know anything more about the show, please contact the appropriate committee chairman.

Chairman	Bob Hightower	254-2716
Advisor	Wayne Braunberger	278-5154
Treasurer	Lorne Alcock	239-4981
Secretary	Lorna Hightower	254-2716
Tickets	Cal Luchuk	289-7574
Publicity	Trudy Martin	287-1570
Exhibits	Pearl Broad	282-2331
Fish Pond	Karen Nielsen	288-4054
Silent Auction	Mike O'Toole	945-1874
Dealers	Mel Martin	287-1570
Demonstrations	Pamella Stewart	462-8466
Equipment	John Smith-Jones	259-2044

VOLUNTEERS - YOU, YOU, YOU and YOU, TOO.

*** **

If MURPHY was a Member of the Show Committee

If anything can go wrong - it will - in triplicate.

Two wrongs are only the beginning.

Where there's a Will, there's a Won't.

So, if you wish to borrow a book or audio-visual material from the library, the list is available on the website under Library. Email me, use Rock Club Books as a subject so if it goes to my junkmail box I'll still see it, at lwichink@hotmail.com or call me at **403-828-3479** and if I don't answer – I work graveyard shifts and sleep funny hours sometimes, so the best time to call is after three in the afternoon – leave a message (sometimes it rings about ten times before voicemail kicks in). Let me know which book or movie you'd like to borrow and I'll bring it to the next meeting. If you have books you want to return, bring them to the next meeting. You can find me at the Raffle Table.

=== +++ ===

MINERAL OF THE MONTH Holger Hartmaier

The Rock Forming Minerals- continued

The Scapolite Group

As a brief note, our previous articles in this column have been about the rock-forming minerals. So far we have been describing the more common silicate minerals, which are typically found as constituents in igneous rocks. This month, we'll discuss the Scapolite Group of minerals, which are typically found in high-grade metamorphic rocks, such as schists, gneisses and amphibolites, and in contact metamorphic rocks in association with diopside and grossular.

Scapolite group minerals are aluminosilicates having compositions similar to feldspar, but are slightly softer (hardness is 5 to 6). These minerals form a solid-solution series in which sodium and calcium replace each other within the molecular structure. **Marialite**, $\text{Na}_4\text{Al}_3\text{Si}_9\text{O}_{24}\text{Cl}$ is the sodium end-member and **meionite**, $\text{Ca}_4\text{Al}_6\text{Si}_6\text{O}_{24}(\text{CO}_3)$ is the calcium end-member of the series. The potential existence of the mineral **silvialite**, $\text{Ca}_4\text{Al}_6\text{Si}_6\text{O}_{24}(\text{SO}_4)$, the sulphate analog of meionite was originally hypothesized in 1914 by G. Tschermak, an Austrian mineralogist professor. The mineral is named after his daughter, Silvia

Hillebrand. In 1999, silvialite became a recognized mineral after specimens of this mineral were discovered in McBride Province, North Queensland, Australia, the type locality.

All rock-forming scapolites are intermediate solid-solutions of the two end-members. The pure end-member minerals have been produced synthetically, however in a natural state they are found with at least 20% substitution of one for the other. Therefore the end-member compositions are theoretical only. The group name wernerite for these minerals was proposed at the same time as scapolite, but is now not generally used.

Crystallized specimens of scapolite are found in eastern Canada in Quebec and Ontario. Here they are found associated with contact metamorphosed limestones, marbles, gneiss and skarn zones. Scapolite crystals are tetragonal, forming four-sided prisms. The cleavage is imperfect, though distinct and helps to distinguish it from quartz. Sometimes, the cleavage has the appearance of splintery wood in massive specimens. The color may be white, gray or pale green. These minerals are transparent to translucent with a vitreous luster when fresh.

Scapolite can also be distinguished by its orange or yellow fluorescence under ultraviolet light.

References:

- Back, M.E., and Mandarino, J.A., "Fleischer's Glossary of Mineral Species 2008", The Mineralogical Record Inc., Tucson, 2008.
- Bernard, J.H. and Hyrsl, J., "Minerals and their Localities", Edited by Vandall T. King, Granit Publishing, Prague, Czech Republic, 2006.
- Dietrich, R.V. and Skinner, B.J., "Rocks and Rock Minerals", John Wiley and Sons, Inc., 1979.
- Pough, F.H., "A Field Guide to Rocks and Minerals", The Peterson Field Guide Series, 4th Edition, 1976, Houghton Mifflin Company, Boston.
- <http://webmineral.com/data/Silvialite.shtml>

NOTHING

I am using this time, while I have nothing to do, to let you know that I have nothing to say. People tend to look at the word nothing and belittle its importance. However, it can mean life or death, success or failure, joy or sadness.

Mountain climbers have died when they stepped on it. Parachutists are upset when they pull the ripcord and it comes out. Farmers have lost their farms when they grew it. Ball players and coaches have lost their jobs when they scored it. It is also a reason for joy when it represents the sum of your debts.

It is what you earn when you do it. I have saved it over the years and now have it in the bank account. It is what you generally learn from a politician making a speech. It is often discussed at meetings. Arguments and fights start over the subject. I often find it in my mailbox and, only last night, received it from the milk machine.

I could go on and on, but it will mean nothing. I just want you to be aware, as you go through life, that when you get some time to relax, you should think on this subject. Don't try to thank me, it's **nothing!**

By - Steve True in - Skagit Gems via - Spokane Rock Rollers Dec. 2003

FIELD TRIP

Lorna Hightower

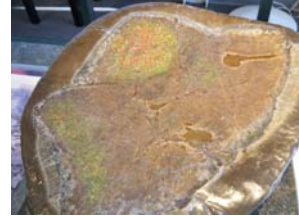
What a beautiful day for a trip to the mountains! On Saturday, November 19th, we had 14 members that convoyed out to Canmore for the day.

First stop was a tour of the **Ammonite Factory** where we learned about the history of the fossil shells of the ammonite sea creatures that lived in the warm inland sea 70 million years ago. We learned that Alberta ammonite, mined in the Bearpaw formation in southeastern Alberta, is the most colourful ammonite found in any other area of the world. The tour included the entire process of finishing the ammonite gem. Quickly diminishing supplies indicate ammonite may only be available for another five years!

Club members had lunch on their own before heading to our second tour of the day at **Gorgeous Glass**. Doug and Glennie of Gorgeous Glass gave us a tour of their workshop. As well, we met Trish Nakagawa of **Nik Naks** who now shares the studio with Gorgeous Glass. We saw the process of making their dichroic glass jewellery and fused glass works of art.



View of Three Sisters



Dragon Skin Ammolite

A GOOD YEAR

A brand new year is given us, it could be likened to a stone.
It can be polished and enhanced, or it can be left alone.

We can sit and watch it pass, and wish we had our youth,
Or we can use the years we have in search of love and truth.

This year can be a better year, we can shine it to a glow.
No year is bad, no year is good, just people make it so.

Let's plan this year to be our best by sharing love with others,
For peace will never thrive on earth until we live as brothers.

From - Chiasto-Hi-Lites
Via Surrey Rockhounder
December 2008



MURPHY'S LAW FOR EDITORS

Keep an article long enough and you will finally find the
WRITE month to use it.

Following our recent field trip to Canmore and visiting the **Gorgeous Glass Studio**, this article is a perfect fit for this issue of The Journal.

WHAT IS DICHROIC GLASS ?

Most of us have seen the fabulous jewelry objects made with dichroic glass, and some of us have worked with it. Like many of the synthetic materials we've used in lapidary and jewelry, dichroic (**Dye-Cro-lick**) glass was developed for another use other than jewelry. The word **dichroic** comes from two Greek roots - **di** - for two and **chroma** for color. Thus, dichroic literally means **two colored**.

First developed by NASA in the 1950's for use in satellite mirrors and optical filters, the glass is made by vaporizing coatings onto glass in a vacuum chamber. That golden sheen you see on the face masks of our astronauts as they do their space walks is really a dichroic coating meant to protect against the glare of natural and obviously unfiltered sunlight.

The various ultra-thin coatings are metallic oxides. Gold, silver, titanium, chromium, aluminum, zirconium, magnesium, and silicon are the metals used. As the oxides are exposed to high temperatures and a high voltage electron beam, they are vaporized and deposited onto the surface of the glass. Each metal oxide produces different colors on the glass. Often several different oxides are deposited on the glass to produce varying effects. These thin layers have a total thickness of three to five millionths of an inch!

The dichroic coating itself has no color. The colors are created by light striking the coatings on the glass. Each piece has three colors associated with it - a reflected color, a transmitted color and a third reflective color that can be viewed at a 45 degree angle. This is what causes the glass to change color when you turn the piece.

The resulting plates of glass can then be fused with other glass in a kiln. Certain wavelengths of light will either pass through or be reflected, causing an array of color to be visible. Colors vary, even with using glass from the same larger piece because of variations in the firing process and thus, each piece of fused dichroic glass becomes unique.

Although dichro is an expensive material due to the high cost of manufacture (a 4" x 4" clear piece can cost about \$14 while some patterned or textured sheets of the same size can run as much as \$65 each), the resulting jewelry can be very striking. Dichro is available from many sources.

BY - Steve Weinberger In - Hound's Howl - April 2008

References:

Becky Edmundson, instructor at Wildacres
Wikipedia <en.wikipedia.org/wiki/Dichroic_glass>
Artisan Dichroic <www.artisandichroic.com>
Trezora Glass <www.trezora.com>

ROCK & MINERAL QUIZ

Are you a rockhound or a rockhead? Test your knowledge of mineral and rock names by putting one of the names listed below in each blank. (Hey, how hard of a quiz can this be if I'm giving you the answers in advance?) **HINT:** it helps if you say the mineral and rock names out loud.

(a) Albite (b) Apatite (c) Chert (d) Cinnabar
(e) Coal (f) Diamond (g) Fluorite (h) Gabbro
(i) Garnet (j) Granite (k) Gneiss (l) Gypsum
(m) Mica (n) Onyx (o) Pyrite (p) Quartz
(q) Rubies (r) Scheelite (s) Spinel (t) Zircon

- The geologist played poker but would up losing his _____.
- The bar where mineralogists break the Ten Commandments is called the _____.
- If we _____ rocks, we'll all lose our teeth.
- There are four _____ in a gallon.
- "What shall we give Mike?" "Let's give _____ new minerals for his collection."
- Fracture of the _____ column usually results in paralysis.
- All of the talkative geology students were put in one row, soon christened the "_____".
- When Fred Zir was swindled of his jewels, it was called the Great _____.
- You sent her flowers? What a _____ thing to do.
- If I don't get this _____ when someone walks in he'll fall through to the basement.
- The mineral that is the very symbol of hunger. _____
- The con man tried to _____ mineralogists with a fake ruby, but he got caught.
- At the circus, a clown threw a fake rock at another and got a _____ in his face.
- Put Nick's book _____ shelf where it belongs.
- A baseball player's favorite gem. _____
- If a rube is a type of hick, does it follow that hickies are _____.
- Says one hip geologist to another, "Hey, that's really _____ man."
- How to insult a geologist: Look into his ear and say, "I _____!"
- If you drop a rock on your foot while in polite company, you should say, "_____ all!"
- Of all things, we must never take rocks for _____.

By - Harold Reynolds

From - Harold Reynolds' Humour Collection

Via - Petroglyphs - May 07

And Hound's Howl - April 08

COMING EVENTS C R L C

Tue. Dec. 6	Board of Directors Meeting	7:00 pm
Fri. Dec. 9	General Meeting Donations for Mustard Seed Ministry	7:30 pm
Tue. Jan. 10	Board of Directors Meeting	7:00 pm
Fri. Jan. 13	General Meeting	7:00 pm
Sat. Jan. 21	Weekend Workshop	9 am - 4 pm
Sat. Jan. 28	Weekend Workshop	9 am - 4 pm
Tue. Jan. 31	Show Committee Meeting	7:00 pm
Tue. Feb. 7	Board of Directors Meeting	7:00 pm
Fri. Feb. 10	General Meeting Club Birthday	7:00 pm
Sat. Feb. 18	Weekend Workshop	9 am - 4 pm
Sat. Feb. 25	Weekend Workshop	9 am - 4 pm
Tue. Feb. 28	Show Committee Meeting	7:00 pm

AMERICAN FEDERATION SHOWS**ATTENTION EDITORS**

All the American Federation shows will have an Editors Breakfast and Meeting. Attend one or more if you can.

It's a great way to get to know your fellow editors and SCRIBE members.

[TM]

2012**American Federation Shows**

May 18 - 20	Northwest Federation Kennewick, Washington
July 13 - 15	California Federation Riverside, California
July 26 - 29	Midwest & American Federations Minnetonka, Minnesota
Aug. 25 - 26	South Central Federation Jasper, Texas
Sept. 15 - 16	Eastern Federation Harrisburg, Pennsylvania

We will print the other federation show dates once the information is received. In the meantime - check out their web sites. Go to <http://www.amfed.org/> and from there to the federation you are interested in.

Do you Qualify to be the Club Newsletter Editor ?

This test was developed to determine if new patients at a seniors' facility needed admission to the Alzheimer's Ward, also a good test of Creative Thinking:

We fill up a bathtub with colored water, then offer you a teaspoon, a soup ladle, a cup, and a bucket and ask you to select one and then empty the tub. If you selected the bucket, you were obviously distracted by the color of the water. If you selected the teaspoon, soup ladle or cup - they will have a bed for you next week.

If you **pulled the plug**- then you qualify to be the Editor of your club newsletter !

~~~~~

**NEW YEAR RESOLUTIONS**

Write injuries in the dust but kindness in stone.

Life is a picture. Paint it well.

**WORDS TO LIVE BY**

The end never really justifies the meanness.

Minds are like parachutes. They only function when they are open.

~~~~~

**ATTENTION****ALL EDITORS****Annual SCRIBE Meeting & Editors Get-to-Gether**

Saturday, 21 January 2012

09:00 AM - NOON

Senior Citizen's Centre, Moon Mountain Road

QUARTZSITE, ARIZONA

What Every Editor Needs

Hints, Tips, Handouts, Prizes

PLUS

Coffee, Donuts and Friendly Faces !

What More Could You Ask For ?

~~~~~

**BIRTHSTONE FOR DECEMBER**

ZIRCON, a silicate mineral, Zirconium silicate, is the principal source of zirconium. Zircon is widespread as an accessory mineral in acid igneous rocks. It also occurs in metamorphic rocks and detrital deposits. It occurs in beach sands in many parts of the world, particularly Australia, India, Brazil and Florida. The high refractive index and dispersion of zircon causes it to approach diamond in fire and brilliancy. A lovely blue stone may be made by heat treatment under reducing conditions.

### Alberta Federation of Rock Clubs



Highlights of Nov. Directors' Meeting

All seven clubs were present. Elections for office were held:

President: Ron Biel, Lacombe.

Vice-President: Ed Gilchrist, Lethbridge.

Secretary: Pauline Zeschuck, Edmonton.

Treasurer: Irene Novlan, Calgary.

**May Daze 2012** will be hosted by the Medicine Hat Rock and Lapidary Club. Plans are well under way. One field trip will be to the Medalta Pottery museum which has been revamped. More information i.e. field trips, directions for getting to the hall, etc. will be made available as time progresses.

**May Daze 2013**, the AFRC's 50<sup>th</sup> Anniversary, will be hosted by Central Alberta Rock Club (Red Deer). It is also Central Alberta's 50<sup>th</sup> year as well.

Plans are under way for this special event. The AFRC would like to produce a special AFRC lapel pin for the 50<sup>th</sup> Anniversary. It was decided that the design for the pin be open to all club members. The design must have Alberta Federation of Rock Clubs and 50<sup>th</sup> Anniversary on the pin. All entries must be submitted to the AFRC delegates prior to the 2012 May Daze meeting. If you plan on coming to Medicine Hat for 2012 you may bring your entries with you. Entries will be judged during the weekend. The pins will be sold on a pre-order and prepaid basis.

A discussion was held on the merits of converting our VHS tapes to DVD.

The AFRC is looking for two missing books from the library they are: **Ammolite 2** by Donna Barnson and **The Complete Metalsmith** by Tim McCreight. If you have these books or one of them, please return to an AFRC representative. No questions asked.

Submitted by Irene and Lavern Novlan

=== === ===

### Gem & Mineral Federation of Canada



Highlights of the GMFC Directors teleconference held Sunday, October 30

⌚ Linda Zepik will be stepping down as GMFC Secretary. Clubs are asked to canvas their members for someone to fill this position.

⌚ Peter Hagar is working on a meteorite display.

⌚ There were 5 applications for Junior Scholarship. Two \$500.00 awarded - one went to Lacombe, AB the other to Hastings, BC.

⌚ The \$1,000.00 scholarship went to U of C as requested by the nominee, Pat Hausberg.

⌚ Doug Murray <[sprmurray@shaw.ca](mailto:sprmurray@shaw.ca)> hopes to have the GMFC Newsletter out in December.

++++

### PALEO 2012 - APS SYPOSIUM 2012

Presented in conjunction with  
The Mount Royal University Earth Sciences  
and the C.S.P.G. Paleontological Division

**Saturday March 18, 2012 9 AM - 5 PM**

**Mount Royal University  
4825 Mount Royal Gate SW Calgary, Alberta**

This symposium will contain presentations from a mix of amateur and professional palaeontologists. The aim is to showcase palaeontology to the general public and to provide an opportunity for contact between the Alberta Palaeontological Society, industry, government and educational facilities. The event is free and all are welcome to attend. Families are encouraged to bring fossils to our identification booth where APS members will do their best to provide you with information.

For more information go to the Society web site

[www.albertapaleo.org](http://www.albertapaleo.org)

click on meetings / events

=====

### ARCHAEOLOGICAL SOCIETY OF ALBERTA CALGARY CENTRE

Would you like to join like minded people one evening a month to discuss current archaeological issues and attend presentation regarding ongoing research?

If so, join us for our 2009 - 2010 Speaker Series.

**Tom Oliver Room ---- Earth Sciences 162  
The University of Calgary**

7:30 pm on the 3<sup>rd</sup> Wednesday of the month.

**All lectures are FREE**

**Refreshments and Discussions follow each Lecture.**

**January 18** - Chris Jazz (Royal Alberta Museum)  
Changes in Assemblages in Late Pleistocene Megafauna of Central Alberta: Implications for Extinction Hypotheses.

**February 15** - Marcel Kornfeld (University of Wyoming)  
Living on Top of the World: The First Rocky Mountaineers.

**March 21** - Augusta Edwald (University of Aberdeen)  
Becoming Modern: The Archaeology of the 19<sup>th</sup> Century Emigration from Iceland to New Iceland.

**For more information go to the Society's web site.  
[www.arkyalberta.ca](http://www.arkyalberta.ca)**

**The Archaeological Society of Alberta will be participating in the CRLC SHOW.**

**Please stop at their display and talk with their volunteers.**

-----

**BENCH TIPS**

by Brad Smith

**DEPTH GAUGE FOR DRILLING**

Sometimes you need to drill a number of holes all to the same depth. One quick and easy way to do this is to wind some tape around the drill bit so that the tape just touches the part surface when the hole is deep enough.

You can do this either by measuring from the tip of the drill to the tape or by drilling one hole correctly, leaving the bit in the hole, and wrapping tape around the bit at the surface level.

**CUTTING A BOLT**

Whenever you have to cut a threaded bolt shorter, it's always difficult to get the nut to thread back onto it. And the smaller the bolt, the more difficult this is. The problem is easily solved by screwing a nut onto the bolt before cutting it.

So here's how I do it. Screw a nut onto the bolt, grip the bolt by the piece to be sawed off, saw the bolt to the desired length, taper the end with sandpaper or file, and unscrew the nut from the bolt.

Unscrewing the nut over the freshly cut end of the bolt straightens out any damage to the threads. Gripping the bolt by the piece to be sawed off localizes any crushing damage to the piece you're throwing away.

More BenchTips by Brad Smith are at  
[groups.yahoo.com/group/BenchTips/](http://groups.yahoo.com/group/BenchTips/)  
 or

[facebook.com/BenchTips](https://www.facebook.com/BenchTips)

====

**NOW HEAR THIS !!!**

If a Rockhound Friend from California can take the time to send us Hints and Tips for the Journal each month, surely a few of you could make the effort to write something about your favorite phase of the hobby. Is it **Collecting**? Is it **Cutting & Polishing**? Have you tried **Casting** or **Faceting**? Oh, you would like to but you don't know what's involved. Maybe if someone wrote an article on the subject you would have a better idea if you want to try it or not.

Let's get busy, people. This is **YOUR** Journal. Don't let Shelley & Holger be the only regular contributors - apart from the Directors who have to send in their reports.

**February** is Valentine's Day - how about writing something about crafting a heart pendant for that 'special someone.'

**March** is St. Patrick's. There are plenty of Green Gems - pick one - Jade, Malachite, Aventurine, Emerald, Tourmaline - your choice.

Trudy the Terrible Typist



**CALGARY ROCK  
&  
LAPIDARY CLUB**

[www.crlc.ca](http://www.crlc.ca)

**GEM, MINERAL  
&  
FOSSIL SHOW**

**Agates of The World**

|                 |                       |                     |
|-----------------|-----------------------|---------------------|
| <b>SATURDAY</b> | <b>M A Y 5 / 2012</b> | <b>9 AM - 6 PM</b>  |
| <b>SUNDAY</b>   | <b>M A Y 6 / 2012</b> | <b>10 AM - 5 PM</b> |

FISH POND, SILENT AUCTION, DISPLAYS, DEMONSTRATIONS  
DEALERS, HOURLY DOOR PRIZES

Free Parking at the Arena & at Queen Elizabeth School  
Food Concession at the Arena

**ADMISSION**

Adults \$5.00 \* Students - ID CARD \$3.00 \* Seniors \$3.00  
Children 6 and under admitted FREE  
if accompanied by an adult

**WEST HILLHURST ARENA**

1940 - 6 AVE. NW CALGARY, ALBERTA

|              |              |              |
|--------------|--------------|--------------|
| Chairman     | Publicity    | Displays     |
| Bob          | Trudy        | Pearl        |
| 403-254-2716 | 403-287-1570 | 403-282-2331 |

=====

**BC GEM SHOW**

**APRIL, 13, 14, 15, 2012**

**Club & Special Displays  
Demonstrations, Dealers**

Children's Creative Workshop, Grab Bags, Spin & Win

**Adults - \$6.00 Students 6-17 \$2.00**  
**Under 6 (accompanied by an adult) Free**

**AG-REC BLDG. CFV FAIRGROUNDS**  
**32470 Haida Drive, ABBOTSFORD, BC**

For more information, check out their web site  
<http://www.lapidary.bc.ca/gemshow.html>

**Anybody going to Quartzsite ?**

**POW WOW # 46**

Starts Wed. Jan. 18 thru Sun. Jan. 22, 2012  
Check out the Web Site

## ARE YOU STILL WITH ME ?

Sometimes the best stuff gets left to the end.

### Canceled Stamps & Soup Labels

**PLEASE** - use a little care and attention when cutting the stamps from the envelope and the taking the label off the Campbell Soup Can. Use scissors or a knife - don't just rip them off. When you do that, I end up spending extra time trimming off the ragged edges.

Leave a quarter inch around the stamp. The BAR CODE is the important part of the soup label. The labels now go to Lakeview United Church who, in turn, use them to obtain school supplies for needy students.

### Gems & Minerals of Canada

Do you have some young people on your Christmas list ? The Gems & Minerals of Canada Activity Book makes a great stocking stuffer. It has minerals & crystals to color, games and activities. Cost is only \$ 2.50 or, as Trudy likes to say, **On Sale, Special - 2 for \$5.00 !**

Trudy has them at the side table where the Exchange Newsletters are set out.

### BC Rockhounder

Is anyone interested in getting their own subscription to the BC ROCKHOUNDER ? Subscription rate is \$24.00 for 4 issues per year mailed direct to your home. (\$14. plus \$10. postage).

I am hoping, if we get 5 to 10 subscribers and have the magazine mailed to one address, then we might be able to get a reduced rate as is done for members of the BC clubs. In order to negotiate this, I would need a firm commitment that you want a subscription.

### BC Society 2012 Calendars **NEW PRICE \$10 ea.**

Calendar pages have been down graded for web loading purposes. Print quality and clarity of images/color will be superior in printed format. Great Pictures, dealer advertisements, show dates. The new addition includes USA holidays.

To place an order for the 2012 Calendar, email Katrinia **Walter** with quantity required, cheques / money orders made payable to the BC Lapidary Society.

A sample of the calendar can be seen on the BC Society web page <http://www.lapidary.bc.ca/>

%% %%

## THE ROCK SHOW - EARTH SCIENCE

### Specimens & Materials

Lapidary, Mineral & Fossil

**SUNDAYS: 7 am - 2 pm**

**Hillhurst - Sunnyside Market  
( west hall )**

**1320 - 5 Avenue NW, Calgary AB**

**Peter Meyer 403 - 289 - 4135**

## SHOP & SWAP

Is there a piece of equipment you are looking for ? Put an Ad in The Journal.

Do you have some equipment you want to sell? Put an ad in The Journal.

Reasonable rates - Province wide coverage -  
Better than average success rate.

Contact - The Editor

Trudy Martin 403-287-1570

<martintm@shaw.ca>

## WEB SITES OF INTEREST

Agates with Inclusions

<http://www.agateswithinclusions.com/>

Canmore Museum & Geoscience Center

<http://cmags.org/>

Gemcutters

<http://www.gemcutters.org/>

Rock Food Table

<http://www.rockfoodtable.com/>

International Gem Society Reference Library

<http://www.gemsociety.org/info/info.htm>

# KOMAREVICH ORIGINALS



## Boxing Week Sale

DECEMBER 27, 2011 - DECEMBER 31, 2011

BEADS - GEODES - FOSSILS  
MINERALS - CRYSTALS  
GEMSTONES  
TOOLS  
FINDINGS

OUR BIGGEST SALE OF THE YEAR!

KOMAREVICH ORIGINALS LTD.  
1510 - 7<sup>TH</sup> STREET SW  
CALGARY, AB  
T2R 1A7  
PHONE: 403-244-3244