




THE TELEPHONE CITY CRYSTAL



BRANTFORD LAPIDARY & MINERAL SOCIETY



Sept. 2018
VOLUME 86 Issue 1

 <p>Hope you had a Great Summer Rockhounding.</p> <p>Monthly Meeting</p> <p>DATE: Friday, Sept. 21, 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: ALAN DICKIN</p> <p>Alan Dickin received his bachelor's degree in Mineralogy and Petrology from Cambridge and his PhD Phil in Isotope Geochemistry from Oxford. His research program over the past 30 years at McMaster has been devoted to using neodymium isotope analysis to understand the crustal structure of the Canadian Shield in the one billion year old Grenville Orogenic Belt. His talk will describe a new geological model for the origins of the exotic rocks in the Bancroft region of the Grenville Province.</p>	INSIDE THIS ISSUE	
	<p>MEETING INFO and PRESIDENTS MESSAGE</p> <p>BLMS CLUB INFO and WORKSHOP INFO</p> <p>2018 SHOWS, EVENTS</p> <p>CCFMS and FIELD TRIPS</p> <p>More FIELD TRIPS and ROM Identification Clinics</p> <p>MINERAL OF THE MONTH – LAPIS LAZULI</p> <p>CHARLIE SOUTHWORTH TRIBUTE in ARKONA</p> <p>2018 BOARD OF DIRECTORS</p>	<p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p>

PRESIDENTS MESSAGE

Greetings Members,

I hope you all had a great summer. Mine was fairly quiet, but I did meet some people that were just starting their rock/mineral fascination and it was great to get in on the excitement.

Since the last newsletter we have added to the Board of Directors, Allan Hietapakka as Secretary and Rita Apanavicius as a Workshop Instructor – Welcome to you both.

The Directors have acquired a new location for our workshop, 125 Stanley St, Unit 5 (it is in the back of the plaza), in which we get the key September 1st. We are extremely excited about getting it up and running and hope that will be by mid to late September. We may be looking for volunteers to get it set up.

We will be putting in Workshop Rules and Policies, and a new structure for usage fees. We want the workshop to be safe and fun for everyone, and more self-sustaining. The Directors have come up with lots of ideas to do that,





some of which will have already put in place. We will be looking for more people to train to be Workshop Instructors, so it can run more hours, if this interests you, please consider volunteering.

I look forward to a great year rocking ☺.

Constance S. Hanscomb - President

BLMS INFO



Joan Campbell will be accepting 2019 Membership Renewals and New Memberships at the September 21, 2018 BLMS Meeting. These Membership cards will be Valid until December 31, 2019.

Please pay by CASH or CHEQUE.

NOTICE: 2019 BLMS MEMBERSHIP FEES HAVE GONE UP: SINGLE \$20.00 FAMILY \$25.00



The Board of Directors would like to welcome the following new Board Members:

Allan Hietapakka is the Secretary

Rita Apanavicius is a Workshop Instructor

VOLUNTEERS REQUIRED To Promote The BLMS at Ancaster Gem, Mineral, Bead & Jewellery Show



We need Volunteers to promote the BLMS at our booth as well as demonstrate on a Lapidary machine at the **Ancaster Gem, Mineral, Bead and Jewellery Show** which will be held Friday to Sunday, Sept. 28, 29 and 30. Members, if you can do a two-hour stretch or more, please sign the show volunteer sheets at the September 21, 2018 meeting or contact Robert or Betty Parry at (519) 448-1236. Thank you to all of our Volunteers.

BLMS HAS A NEW LOCATION FOR OUR WORKSHOP:



Our workshop at 19 Helen Avenue has **permanently** closed.

Our NEW WORKSHOP ADDRESS will be: 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 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 by the end of September 2018). BLMS Website: www.brantfordlapidarymineral.ca Facebook Website: <https://www.facebook.com/groups/916113761832155/>

VOLUNTEERS WILL BE NEEDED TO ASSIST IN SETTING UP OUR NEW WORKSHOP IN SEPTEMBER



We will need Volunteers to assist in the setting up of our new Workshop in our new location. Ernie Edmonds will be coordinating the setting up of our new Workshop. Once Ernie has access to the new location, he will assess what is required to be completed before we can move our equipment into it. Please contact Ernie as soon as possible regarding Volunteering for the Workshop setup. Thank you to all of the Volunteers who helped packing up the equipment and who will be helping with the setting up at our new location.



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 once we have the Workshop set up. Since we will be paying higher rent in our new location we have had to raise the cost of our Workshops.



NEW – WORKSHOP PUNCH CARDS – PURCHASE IN ADVANCE AT BLMS MEETINGS

There will be four levels of Workshop Punch Cards which will be available for members to purchase at any of our BLMS Meetings. **We will be selling Workshop Punch Cards at our September 21, 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.

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



Correction to June 2018 Newsletter:

Regarding: Workshop Update Option #3 of abandoning the workshop all together was not voted on.

The sentence should have been: Workshop Update: No one voted on Option #3 of abandoning the workshop all together.

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

52nd Annual OLMC Annual Gem and Mineral September 15th and 16th, 2018

Nepean Sportsplex, in Ottawa. Sat. 10 am - 6 pm, Sun. 10 am - 5 pm. Door Prizes.

Over 60 dealers and exhibitors with gemstones, minerals, fossils, jewellery, crystals, beads, equipment, carvings and more. The OLMC will host colourful displays, demonstrations and hands-on activities, and mineral and gem identification.

General Admission: \$8.00 12yrs & under, Free <http://olmc.ca/gemshows.html>

The Nepean Sportsplex is located at 1701 Woodroffe Avenue north of the Ottawa Greenbelt, near the former Confederation High School along OC Transpo route 95.

"Wonders of the Earth" - The 49th Scarborough Gem & Mineral Club Show

Dates: September 22 -23, 2018 **Hours:** Saturday: 10 am to 6 pm, Sunday: 10 am to 5 pm

Location: Don Montgomery Community Centre, 2467 Eglinton Avenue East, Scarborough, Ontario

Admission: Adults \$5, Children \$1 For more information, please contact: The Gem & Mineral Club of Scarborough: website: <http://www.scarbgemclub.ca/>

**10th Annual Ancaster Gem, Mineral, Bead & Jewellery Show Fri. to Sun., Sept. 28 - 30, 2018****Ancaster Fairgrounds, 630 Trinity Road, Ancaster, ON**

Friday: 9:30 am - 5:00 pm; Saturday & Sunday: 10:00 am - 5:00 pm.

Admission: \$8.00 (2 Day Pass - \$14.00) Children 12 & under FREE

Jewellery, Rocks, Minerals, Fossils, Lapidary Equip. & Supplies, Jewellery Making Classes, Wellness Crystals, Free Demonstrations, Free Seminars, Free Kid's Activities

For more information, refer to website: www.ancastergemshow.com or email: inquiry@ancastergemshow.com**Presented by: Robert Hall Originals at 519-448-1236, 1-800-360-2813**

October 26-27 2018: University of Waterloo Gem and Mineral Show. Friday 12 Noon - 6 PM; Saturday 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, Total Sports Experience, 435 W. Commercial Street, E. Rochester, NY 14445, USA, just off interstate 490. Saturday 10 AM to 6 PM; Sunday 10 AM to 5 PM. For more info visit <http://www.rochesterlapidary.org/show>.

Walker Mineralogical Club Annual Auction, Saturday, November 3, 2018Knox 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 and Mineral Show, Friday 3 PM — 9 PM; Saturday 10 AM to 6 PM; Sunday 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>.

58th Annual Gem & Mineral Show – Fri to Sun – November 23 to 25, 2018 - MONTREAL

Friday - 12 Noon to 9 pm. Saturday - 10 am to 7 pm Sunday - 10 am to 5 pm 100 Merchants

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.**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

FIELDTRIPS: Go to the Niagara Peninsula Club website for a listing of scheduled fieldtrips:<http://www.ccfms.ca/clubs/NPGS/>**Sunday, September 23rd, 2018 Kingston area****Lansdowne Quarry - Sunday morning & afternoon***Cambro-Ordovician Potsdam Sandstone & fossil trackways, Grenville Province unconformity*



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 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 and NO appraisals will be done.

February 21, 2018	Location & Hours
April 18, 2018	Wednesday, 4:00 pm to 5:30 pm President's Choice Entrance on Queen's Park, doors nearest Museum subway stop
June 20, 2018	
August 15, 2018	
October 17, 2018	
December 12, 2018	

**MINERAL OF THE MONTH LAPIS LAZULI****Lapis Lazuli**

From Wikipedia, the free encyclopedia. For other uses, see Lapis (disambiguation)

		
Lapis lazuli from Afghanistan in its natural state	Natural ultramarine pigment made from ground lapis lazuli.	19th Century lapis lazuli and diamond pendant

GENERAL INFORMATION	
Category	Metamorphic rock
Formula (repeating unit)	mixture of minerals with lazurite as the main constituent
Crystal system	None, as lapis is a rock. Lazurite, the main constituent, frequently occurs as dodecahedra
IDENTIFICATION	
Color	Blue, mottled with white calcite and brassy pyrite
Crystal habit	Compact, massive
Fracture	Uneven-Conchoidal
Mohs scale hardness	5 – 5.5
Luster	Vitreous to Greasy
Streak	Light blue
Specific gravity	2.7-2.9
Refractive index	1.5
Other characteristics	The variations in composition cause a wide variation in the above values.
Transparency	Opaque
Double Refraction	None
Cleavage	3, 6

Lapis lazuli, or **lapis** for short, is a deep blue metamorphic rock used as a semi-precious stone that has been prized since antiquity for its intense color. As early as the 7th millennium BC, lapis lazuli was mined in the Sar-i Sang mines,^[1] in Shortugai, and in other mines in Badakhshan province in northeast Afghanistan.^[2] Lapis was highly valued by the Indus Valley Civilisation (3300–1900 BC). Lapis beads have been found at Neolithic burials in Mehrgarh, the Caucasus, and even as far from Afghanistan as Mauritania.^[3] It was used in the funeral mask of Tutankhamun (1341–1323 BC).^[4]

At the end of the Middle Ages, lapis lazuli began to be exported to Europe, where it was ground into powder and made into ultramarine, the finest and most expensive of all blue pigments. It was used by some of the most important artists of the Renaissance and Baroque, including Masaccio, Perugino, Titian and Vermeer, and was often reserved for the clothing of the central figures of their paintings, especially the Virgin Mary or Angels.

Composition

The most important mineral component of lapis lazuli is lazurite^[9] (25% to 40%), a feldspathoid silicate mineral with the formula $(\text{Na,Ca})_8(\text{AlSiO}_4)_6(\text{S}_3\text{SO}_4\text{Cl})_{1-2}$.^[10] Most lapis lazuli also contains calcite (white), sodalite (blue), and pyrite (metallic yellow). Some samples of lapis lazuli contain augite; diopside; enstatite; mica; hauynite; hornblende, nosean, and sulfur-rich löllingite *geyerite*.

Lapis lazuli usually occurs in crystalline marble as a result of contact metamorphism.

Color

The intense blue color is due to the presence of the trisulfur (S_3) radical anion in the crystal.^[11] An electronic excitation of one electron from the highest doubly filled molecular orbital (No. 24) into the lowest singly occupied orbital (No. 25)^[12] results in a very intense absorption line at $\lambda_{\text{max}} \sim 617 \text{ nm}$.



Sources

Lapis lazuli is found in limestone in the Kokcha River valley of Badakhshan province in northeastern Afghanistan, where the Sar-e-Sang mine deposits have been worked for more than 6,000 years.^[13] Afghanistan was the source of lapis for the ancient Egyptian and Mesopotamian civilizations, as well as the later Greeks and Romans. Ancient Egyptians obtained this material through trade from Afghanistan with the Aryans. During the height of the Indus Valley Civilisation about 2000 BC, the Harappan colony now known as Shortugai was established near the lapis mines.^[3]

According to the Sorbonne's mineralogist Pierre Bariand's leading work on the sources of lapis lazuli in modern times, and to references in *Afghanistan's Blue Treasure: Lapis Lazuli* (2011) by Lailee McNair Bakhtiar, the lapis lazuli is found in "caves" not traditionally considered "mines" and the stone lapis lazuli is from the primary source of the Hindu Kush Mountains in Afghanistan's Kochka River Valley and not in Pakistan.^[citation needed]

In addition to the Afghan deposits, lapis is also extracted in the Andes (near Ovalle, Chile); and to the west of Lake Baikal in Siberia, Russia, at the Tultui Lazurite deposit. It is mined in smaller amounts in Angola; Argentina; Burma; Pakistan; Canada; Italy, India; and in the United States in California and Colorado.^[5]

Uses and substitutes

Lapis takes an excellent polish and can be made into jewelry, carvings, boxes, mosaics, ornaments, small statues, and vases. Its usage as a pigment in oil paint largely ended in the early 19th century when a chemically identical synthetic variety became available.

Lapis lazuli is commercially synthesized or simulated by the Gilson process, which is used to make artificial ultramarine and hydrous zinc phosphates.^[14] It may also be substituted by spinel or sodalite, or by dyed jasper or howlite.^[15]

CHARLIE SOUTHWORTH TRIBUTE AT ARKONA'S ROCK GLEN MUSEUM SPONSORED BY THE ARKONA LION'S CLUB AND HOSTED BY BOB O'DONNELL.

Article by Roger Campbell



I recently attended the open house on July 28th at the Arkona museum on behalf of our club. Bob requested my assistance with setup and to hand out our club info to visitors of the event.

For those of you that do not know of Charlie Southworth (1880-1968), he was an avid fossil collector in the Arkona-Thedford area for three quarters of a century. His knowledge of the area brought in numerous great paleontologists and had numerous fossils named after him. This event was to honour Charlie and his contributions.

Bob and the Lions hosted a well attended event with guided fossil tours at Rock Glen and Hungry Hollow, numerous displays (above right – large crinoid plate) Bob O'Donnell fossil talks (above left), private fossil collections, raffle table, food booth and club info for Sarnia, London and Brantford. I would congratulate Bob and the Arkona Lions on a successful and fun day.





2018 BOARD OF DIRECTORS

EXECUTIVE	PRESIDENT: CONSTANCE HANSCOMB	519-720-0679	cshanscomb@yahoo.com
	VICE PRESIDENT: CLAUDIA MESSIER	289-309-7774	lamecow@hotmail.com
	TREASURER: JOAN CAMPBELL	519-752-9756	plattelandjoan@gmail.com
	SECRETARY: ALLAN HIETAPAKKA	519-732-9825	Allan.hietapakka@hotmail.com
OTHER DIRECTORS	SHOW CHAIR 2018: BOB PARRY	519-448-1236	robert@roberthalloriginals.com
	NEWSLETTER EDITOR: JEANNINE JOHNSON	905-543-9220	jjohnson3733@cogeco.ca
	SOCIAL: CAROLYN HAYES	905-929-1080	hayescarolyn7@gmail.com
	PROGRAM: BETTY PARRY	519-448-1236	betty@roberthalloriginals.com
	FIELD TRIPS: ANDREA LARROMANA	519-761-2135	andrea.larromana@yahoo.ca
	CCFMS REP: JOHN MOONS	519-752-9756	campbell.moons@silomail.com
	LIBRARIAN: DARREN GAGE	519-758-8426	darren_gage@hotmail.com
	WORKSHOP CHAIR PERSON: ERNIE EDMONDS	519-583-9457	
	WORKSHOP INSTRUCTOR: RITA APANAVICIUS	289-682-7612	apanavr@gmail.com
	IMMEDIATE PAST PRESIDENT: JOHN MOONS	519-752-9756	campbell.moons@silomail.com

LIGHTER SIDE

