



THE TELEPHONE CITY CRYSTAL



BRANTFORD LAPIDARY & MINERAL SOCIETY



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VOLUME 88 Issue 1

	<p>DATE: Friday, November 16, 2018</p> <p>TIME: 7:30 pm</p> <p>LOCATION: TB COSTAIN/S.C. JOHNSON COMMUNITY CENTER, 16 MORRELL ST. BRANTFORD, ON</p> <p>PROGRAM SPEAKER: John Young</p> <p>TOPIC: <u>Geology aspects of large engineering projects</u></p>	INSIDE THIS ISSUE											
	<p>John is an engineering geologist with a specialization in the geological/geotechnical aspects of large hydroelectric projects, including dams and underground facilities. During the past 40 years John has worked on over 40 hydroelectric projects in approximately 25 countries. John wants to give an overview of some interesting technical items and illustrate the life of a geologist doing studies in a variety of international settings.</p> <p>John will present a number of case histories showing some basic aspects of projects he has done in Africa, Iran, Pakistan, Indonesia and a few other countries.</p>	<table border="1"> <tr><td>MEETING INFO, PRESIDENTS MESSAGE THE BL&MS CLUB INFO</td><td style="text-align: center;">1</td></tr> <tr><td>2019 PARIS BL&MS GEM & MINERAL SHOW Future BL&MS Mthly Mtgs</td><td style="text-align: center;">2</td></tr> <tr><td>WORKSHOP INFORMATION CABOCHON CONTEST</td><td style="text-align: center;">2, 3</td></tr> <tr><td>2018 SHOWS, EVENTS CCFMS and FIELD TRIPS ROM Identification Clinics</td><td style="text-align: center;">3, 4</td></tr> <tr><td>MINERAL OF THE MONTH – MANGANITE</td><td style="text-align: center;">5</td></tr> <tr><td>2018 BOARD OF DIRECTORS and Lighter Side</td><td style="text-align: center;">8</td></tr> </table>	MEETING INFO, PRESIDENTS MESSAGE THE BL&MS CLUB INFO	1	2019 PARIS BL&MS GEM & MINERAL SHOW Future BL&MS Mthly Mtgs	2	WORKSHOP INFORMATION CABOCHON CONTEST	2, 3	2018 SHOWS, EVENTS CCFMS and FIELD TRIPS ROM Identification Clinics	3, 4	MINERAL OF THE MONTH – MANGANITE	5	2018 BOARD OF DIRECTORS and Lighter Side
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PRESIDENTS MESSAGE

Greetings Members,

We were successful in receiving the Brantford Emergency Fund Grant in the amount of \$15,000 from the city. This will cover the expenses we have incurred from storage of the equipment, renovating the new facility and cover a few months rent. I would like to thank Ernie Edmonds for all his work in helping us secure this grant.

☺ Regards, Constance S. Hanscomb - President



BLMS INFO



<p style="text-align: center;">Renew Your Membership</p>	<p>Joan Campbell will be accepting 2019 Membership Renewals and New Memberships at the November 16, 2018 BL&MS Monthly Meeting. These Membership cards will be Valid until December 31, 2019.</p> <p>Please pay by CASH or CHEQUE.</p> <p>NOTICE: 2019 BL&MS MEMBERSHIP FEES HAVE GONE UP: SINGLE \$20.00 FAMILY \$25.00</p>
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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. (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

ANNOUNCING

2019 Brantford Lapidary & Mineral Society's 47th Annual Gem and Mineral Show will be held Sat Apr 6 and Sun Apr 7, 2019 from 10 am to 5 pm at the Paris Fairgrounds, 139 Silver Street, Paris, ON. The Theme of this show will be: "Birthstones of the World". Adults \$6.00; Children 12 & under Free. More information about the 2019 Paris Gem & Mineral Show will be in future Newsletters. You can also contact Robert Parry, Show Chair 519-448-1236 or robert@roberthalloriginals.com

Future BL&MS Monthly Meeting Dates for 2018:

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



and MEMBERS SALE



GREAT NEWS

The BL&MS WORKSHOP IS OPENING THURSDAY, NOVEMBER 1, 2018:

Our NEW WORKSHOP will be OPEN Thursday, November 1, 2018 from 10:00 am to 3:00 pm. The address for our Workshop is: 125 Stanley St. Unit # 5, Brantford. (Unit # 5 is at the back of the building.) From Highway 403 take Exit 38 Wayne Gretzky Parkway. (If coming from the East turn Left onto Wayne Gretzky Parkway. If coming from the West turn Right onto Wayne Gretzky Parkway.) Turn right onto Henry Street. Travel approx. 160 metres. Turn left onto Stanley Street. Travel approx. 850 metres. Destination will be on the left. (Please park at the back of the building or on Grey Street)

Workshop Chairperson: Ernie Edmonds 519-583-9457
Workshop Instructors: Rita Apanavicius apanavr@gmail.com or 289-682-7612
Allan Hietapakka Allan.hietapakka@hotmail.com or 519-732-9825

The Workshop hours will be: Sunday from 12 noon to 6:00 pm; Tuesday from 7:00 pm to 10:00 pm; Wednesday from 12 noon to 6:00 pm; Thursday from 7:00 pm to 10:00 pm. Ernie Edmonds and Allan Hietapakka will be the Workshop Instructors on Sunday and Wednesday. Rita Apanavicius will be the Workshop Instructor on Tuesday and Thursday. The Workshop hours will be increased once we are in full swing with more trained instructors. The days & times will also be posted on our website & Facebook sites. The BL&MS Website: www.brantfordlapidarymineral.ca Facebook Website: <https://www.facebook.com/brantfordclub>

GRAND OPENING

THE GRAND OPENING OF THE BL&MS WORKSHOP IS NOVEMBER 17, 2018

The official Grand Opening Open House of The BL&MS Workshop will be on Saturday, November 17, 2018 from 10:00 am until 3:00 pm at our NEW Workshop. The Ribbon Cutting Ceremony will be at 10:30 am. (Please park at the back of the building or on Grey Street)

If you have not had a chance to see our NEW workshop please come out to see what the Workshop is all about. We have a Meeting, Training, Classroom and Library that is separate from the Lapidary machines and saws. We have a room for the saws so that the noise will be reduced when the saws are in full use. We have areas where members can either stand or sit at our Lapidary machines. Our Workshop is fully wheelchair accessible and so is our large bathroom. Our machines have been cleaned and refurbished. We have a nice clean kitchen area. We have a double sink separate from the kitchen area for cleaning hands, stones, filling water bottles for Lapidary equipment etc. There will be rocks and slabs, which will be displayed on shelves, and will be available for members to purchase at a reasonable cost from our Workshop Instructors. New members will have one FREE session to work on the Lapidary equipment. New members will be able to choose one FREE rock or slab to use during their first session at the Workshop.



Thank you once again to everyone who helped in getting our Workshop ready for the Grand Opening. Special thanks to Ernie Edmonds, Allan Hietapakka and Robert Kergan, General Contractor, who made this dream a reality. Come out and show your support.

**VOLUNTEERS
NEEDED**

If anyone is able to volunteer at the Grand Opening Open House please contact Constance Hanscomb or Carolyn Hayes.

NEW – WORKSHOP PUNCH CARDS

PURCHASE IN ADVANCE AT THE BL&MS MEETINGS OR PURCHASE AT THE WORKSHOP



There will be four levels of Workshop Punch Cards which will be available for members to purchase at our BL&MS Monthly Meetings and starting November 1, 2018 at our Workshop. Workshop Punch Card Sales will also take place at our Grand Opening Ceremony on November 17. Please pay by cash or cheque. Please bring exact change.

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.

**NEW TO THE BL&MS:
CABOCHON CONTEST**

CABOCHON CONTEST

The **First Cabochon Contest** for The BL&MS will launch on Thursday, November 1, 2018 to coincide with the opening of our Workshop. **Each contestant will receive one small box for each \$5.00 Entry Fee.** A contestant can enter more than one Cabochon as long as they pay the \$5.00 per box Entry Fee (one box is one entry). **Each Cabochon entry MUST fit into the small box (one cabochon per each box per each entry).** **NOTE:** ALL work that is done on each Cabochon entry **MUST** be completed at The BL&MS Workshop. Each Cabochon entry **MUST** be given to the Workshop Instructor when the contestant is leaving a Workshop session. **Each Entry MUST BE kept at the Workshop.** There will be CASH prizes for 1st, 2nd and 3rd place winners. The cash prizes are a progressive pay based on number of entries. Rules and Regulations for the Cabochon Contest will be posted at the Workshop as well as on The BL&MS Website and Facebook Site. **Remember your Punch Card or pick up one at The BL&MS Workshop or at The BL&MS Monthly Meetings. Please bring exact change.**

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



2018 GEM, MINERAL AND FOSSIL SHOWS NOVEMBER, DECEMBER & JANUARY 2019

<p><u>Saturday, November 3, 2018 Walker Mineralogical Club Annual Auction</u> 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</p>
<p><u>Saturday, November 10, 2018</u> The CMMA (Canadian Micro Mineral Association) hosts its annual Fall workshop at the Art Gallery of Burlington, 1333 Lakeshore Rd, Burlington, ON from 9 am – 4 pm. Fee is \$16 including parking, payable when you arrive. Pre-registration is required – please email Frank Ruelicke at ruehlicke@rogers.com if you wish to attend.</p>
<p><u>Thursday, November 15 to Monday, November 26, 2018 - Annual 12 Days of Christmas at Robert Hall Originals</u> Monday to Friday: 9 am to 5 pm; Saturday 10:00 am to 4:30 pm; Closed Sundays, 138 Sugar Maple Road, St. George, ON For more information, please contact 519-448-1236 or visit www.roberthalloriginals.com</p>
<p><u>Fri. Nov. 16 to Sun. Nov. 18, 2018: London Gem & Mineral Show</u> Fri. 3 pm-9 pm; Sat. 10 am-6 pm; Sun. 10 am-5 pm. Agriplex, Western Fair District, 845 Florence St., London, ON. Admission \$6 adult, \$3 child. http://www.gemandmineral.ca</p>
<p><u>58th Annual Gem & Mineral Show – Fri to Sun – November 23 to 25, 2018 - MONTREAL</u> 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</p>



Saturday and Sunday, December 8 & 9, 2018 GNEISS GUYS WAREHOUSE SALE From 10:am to 5:00 pm
820 Gartshore St. Unit # 19, Fergus, ON For more information go to their website www.gneissguy.ca or email gneissguy@bell.net or phone 519-400-6133

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.



It looks like the CCFMS Field Trips are winding down for the winter months.

CCFMS Recurring Field Trips are posted on the CCFMS website.

- [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

FIELDTRIPS: Go to the *Niagara Peninsula Club* website for a listing of scheduled fieldtrips & activities:
www.ccfms.ca/clubs/NPGS Niagara Peninsula Club field trips email: npgstrips@gmail.com

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 & 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 26th 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 & NO appraisals will be done. **Hours:** Wednesday 4:00 pm - 5:30 pm

Location: President's Choice Entrance on Queen's Park, doors nearest Museum subway shop.

Dates for 2018	August 15, 2018	October 17, 2018	December 12, 2018
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**MINERAL OF THE MONTH: MANGANITE – Two Articles from Rene Perrin** – Thank you, Rene

LATEST NEWS ABOUT MANGANITE: Rene Perrin emailed me on October 22, 2018 stating that: *There has been an announcement that the Quebec Manganite site was depleted and due to flooding and then drainage, the site was now blocked from "Rockhounds" permanently. The last statement was that Manganite had become a very valuable investment.*

NOTE: If anyone has Manganite that they wish to display at our November 16, 2018 BL&MS Monthly Meeting could you please contact me at: jjohnson3733@coqeco.ca or phone me at 905-543-9220. Thank you. Jeannine Johnson

Unusual Black and Colored Minerals Discovered in Paleolithic Cave Art in France, (Paleolithic = early stone age.)

Over the past 12 years very detailed studies of minerals that were used to create cave art have been done in France. The purpose of the work was to analyse archeological minerals in order to assess the “know-how” of prehistoric people regarding the composition of the minerals, their preparation & the geological origin of the raw materials. The cave painting materials consisted of raw minerals, but were also composed of some apparently mixed, ground & heat-treated minerals. Very advanced techniques were used to analyse the composition of the pigments and minerals, with a heavy focus on the black ones.

In general, red pigments were from Hematite ($\alpha\text{-Fe}_2\text{O}_3$), yellow from Goethite ($\alpha\text{-FeOOH}$) and black from charcoal, or Manganese Oxides/Hydroxides.

From various other studies, painting materials could be obtained by mixing minerals, or mixing with extenders like clay, Calcite, Quartz, Potassium, Feldspar etc. or binders like water, animal fat, or vegetable oil. Grinding and heat treatment were also used. For example, heating of Goethite causes dehydration which resulted in red pigments.

Mineral cave painting/art pigment samples were taken from four cave Sources namely 1) Ekain Basque Country (Spain), 2) Gargas in the high Pyrenees Mountain range (France), 3) Labasite in the high Pyrenees (France) and 4) Combe Saunière (France). In the latter cave area where no paintings were found there was other unusual content. In this cave there was strong evidence of frequent visits as a possible hunting stop, and of what looked like a mineral preparation site. There were pigments and blocks of various minerals from black, to dark and red present. **An odd block of black Manganite ($\gamma\text{-MnOOH}$) was found but there was no location in France where such a block had been found.**

A summary of the dark and most unusual mineral findings is as follows:**Manganite: ($\gamma\text{-MnOOH}$) Source 4, (Black)**

- The small faceted pure block of Manganite was not used as a “crayon/pen” for cave art but it was ground on a rock to create pigment particles. The location was far from any block sources.
- Manganite is rare and forms in low to medium-high temperature hydrothermal veins.
 - Some pigments were found in the high Pyrenees mountains in Gargas and in cave art as a mixture.
 - The closest source of collector’s minerals is in the Ilfeld Harz mountain area in Thuringia Germany.
 - See MINERALS.NET FOR EXCELLENT EXAMPLES. There are many other sites worldwide.

Groutite: $\text{Mn}^{3+}\text{O}(\text{OH})$, Source 1 (Black)

- This is a relatively scarce mineral especially in the Spanish Basque region. There are good sites worldwide.

Birnessite: $(\text{Na,Ca})_{0.5}(\text{Mn}^{4+},\text{Mn}^{3+})_2\text{O}_4 \cdot 1.5\text{H}_2\text{O}$, Source 3, (Dark Brown to Black) & Variations

- Birnessite had never previously been found in cave art. It is believed that it formed on the cave wall due to micro-organism oxidation of the Mn^{2+} ions in the clay.

Todorokite: $(\text{Na,Ca,K,Ba,Sr})_{1-x}(\text{Mn,Mg,Al})_6\text{O}_{12} \cdot 3\text{-}4\text{H}_2\text{O}$, Source 4, Purplish gray, Brown to Black

- This raw block was classed as a relatively pure mineral containing some Romanechite and small amounts of other minerals as shown in the formula (variations exist). This was in the same cave as the Manganite block.
 - Todorokite is often found in pigments in small quantities, often mixed with other Manganese oxides.
 - It is present in manganese sea nodules and water molecules are seen in the formula above.
 - As [birnessite](#), it may be a product of mineralization of fungal (e.g., *Penicillium spp.*, *Mucor spp.*, *Rhizopus spp.*) hyphae; as such is found in cave deposits and waters (vide Burford et al., 2003).

**SUMMARY:**

Manganese oxides were present in most of the rare minerals. The publications covered many more minerals.


Manganite comes from very different sources than Todorokite and other rare minerals, so stone-age painters must have mixed them together (called "anthropic" or done by man and not nature).

It was concluded that the sources where the rare minerals were found in France and Spain were either exhausted or collected over unsuspected much longer trading routes.

Rene Perrin also sent me this article from: <https://www.minerals.net/mineral/manganite.aspx>

**THE MINERAL MANGANITE**

Manganite is a mineral named for its dominating manganese content. It forms in manganese deposits, where it is more common than perceived as an uninteresting mineral. However, several localities produce very aesthetic, well-crystallized forms of Manganite that are highly lustrous. These exceptional examples, especially those from Ilfeld in Germany, are rarities that are highly prized by collectors, with high-end collectors vying for the top specimens of this mineral.

Chemical Formula	MnO(OH)
Composition	Basic manganese hydroxide
Color	Dark gray to black
Streak	Reddish brown to black
Hardness	3.5 - 4
Crystal System	Monoclinic
3D Crystal Atlas <small>(Click for animated model)</small>	
Crystal Forms and Aggregates	Manganite is best known in aggregates of blocky and short prismatic crystals. Crystal aggregates are usually in disorganized clusters with the crystals coming out of all directions. Thick crystals are heavily striated lengthwise, and often exhibit curvature. Twinning , in both penetration twinning and contact twinning , is known. Additional habits include acicular , radiating , fibrous , plumose , mammillary , globular , grainy , and massive .
Transparency	Opaque
Specific Gravity	4.3 - 4.4
Luster	Submetallic
Cleavage	1,1
Fracture	Uneven
Tenacity	Brittle
In Group	Oxides; Hydroxides
Striking Features	Crystal habit, mode of occurrence, and streak
Environment	In low temperature hydrothermal replacement deposits, acid-rich bogs, and in manganese-rich hot springs.
Rock Type	Sedimentary, Metamorphic
Popularity (1-4)	2
Prevalence (1-3)	2
Demand (1-3)	2

**POLYMORPHS**

Feitknechtite
Groutite

USES

Manganite has been used as an [ore](#) of manganese in the past. The classic, well-crystallized forms of Manganite from Germany make an important collector's mineral that is highly prized by collectors.

NOTEWORTHY LOCALITIES

The premier locality for Manganite is Ilfeld, in the Harz Mountains, Thuringia, Germany, where it was found in exceptionally lustrous blocky crystals. The best of this seems to have come from the late 1800's, with no new recent discoveries of interest.

Large and often curved crystals are found in the Kalahari manganese field, in Northern Cape Province, South Africa - at the Wessels Mine in Hotazel; and at the N'Chwaning Mines in Kuruman. [Radiating](#) and [fibrous](#) Manganite, resembling [Pyrolusite](#), has come from the Bölet Manganese Mines, Udenäs, Karlsborg, Sweden.

Lustrous blocky Manganite crystals in [vugs](#), as well as sharp [acicular](#) crystals, have been mined in Canada at the Caland Mine, Atikokan, in the Rainy River District, Ontario. Also in Canada is Walton and Cheverie, Hants Co., Nova Scotia, which has produced [fibrous](#) crystal groupings. The historic Michigan iron-mining districts of Negaunee, in the Marquette iron range, Marquette Co.; and Ironwood, in the Gogebic iron range, Gogebic Co. have also produced Manganite specimens of interest.

COMMON MINERAL ASSOCIATIONS

[Barite](#), [Quartz](#), [Pyrolusite](#), [Calcite](#), [Limonite](#), [Siderite](#), [Goethite](#)

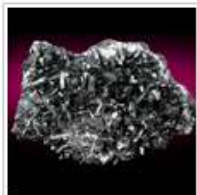
DISTINGUISHING SIMILAR MINERALS

Pyrolusite - Rarely forms in large crystals like Manganite; otherwise can be distinguished by [streak](#).

Enargite - Luster is more metallic, and has a different streak.

Goethite - Greater hardness, more brown in color color, and has a different streak.

Hematite - Different crystal habits, greater hardness, more [metallic luster](#).

MANGANITE PHOTOS



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LIGHTER SIDE

