



Voice of the Dinosaur

Newsletter of the Kawartha Rock and Fossil Club

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**LAST MEETING May 10, 2011**

The meeting began with the regular business meeting and committee reports given as applicable.

1. Treasurer's Report - Reports were accepted as given.
2. Show Report - Attached to minutes of meeting.
3. Field Trips - 11 trips have been planned. There is no specific field trip leader, but various members have stepped forward to lead specific trips. Certain trips still have no leaders and will not take place if a leader is not found.

Tom Jenkins has been given a large collection of minerals and rock slabs from Arizona which will be auctioned at succeeding meetings. He showed a couple of boxes of the material as representative samples.

Feature Presentation Our speaker for the evening was Graham Wilson of Turnstone Minerals. His topic was chromium and chromium minerals. Always an interesting speaker, Graham illustrated his presentation with slides, samples and a very long map consisting of several pages of the Geological Map of the Great Dyke of Southern Rhodesia.

After the presentation, members showed and discussed their own mineral and fossil samples.

A silent auction was held during the coffee break.

NEXT MEETING - June 14, 2011

Place - Orientation Centre, Peterborough Zoo

Time - 7:00 pm.

Program - Mineral Barite and Fossil Bivalves Night

Agenda - Regular business meeting followed by a presentation.

Feature Presentation - By Bob Beckett - Collecting Techniques/Tools & Specimen Care in the field.

Different types of collecting, i.e. in quarries, trenches, road cuts, etc. How to care for specimens on the trip home.

This will be a good session for our new members, those who don't get out collecting often and experienced field collectors.

Silent Auction - will consist of some of the Arizona material as shown at the last meeting.

Cut slabs

Cutting material.

Tumbling rock (agate).

Specimens with small crystals of quartz, calcite, etc (some are reverse-sceptre quartz).

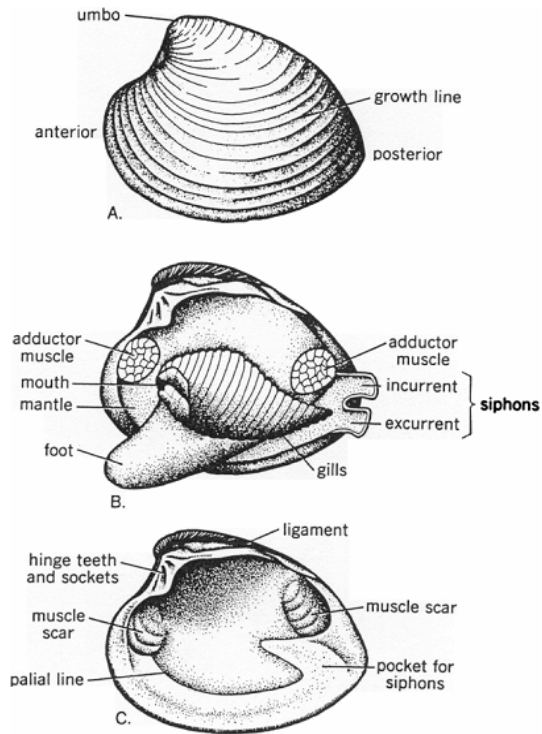
Also items listed in the "For Sale" section in this Newsletter will be available.

The meeting will finish with a discussion about the Barite mineral and Bivalve fossil specimens our members have brought in.

THE FOSSIL CORNER

BIVALVES

By Kevin Kidd



Bivalvia (the bivalves) is a class of marine and freshwater mollusks such as mussels, clams and oysters. They are also known as pelecypods. While technically, pelecypod refers to the animal itself, and bivalve simply describes the shell, the common name bivalve is most often used. There are over 9200 known species, both living and extinct and they can trace their ancestry all the way back to the Cambrian period.

Some bivalves are *epifaunal*, attaching themselves to hard surfaces. Some are *infaunal*, burying themselves in sediment; these forms often have a strong digging “foot”. Some bivalves, such as scallops, can swim. Scallops also have complex eyes, with retinas and lenses, while other types have simpler eyes, if any at all. They all have light sensitive cells that can detect a shadow passing over the animal. Many also possess tentacles, both for touch and to taste the water.

Bivalves have a shell consisting of 2 asymmetrically rounded halves, called valves, which are mirror images of each other. They are joined at one edge by a flexible ligament called the hinge. The shell is generally bilaterally symmetrical, with the plane of symmetry being the hinge line. This is in contrast to brachiopods, which also have 2 valves, but have a plane of symmetry parallel to the length and passing through the center of both valves (Fig. 1). Also, bivalve shells are the left and right sides of the animal, while in brachiopods, they are the top and bottom. The valves are made from calcite (as with oysters) or both calcite and aragonite. The outermost layer is an organic chitinous substance called the *periostraca* that forms the familiar decoration of the shells.

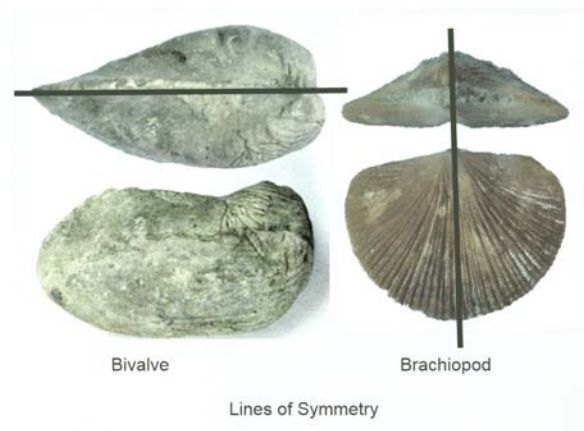


Figure 1

During the Ordovician, the time period where local, central Ontario fossils were deposited, there existed a condition called a calcite sea, as opposed to an aragonite sea similar to what we have currently (Fig. 2). This calcite sea occurs when low magnesium calcite is the primary inorganic marine calcium carbonate precipitate. Fossils of invertebrate organisms found in calcite sea deposits are usually dominated by animals that were either equipped with thick calcite shells and skeletons (brachiopods and crinoids), were infaunal and/or had thick periostracas or had an inner shell of aragonite and an outer shell of calcite. This last condition was apparently because aragonite, also a form of calcium carbonate, is quite metastable (science for dummies – finicky) and dissolved quickly on the sea floor. It had to be either avoided, or protected in order to remain. As a result of the aragonite being lost/replaced, virtually all the Ordovician bivalves in Ontario are found as either limestone casts or molds, with no shell material remaining. By the Devonian, shell material is often present. This could be due to slightly more favorable conditions, or different shell composition. Many of these Devonian bivalves, particularly in Southwestern Ontario, are found *pyritized*. There, that ought to keep you mineral guys and gals happy as well 😊

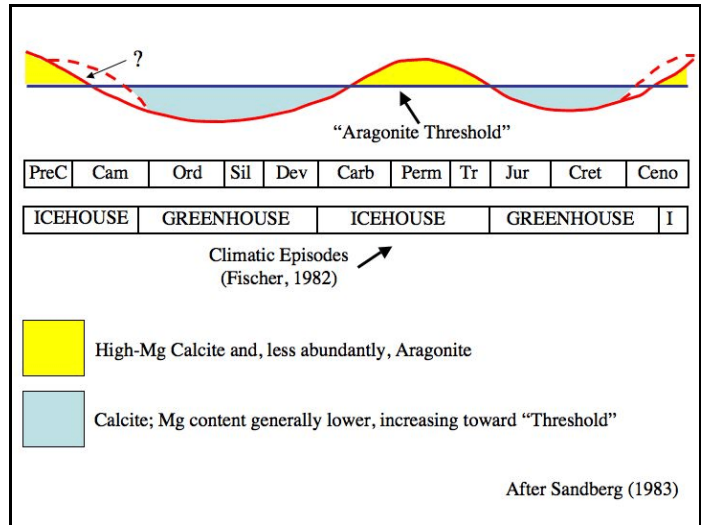


Figure 2

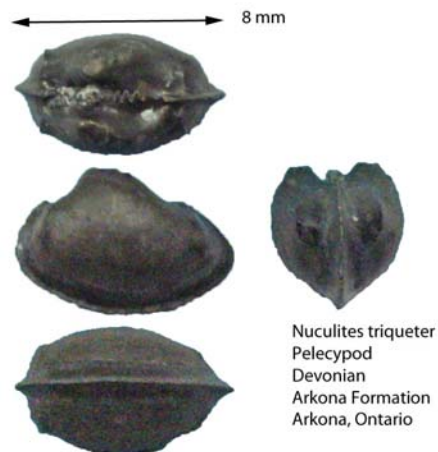


Photo credits- Bivalve Anatomy- Alleghenygeoquest.com

1. Calcite/aragonite sea info- Wikipedia.com 2. All others – personal collection

THE KRFC WEB SITE

By now I would hope all members are aware of our web site at www.rockandfossil.com If not, then I urge you to have a look. If you do not have access to the Internet, cultivate a friend that does.

Bob Moore is doing an excellent job of building an interesting and informative web site. Two of our members, Kevin Kidd and Peter Lee have their own pages. There's a scapolite page, Show page, field trip pages, all with photographs. This web site is the Club's face to the world.

Thanks to everyone who is sending Bob photos, but he needs some members with excellent mineral sample pictures who are willing post them. Otherwise people who visit the site might think we're a fossil club.

Contact Bob at email: bobmoore11@hotmail.com or phone 905-372-8050.

THE MINERAL CORNER A HOME GROWN METHOD FOR CLEANING QUARTZ

By Mark Stanley

Recently while on the Internet, I came across the following method of removing rust stains on Quartz.

Oxalic acid is used to remove iron oxide or rust stains from Quartz crystals. The Rhubarb plant that is found in many gardens contains Oxalic acid in the leaves. This method avoids the use of concentrated acids and is claimed to be effective.

Take several large Rhubarb leaves and wrap them tightly around the piece of Quartz that you want to clean. Use string or elastic bands to hold the leaves in place. Place the rhubarb covered specimen in a small pan and cover with water. It is important that the pan or pot be as small as possible and use just enough water to cover the specimen. The more water used will dilute the solution and slow the cleaning process. Warm the solution on a hot plate and keep warm for several hours. Then remove the Quartz from the solution and leaves and rinse thoroughly.

Warning: It is always best to do all types of mineral cleaning outside. Always take all safety precautions - safety glasses, protective gloves, etc. Keep everyone and pets away from the solution. Always try an unimportant specimen first to see how it works, before attempting a good sample.

TRIP REPORT MARMORATON MINE FIELD TRIP

By Mark Stanley

At 8:45 am, on Sunday, May 15, approximately 12 members of the Kawartha Club met at the entrance gate for the Marmoraton Mine at Marmora. After everyone had signed the necessary release forms, trip leader Bob Beckett explained the rules of conduct while visiting the mine, and checked that everyone had the required safety gear. We entered the mine at 9:00 am.

Unfortunately little work has been done by the mining company since last year. While there was not any recently exposed new material available, the mine dumps are huge, so there is always something to be found. With drizzle and a few light showers, the rocks were kept wet, which really brings out their colours.

I was able to find some Pyrite crystals, up to 2 cm, in Calcite, although none were recovered without extensive damage. I found a couple of large masses of Calcite that had rolled down from the piles over the winter. Breaking them open revealed small cavities that contained colourless crystals up to 2 cm. The most interesting find for myself was 1 cm green-black crystals of Epidote on massive garnet. The piece that I brought home was found in the rubble from someone else breaking down a large boulder.

While I was only able to stay for a few hours. It was a very worthwhile trip.

"Thank you" to Bob Beckett, the day's field trip leader, who organized the trip.

FOR SALE

For Sale by KRFC. These items will available at the June 14 meeting.

1. One used small tumbler: Jewel Stone no. 16514 with a lot (25 lbs) of grits, polish, rouge & plastic pellets.
Runs great. \$ 50.00
2. One used medium tumbler: Presto-Gem Polisher with about 1/2 lb each 80/320/600 grit & 3/4 lb alumina polish, also manual.
Runs great. \$ 40.00
3. Sanding discs: qty 2 Covington 10" discs -fine & course & 1 extra paper disc.
Like new condition. \$ 25.00 for all.
4. Grinding wheel: qty 1 Covington 10"
In very good condition. \$ 10.00

IN MEMORY

Members were saddened to learn of the death of William John Hessin, who died peacefully on April 26, 2011. He was the father of Bill Hessin, a former member of our Club and author of *South-Central Ontario Fossils*.

Long time members of the Club will remember the wonderful Club picnics held yearly that William and Bea Hessin hosted on their property in the country.

THE EDITOR'S CORNER

Many thanks to Bob Beckett, Tom Jenkins, Kevin Kidd, and Mark Stanley for their contributions to this issue. Also thanks to Peter Lee who regularly sends his wonderful photos which are posted on his page. He has also sent an interesting article on Ontario fossils (9 pages) which covers much of the area in which the Club members collect. The article was published in *Fossilien*, a German scientific publication, and includes two photos of his fossils on page 145. Unfortunately, I cannot read German, but for those of you who do, there is a copy of the article in the Club Library. The photos are fantastic and it's worth your time to have a look even if you cannot read the text. Have a look on Peter's Page to see a picture of the *Calyptaloux* trilobite he found on the field trip to the Speed Skating Park under construction in Lakefield

Bob Beckett has been very helpful in co-ordinating field trips and in making sure there are trip leaders. However, he has other responsibilities and a Field Trip Leader must be found. Any one who is interested would be assisted in getting to know the job. Offer to lead a field trip. It's a good way to get a "feel" for the job. Field trips are an integral and necessary part of the Club.

Bob is also looking for someone to "apprentice" with him in order to eventually take over the Show Co-Ordinator position. This experience would look excellent on a resumé since it involves various kinds of planning, and dealing with many different kinds of people.

If you are a paid up member and wish to sell equipment, etc. relating to fossils or minerals, you may advertise in the "Voice". Contact me, Bev Fox at: kfox71@cogeco.ca or call 705-742-6440.

Any member may borrow from the Club Library. If you have not received an up to date list of holdings and wish to have one, contact me.

This is the last Issue of the "Voice" until the September issue, which will be published in mid August. Details of field trips pending and need to know information will be sent out, but there will be no "official" newsletter.

Have fun, but be safety minded collecting this summer. We want everyone back safe and sound in the Fall.

Bev Fox

👉 FIELD TRIPS 👈

By Bob Beckett

The Club is still in need of a qualified Field Trip Leader and as such we are struggling to get collecting trips planned and executed. Those trips without a Field Trip leader assigned are subject to cancellation if a leader is not found. Some of the Marmoraton Quarry trips may not be lead by me but we have folks to fill in as trip leader for those trips.

The following Collecting Trips have been planned for the Club this year so please mark them on your calendar. Some of these have already been announced and are included here again for completeness. More details will follow prior to the trip dates.

<u>Date</u>	<u>Locality</u>	<u>Trip Leader</u>
Sunday June 12 th	Princess Sodalite Mine, Bancroft (Children Welcome!) Fee Site \$10	R. Beckett
Saturday June 25 th	Coe Hill Gold, Coe Hill (Children Welcome!) Fee Site \$5	R. Beckett
Sunday June 26 th	Marmoraton Quarry, Marmora (Persons under 16yrs of age not permitted)	R. Beckett
Saturday July 9 th	Beryl Pit, (& Possibly Rose Pit) Quadeville (Children Welcome!) Fee Site \$6	R. Beckett
Sat & Sun July 23 rd /24 th	Hungry Hollow Area, near Arkona (Saturday & Sunday, Children Welcome!)	Kevin Kidd
Saturday Sept 10 th	Craigmont Corundum Mine, Craigmont	No Leader at Present!
Sunday Sept 18 th	Marmoraton Quarry, Marmora (Persons under 16yrs of age not permitted)	R. Beckett
Sat or Sun Oct 1 st or 2 nd (This trip is still being finalized, permission to enter the property is being requested)	Lacey Mine, near Kingston	G. Thompson
Sunday Oct 9 th	Marmoraton Quarry, Marmora (Persons under 16yrs of age not permitted)	R. Beckett

Other trips still in the planning stage are to the Smart/Meany Mine area at Eganville, Children Welcome, Fee Site \$10, (probably linked with another site for a weekend trip) and the Pinchin Quarry, near Malone. Other one day adventures are being planned as well so keep a eye open for details in the Club Newsletter as they become available. If you're interested in planning and leading any of these trips please let me know.

Bob Beckett, Past President, KRFC

Email: rbeckett@cogeco.ca or by phone: 705-748-0178

Details For Princess Sodalite Mine Trip, Bancroft - June 12th 2011

Meet at 10:00 am at the Princess Sodalite Mine Shop entrance

Children are welcome on this trip. Safety boots or sturdy durable work boots, safety glasses etc are strongly recommended at this site.

Minerals possible to find: Sodalite, Cancrinite, Magnetite, Feldspar, Nepheline, Norstrandite (micro) etc. from the old dump area. Plus a host of other minerals from the rock farm Rose Quartz, Garnets, Amazonite, Pyrite and a host of other specimens.

There is a \$10 per person fee for this site. The fee includes 1 bucket (supplied by owner of the Mine) of any material collected in the old mine dumps. Other material will be at \$1.50/lb for material from the old dumps or the rock pile.

If you are interested in going on this trip please let Bob Beckett know by Email:

rbeckett@cogeco.ca or phone (705) 748 0178 no later than noon on the Friday prior to the trip. Number of attendees on the trips is limited so let him know as soon as possible.

Details For Marmoraton Quarry Trips, Marmorata - June 26, Sept. 18 and Oct. 9, 2011

Meet at the quarry gate at 9:00AM for the Safety Talk and Sign In. We enter the Quarry at 9:15AM

Late comers will not be permitted to enter.

NOTE: In accordance with the AECON rules of access, you must at all times while on the site wear certified Safety Boots, Safety Glasses, Hard Hat and a Safety Vest.

Photo identification, such as a drivers license, and a valid Club membership card may be required to be shown to the AECON representative when you "Sign In" and sign the Liability Release Waiver.

Persons under the age of 16 years ARE NOT permitted on the site

We are to be off the site by 4:00pm

To be eligible to attend this trip YOU MUST contact Bob Beckett by email: rbeckett@cogeco.ca or by phone: 705-748-0178 and advise him that you are wanting to attend. If you have not spoken with him directly or sent an email before noon on the Friday prior to the trip you may not be able to attend this trip.

COMING EVENTS

JUNE 18, 2011 Niagara Peninsula Annual Gem & Mineral Show and Sale in conjunction with Berries & Blossoms-Lincoln Family Festival

Saturday 10 am-5 pm

New Location: Beamsville High School, 4317 Central Ave., Beamsville

Features: Rocks, minerals, fossils and gems; kid's exhibits; lapidary demonstration

Mega door prize; gem & mineral identification and inspection

Admission: Donation at the door. Free Parking

Directions: QEW to Beamsville Ontario St. Exit; travel south. One block after John St. turn left on May St., high school is straight ahead.

Contacts: Bill Plavac 905-354-2409; Jim Glen Email: jrglen@sympatico.ca

JUNE 25, 2011 Gneiss Guy Minerals and Fossils Warehouse Grand Opening!

Sat 10-5; Sun 10-5

Selling Wholesale and open to the public

Come check out our many specials on our opening day.

BBQ each day from 12:00 - 1:30

820 Gartshore St. Unit #19, Fergus, On N1M 2W8 (Located only 1 hour from Toronto)

Contact: Ken Dardano 519-831-3093 or gneissguy@bell.net

JULY 15-17, 2011 29th Annual Sudbury Gem and Mineral Show

"Northern Ontario's Largest Gem, Mineral, Fossil, Bead and Rock Craft Show and Sale"

Fri. 5 pm-9pm, Sat. 10 am-6pm, Sun. 10 am-5pm.

Location :Carmichael Arena, 1298 Bancroft Drive across from Minnow Lake; 1 km. south of the Kingsway (Hwy. 17 East)

Admission: Adults \$4, Seniors \$2, Kids 6-12 \$1, Kids under 5 free with adult

Features: Dealers; displays; demonstrations; door prizes (including amethyst geode grand door prize); silent auctions; kid's activities; mineral identification; video theatre; field trip Sun.

at noon; BBQ; free handouts and literature; outside dealers/swap area Sat. 11 am-4 pm;

prospectors and metal detecting displays; free parking

Contact: Ed Debicki (705) 522-5140, E-mail: ed.debicki@sympatico.ca

Website: <http://www.ccfms.ca/clubs/Sudbury/show.htm>

JULY 24, 2011 Bancroft Gem & Mineral Club 15th Annual Gem & Mineral Show

Sunday 10 am-4pm.

Bancroft Legion Hall, Station St., Bancroft, ON

Features: 25 dealers plus silent and live auctions

Admission: \$2/adult, children & students (18 yrs & under) free.

Contact: Frank Melanson at 613-332-1032

JULY 28-31, 2011 48th annual Bancroft Rockhound Gemboree, Bancroft, Ont

Info E-mail: joanne@commerce.bancroft.on.ca

AUG. 20, 2011 Rockhound Family Day at Robert Hall Originals. A fun family event!

Saturday 10 am-4pm

138 Sugar Maple Road, St. George, Ontario

Admission: Free

Kids Fossil Dig

Rock Buddy Craft For kids – Free

Mineral Identification. Bring A Specimen!

Explore Outdoor Rock Piles!

Giant Silent Auction - Bring your items to include in the auction! Bidding begins at 11:00 & 1:00 (10%commission)

Free Rock Swap – Bring a table and set up you treasures. Contact us to reserve your free rock swap space.

Contact: inquiry@roberthalloriginals.com Or call (519) 448-1236 or 1-800-360-2813

Website: <http://www.roberthalloriginals.com>

SEP. 17-18, 2011 Wonders of the Earth" - The 42nd Scarborough Gem & Mineral Club Show

Sat. 10-6, Sun. 11-5.

Don Montgomery Community Centre, 2467 Eglinton Avenue East, Scarborough

Admission: adults \$5, children \$1

Contact: Gem & Mineral Club of Scarborough scarbgemclub@lycos.com

Website: www.scarbgemclub.ca

SEP. 30 - OCT. 2, 2011 Ancaster Gem, Mineral, Bead & Jewellery Show

Friday: 9:30 a.m. to 6:00 p.m.

Saturday: 10:00 a.m. to 6:00 p.m.

Sunday: 10:00 a.m. to 5:00 p.m.

Try on the latest in fashionable jewellery. See crystals, fossils & magnificent rocks from all over the world! Shop at over 30 dealers.

Take a free seminar on rocks, fossils or crystals.

OCT. 15-16, 2011 42nd Annual Gem Storm. Show and sale sponsored by the Kingston Lapidary and Mineral Club

Sat. 10-6, Sun. 10-5.

Portsmouth Olympic Harbour, 53 Yonge St., Kingston, ON.

Features: Over 30 dealers; Children's mine, Jewellery Workshop

Information: Contact Les Moss, Show Chairman at emoss@cogeco.net

Website: <http://www.mineralclub.ca>

OCT. 28-29, 2011 The University of Waterloo Gem and Mineral Show

Friday, 12 Noon to 6 PM; Saturday, 10 AM to 5 PM.

CEIT Building, UW campus

This year the show is being held on Friday and Saturday instead of the usual Saturday and Sunday.

Minerals, gemstones, rocks, fossils, jewellery; Saturday science event for kids.

NOV. 2-9, 2011 Robert Hall Originals Annual Fall Open House - 8 Days of Christmas!

Wednesday November 2 to Wednesday November 9. All days 10 am-5pm

138 Sugar Maple Road, St. George, Ontario

Admission: Free

Features: Visit Robert Hall Originals for our Annual Fall Open House. Rocks, minerals, gems, beads, lapidary demonstrations & more!

Contact: robert@roberthalloriginals.com or (519) 448-1236 or 1-800-360-2813

Website: <http://www.roberthalloriginals.com>