





# THE TELEPHONE CITY CRYSTAL



BRANTFORD LAPIDARY & MINERAL SOCIETY



 <b>MEETING</b> REMINDER	<p><b>DATE:</b> Friday, October 19, 2018</p> <p><b>TIME:</b> 7:30 pm</p> <p><b>LOCATION:</b> TB COSTAIN/S.C. JOHNSON COMMUNITY CENTER, 16 MORRELL ST. BRANTFORD, ON</p> <p><b>PROGRAM SPEAKER:</b> DR. KIMBERLEY T. TAIT</p> <p><b>TOPIC:</b> <u>The next 100 years: Minerals and Gems at the Royal Ontario Museum</u></p> <p>The Royal Ontario Museum (ROM) recently celebrated a milestone birthday and with that, came a great opportunity to plan for the future. Dr. Tait will be covering some of the new acquisitions, displays, construction that is currently happening at the ROM and talk about future plans for the section.</p> <p>DR. KIMBERLY T. TAIT is the Senior Curator of Mineralogy at the Royal Ontario Museum (ROM) and Associate Professor at the University of Toronto. At the ROM, Dr. Tait leads a group of students, postdocs and researchers in mineralogical research and oversees the meteorite, mineral, gem and rock collections at the museum. She is interested in how planets formed and evolved throughout time, and focuses on mineralogy and geochemical techniques to describe these processes. She is interested in characterization of new minerals and detailed descriptions of groups of minerals to understand planetary formation processes using diffraction and spectroscopy methods. She was the recipient of the Mineralogical Association of Canada Young Mineralogist Award. She earned her Ph.D. in Geosciences from the University of Arizona, United States. She has served as a councillor on the Mineralogical Association of Canada and the Mineralogical Society of America.</p>	<b>INSIDE THIS ISSUE</b>																
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	<p><b><u>SILENT AUCTION - MICROSCOPE</u></b></p> <p>A Silent Auction will be held during our October 19, 2018 Monthly Meeting for a GemOro Elite model 1030 precision microscope.</p> <p>It has a magnification of 10x or 30x. The eyepieces have a magnification of 10x and the objective 1x and 3x. The microscope is mostly made of metal. An iris diaphragm can be used to adjust the amount of light from the bottom light.</p>
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## PRESIDENTS MESSAGE

Greetings Members,

Instead of a Presidents Message, we are including some photos of The BL&MS September 2018 Monthly Meeting. We are also including photos of members who represented The BL&MS at the 2018 Ancaster Gem & Mineral Show. Thank you to all of The BL&MS members who assisted at the 2018 Ancaster Gem & Mineral Show. ☺ Regards, Constance S. Hanscomb - President





# BLMS INFO



Joan Campbell will be accepting 2019 Membership Renewals and New Memberships at the October 19, 2018 BL&MS Meeting. These Membership cards will be Valid until December 31, 2019.

**Please pay by CASH or CHEQUE.**

**NOTICE:** 2019 BL&MS MEMBERSHIP FEES HAVE GONE UP: SINGLE \$20.00 FAMILY \$25.00

## Photos from September 21, 2018 BL&MS Monthly Meeting. (Photos courtesy of Roger Campbell)

Alan Dickin and Constance Hanscomb



Presentation to Past Board Members



We had a good turnout in September.



Don Oliver set up a lovely display.



Time to renew your BL&MS Membership



Thank you to all the volunteers who assisted at the Ancaster Gem, Mineral, Bead & Jewellery Show on the last weekend of September.

Their help working at the BL&MS booths and demonstration areas is much appreciated.

## Photos showing BL&MS members assisting at the 2018 Ancaster Gem & Mineral Show. (Photos by Roger Campbell)





**The BL&MS WORKSHOP IS OPENING SOON:**

**As of the distribution of this newsletter a date has not been set for the opening. Please check The BL&MS website for GRAND OPENING INFORMATION.**

**Our NEW WORKSHOP will be OPEN soon. The address for our Workshop is: 125 Stanley St. Unit # 5, Brantford. (Unit # 5 is at the back of the building.)**

Workshop Chairperson: Ernie Edmonds 519-583-9457

Workshop Instructor: Rita Apanavicius [apanavr@gmail.com](mailto:apanavr@gmail.com) or 289-682-7612

We are in the process of setting up our new Workshop. Please go to our website or to our Facebook site for updated information as to the proposed date that our Workshop will be re-opening. (Possibly around Thanksgiving). The BL&MS Website: [www.brantfordlapidarymineral.ca](http://www.brantfordlapidarymineral.ca) Facebook Website: <https://www.facebook.com/groups/916113761832155/>



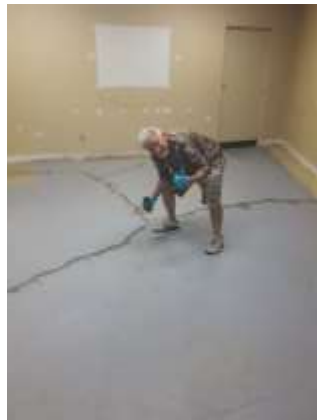
Thank you to all the volunteers who assisted in emptying the Moving Box, painting and also assisting with setting up our new workshop at 125 Stanley Street Unit 5

**A special thank** you to Ernie Edmonds and Allan Hietapakka for their dedication in coordinating, overseeing and organizing the Workshop repairs, moving the Workshop from our old address to our new address and setting up all the equipment, etc. Both Ernie and Allan put a lot of long hours into the planning and setting up of everything necessary for the NEW Workshop.

We are planning to have the Workshop open more days per week with more Workshop Instructors as well. We will post the Workshop days and times on our website, on our Facebook site and in our Newsletter. Since we will be paying higher rent in our new location we have had to raise the cost of our Workshops. (Photos courtesy of Allan Hietapakka)



Sept 21 - Ernie repairing walls



Sept 21 - Allan repairing floor



Sept 29 – Building Cabinets



Oct 3 – Looking good

**NEW – WORKSHOP PUNCH CARDS – PURCHASE IN ADVANCE AT THE BL&MS MEETINGS**

There will be four levels of Workshop Punch Cards which will be available for members to purchase at any of our BL&MS Meetings. **We will be selling Workshop Punch Cards at our October 19, 2018 meeting. Please pay by cash or cheque.**

**PLEASE NOTE:** There will not be any cash transactions at our Workshop Location.

**The Four Levels of Workshop Punch Cards are as such:**

1. 1 session for \$12.00
2. 5 sessions for \$55.00 (Eleven dollars per workshop session)
3. 10 sessions for \$100.00 (Save money - Ten dollars per workshop session)
4. 20 sessions for \$180.00 (Best Savings - Nine dollars per workshop session)

**NOTE:** Each session is for ONE workshop usage per person. The Workshop Punch Card **MUST** be punched by the Workshop Chairperson or Workshop Instructor for EACH PERSON on EACH DAY of their workshop usage **BEFORE** they work on the machines.

**HELP US SAVE THE ENVIRONMENT**

Request your copy of the BL&MS Newsletter to be emailed to you in PDF format instead of mailed to you. Please send an email to Jeannine Johnson at [jjohnson3733@cogeco.ca](mailto:jjohnson3733@cogeco.ca). (If you have requested a PDF copy and have not received it, please check your Junk Box.) Please Note: A PDF copy of the Newsletter is posted monthly on The BL&MS Website as well. [www.brantfordlapidarymineral.ca](http://www.brantfordlapidarymineral.ca)

**FACEBOOK:** Rita Apanavicius has added Facebook to our website and link on our newsletter.  
<https://www.facebook.com/groups/916113761832155/>

**Future BL&MS Monthly Meeting Dates for 2018:**

November 16, 2018 at 7:30 pm

December 14, 2018 at 6:30 pm – POT LUCK – Note the earlier date and time for the December Meeting.

**Information regarding Rene Perrin's Show and Tell Talk at the June 2018 Pot Luck Meeting.**

Rene Perrin spoke about the "Unusual Stone Age Cave Wall Painting Minerals and Mixtures found in France". Rene said he was not prepared for the many questions regarding the minerals and he felt that he was unable to answer all the questions properly. Rene will be submitting an article in the November 2018 BL&MS Newsletter that he hopes will clarify things and answer any questions. I am looking forward to this article as I was on holiday and was unable to attend the June Pot Luck.

**ANNOUNCING**

**2019 Brantford Lapidary & Mineral Society Gem and Mineral Show will be held April 6 to 7, 2019 at the Paris Fairgrounds. More information will follow in future BL&MS Newsletters.**

**2018 GEM, MINERAL AND FOSSIL SHOWS OCTOBER & NOVEMBER**

**October 12-14 2018 Greater Detroit Gem, Mineral & Fossil Show.** Fri 9 to 6; Sat 10 to 7; Sun 11 to 5  
 Macomb Community College, South Campus, Expo Centre, 14500 E. 12 Mile Road, Warren, MI  
 Adults \$8; Seniors \$5; Children \$4

**October 26-27 2018 University of Waterloo Gem & Mineral Show**  
 Fri. 12 noon to 6 pm; Sat. 10 am to 5 pm CEIT Building, University of Waterloo Campus. Free admission.  
 For more info visit: <https://uwaterloo.ca/earth-sciences-museum/gem-and-mineral-show>

**October 27-28 2018 Rochester (NY) Gem, Mineral, Jewelry and Fossil Show & Sale.**  
 Sat. 10 am to 6 pm; Sun. 10 am to 5 pm Total Sports Experience, 435 W. Commercial Street, E., Rochester, New York, USA. Just off interstate 490. For more info visit <http://www.rochesterlapidary.org/show>

**Saturday, November 3, 2018 Walker Mineralogical Club Annual Auction**  
 Knox United Church, 2569 Midland Avenue, north of Sheppard Ave., Scarborough, ON. Viewing begins at 12 noon and Auction at 1:00 pm. For more info, visit <http://www.walkermineralogicalclub.org/annual-auction>

**November 16 – 18 2018: London Gem & Mineral Show** Fri. 3 pm to 9 pm; Sat. 10 am to 6 pm; Sun. 10 am to 5 pm.  
 Agriplex, Western Fair District, 845 Florence Street, London, ON. Admission \$6 adult, \$3 child.  
 For more info visit: <http://www.gemandmineral.ca>

**58<sup>th</sup> Annual Gem & Mineral Show – Fri to Sun – November 23 to 25, 2018 - MONTREAL**  
 Fri 12 Noon to 9 pm; Sat 10 am to 7 pm; Sun 10 am to 5 pm 100 Merchants Location: 800 De La Gauchetiere West, Metro Bonaventure, Square Victoria, Montreal, Quebec: Entrance: \$8.00 Adults; \$7.00 Seniors; \$6.00 students; 12 Years and under free with adult  
 Website: <https://www.montrealgemmineralclub.ca/pages/AnnualShow-Set.html>

**CCFMS:** Please check their website for Show updates, Field Trips and maps.

<http://www.ccfms.ca> For more information refer to the Events Tab and the Field Trips Tab.

**CCFMS Recurring Field Trips:**

- **Beamsville Quarry** Nelson Aggregates Quarry, Beamsville Ontario - Saturday - 2nd weekend in May, 4th weekend in September



- **Bowmanville Quarry** St. Marys Cement Inc. (Canada), Bowmanville - Fall & Spring  
**Sunday, Oct 21, 2018 - Fossil collecting at St Marys Cement in Bowmanville**

We will meet in the parking lot before 8:30am and sign in with the trip leader (Kevin Kidd) then as a group, we will get a safety orientation from the quarry manager. After that, we drive into the quarry and collect until 3-3:30. Same routine as always for those who have been here before. You must be a member of a CCFMS club to attend. No late arrivals will be admitted. This is a working quarry, so no collectors under 16 years old. Full safety gear required- Safety boots, hard hats and vests. Gloves and goggles are recommended. Directions to St Marys are on the CCFMS website. Pre-registering would be nice, but is not necessary. Any other questions, please contact Kevin Kidd at [kevjenn1998@yahoo.ca](mailto:kevjenn1998@yahoo.ca)

**FIELDTRIPS:** Go to the Niagara Peninsula Club website for a listing of scheduled fieldtrips & activities:

<http://www.ccfms.ca/clubs/NPGS/>

Niagara Peninsula Club field trips email: [npgstrips@gmail.com](mailto:npgstrips@gmail.com)

**Sat & Sun, October 20th & 21st, 2018 Kingston area**

**Canadian Wollastonite - Saturday morning**

**Frontenac Lead Mine - Saturday afternoon**

*Canadian Wollastonite & Frontenac Lead Mine - Grenville Province minerals*

**Lansdowne Quarry - Sunday morning & afternoon**

*Cambro-Ordovician Potsdam Sandstone & fossil trackways, Grenville Province unconformity*

**kid-friendly**

Please contact Ashley Pollock if interested. Choice of camping or hoteling/motelling for either field trip.

**Open to the Public sites - any day you'd like to choose**

*Grenville Province minerals*

**Location: Beryl Pit & Rose Quartz Mine, Quadeville**

**kid-friendly** - both sites are pay-to-collect sites & Rose Quartz is "by appointment only".

Please contact Dave & Renée Patterson, site owners.

**Location: Rutter nepheline-syenite Pluton, 2 sites, French River**

**kid-friendly** - one is a pay-to-collect site & both are by permission only. Please contact Ashley

Pollock if interested.

**Location: Schickler Fluorite Mine, Wilberforce**

**kid-friendly** - free-to-collect pass can be obtained at 2 places: @ Municipal Offices, 2249 Loop Rd or @ Agnew's General Store, 2284 Loop Rd, both in Wilberforce.

*Mid-Devonian Hamilton Group - Onondaga Escarpment fossils*

**Location: Penn-Dixie Paleontological and Outdoor Education Center, Blasdell (Buffalo), New York**

**kid-friendly**



Rock, Gem, Mineral, Fossil and Meteorite Identification Clinics at the ROM

More Information, contact ROM: 416-586-5549 or ROM website: <https://www.rom.on.ca/en/visit-us>

Visitors with rocks, minerals, gems, fossils or suspected meteorites can have them identified at the special ID clinics by ROM experts held 6 times a year. Now in its 26<sup>th</sup> year, these clinics are free to the public but patrons wishing to visit the rest of the museum will be charged admission. No appointment necessary, first come, first served. Sorry we can't ID stone artifacts and NO appraisals will be done. **Hours:** Wednesday, 4:00 pm to 5:30 pm **Location:** President's Choice Entrance on Queen's Park, doors nearest Museum subway shop.

<b>Dates for 2018</b>	February 21, 2018	April 18, 2018	June 20, 2018
	August 15, 2018	October 17, 2018	December 12, 2018



## **MINERAL OF THE MONTH: ORTHOCERAS**

Permission to include this article in our BL&MS Newsletter has been given by: Nitin of Jewelexi



<https://www.jewelexi.com/gemstones/orthoceras>



A long conical shape Orthoceras 'cephalopod' is the fossilized remains of an extinct marine animal. Orthoceras are the remains of extinct marine animals, therefore, known as the fossil stone and is around 400 million years old. The ancestor to the squid, over 500 to 190 million years ago, they are marked with a date to the lower Ordovician to Triassic ages. Orthoceras fossils ("straight horn") are common and have a global distribution, a genus of extinct nautiloid cephalopod they occur in any marine rock; in particular they occur in limestone. These conspicuous ortho core cephalopods 'Orthoceras' are persistent enough to form dense limestone key beds. These limestone key beds are known as cephalopod beds, Orthoceras limestones or nautiloid limestones in the geological history.

These are slender, elongate shells range in length from a few inches to over six feet. Their middle body chamber is transversely constricted, which help them to swim and crawl on the ocean floor. Orthoceras could float by filling the chambers of their shells with air; they receive the thrust by squirting jets of seas water. When the die their shells accumulates on the ocean floor which then covered by sediments and subsequently over the ages transformed into stone.

Straight horn 'Orthoceras' are believed to be an excellent healing stone and are exquisite to carry on your body as jewelry. They are luck for the wearer and prosperous to have in his environment.

Beautiful ortho core nautiloids are yielded in the southern coast of Sweden, The Baltic island of Öland. For centuries, these straight horn 'Orthoceras' are used in jewelry and in various other articles, as these hard limestone fossil inclusions are durable for stairs, grave stones, and floors. Sporadically, the cavities of the fossil shells are colored in a different way which makes it very desirable. Colors are determined when the ground water minerals seep into the strata during diagenesis. Orthoceras crystals are of black and gray fossil, Brown and Green are most common colors. They fed upon small animals.

### **Where is Orthoceras found?**

An extinct squid-like creature Orthoceras belongs to the class Cephalopoda are widespread and have a global distribution, they occur in limestone a marine rock basically but also found in different marine rocks too. The fossil shells of orthoses are found and polished in the Atlas Mountains and the Sahara Desert of Morocco. They also occur in The Alps, Scandinavia and Iowa in USA.

### **Orthoceras Fossils Facts**

- An ancient mollusc is known as Orthoceras that lived more than 400 million years ago.
- Orthoceras along with related orthodontic nautiloid cephalopods are often perplexed with the apparently the same Baculites and related Cretaceous orthodontic ammonoids.
- In the beginning, Orthoceras allude to all straight-shell nautiloids, called an "ortho core". But later on, research on their internal structures, cameral deposits, the siphuncle, and many others, showed that these in point of fact belong to a number of groups, even of different orders.
- Nautiloidea the subclass of ortho ceras narrows the field. Chambered Nautilus is the only living member and the extinct members of this subclass are the ammonites.
- Fossils are believed to increase the life span of the wearing individual and make him confident.
- Orthoceratidae is the family name given though some sources that first used to call the family name Michelinoceratidae but later disagreed with the time period. Later the name is given according to the geographic location in which they are found or comes from.

### **Orthoceras Color**

Colors are determined when the ground water minerals seep into the strata during diagenesis. Orthoceras crystals are of black and gray fossil, Brown and Green are most common colors. It is a smoky quartz with Fresh Water Pearl color.



<b>Orthoceras at a Glance</b>	
Cleavage	Perfect {100}, imperfect {000}
Other Names	Orthoceratites. Orthocera, Orthocerus or Orthoceros
Crystal Habit	NA
Streak	Dark gray, Weathers yellow
Refractive Index	1.69–1.70
Diaphaneity	translucent to slightly opaque
Moh's scale (hardness)	3.5 - 4.0
Sources	South East Morocco and have a global distribution
Chemical formula	NA
Lustre	Vitreous, pearly on cleavage surfaces
Color	crystals are of black & gray fossil, Brown, Green Fresh Water Pearl & Smoky Quartz

### **Information regarding “Mineral Collecting Guidebook” for the Bancroft Area including Index Contents Emailed to Constance from Ruth and Thomas Vick**

Date: Tuesday, September 4, 2018, 7:26:21 PM EDT

Hello Constance,

We are just back from an extended weekend of rock hounding in Bancroft area and we obtained some info which may be of interest to fellow members planning to go to Bancroft as well.

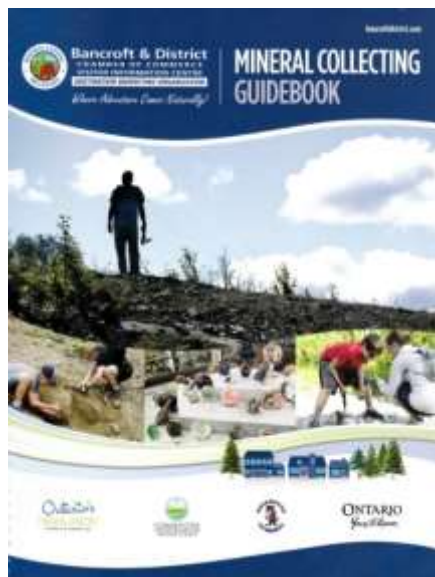
The best reference is the MINERAL COLLECTING GUIDEBOOK (\$20.00) issued by the Bancroft Chamber of Commerce located on Hasting St. opposite the Scotia Bank. It is listing about 20 collecting localities – Directions, Geology, Minerals, maps and comments for each site.

A few tips

- Wilberforce area: maps & permissions for the sites can be obtained at the curling club at the junction 648/Essenville Rd. (not at the municipal office) in Wilberforce
- The best to do the miner's loop at Marmora is on the way to or from Bancroft. The Deloro mine is closed due to contamination and sites 1 & 2 are insignificant. Only the Mighty Marmoraton Mine is of interest: however, except for looking through chain link fencing at the open pit there is nothing else.

With best regards

Ruth & Thomas Vick





**2018 BOARD OF DIRECTORS**

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**LIGHTER SIDE – Something for the Cat and Dog Lovers – Hope you enjoy it!!!**

