



The Pink Dolomite Saddle

Monthly Bulletin of the Niagara Peninsula Geological Society

September 2017

www.ccfms.ca/Clubs/NPGS/

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Roman, Glenn and Dave at the new Niagara Glen Interpretive Centre

Photoby DarleneSloggett

Next Meeting: *Friday September 22, 2017*

This time only – the 4th Friday of the Month!

Special Event: *Geological Show and Tell*

Participants: Assorted Club Members

Objective: Discussing Summer Discoveries

Location: Brock University

Meetings are *usually* held every third Friday Sept-June at Brock University
Department of Earth Sciences, Room D-309 at 7:30 PM.

Visit us on Facebook at: <https://www.facebook.com/groups/1392693367698780/> our Show page is:
<https://www.facebook.com/pages/NPGS-Gem-Mineral-Fossil-Show-Sale/549387778513135>



THE NIAGARA PENINSULA GEOLOGICAL SOCIETY

The **Niagara Peninsula Geological Society** (N.P.G.S.) was established as a non-profit organization in 1962 to promote the study of earth sciences, the hobbies of mineral and fossil collecting, and the lapidary arts.

Our focus is on collecting minerals, fossils, crystals and jewellery making. Collecting trips to quarries and other locations throughout Ontario and the U.S.A. are arranged several times during the year.

Meetings are held the third Friday of each month, September to June, Room D-309, Department of Earth Science, Brock University, St. Catharines, Ontario. Regular meetings begin at 7:30 PM with workshops starting at 7:00 PM. Each meeting usually consists of a discussion on club business followed by a presentation from a guest speaker. Children's workshops are hands-on educational modules about some aspect of earth science and are geared toward junior members ranging in age from 3 to 12.

Each year the N.P.G.S. hosts GEO-VENTURE, our annual gem, mineral and fossil show. The show consists of several regional gem, mineral, or fossil vendors along with N.P.G.S. member displays and demonstrations. The general public is invited to attend GEO-VENTURE to purchase items of interest from the vendors and learn a little bit more about earth science and the hobbies of lapidary arts and mineral and fossil collecting.

New members and guests are welcome any time.

Individual memberships are \$15

Family memberships are \$20.

More information about the Niagara Peninsula Geological Society is available at www.ccfms.ca/Clubs/NPGS/ Questions or comments are welcomed at npgs@ccfms.ca.

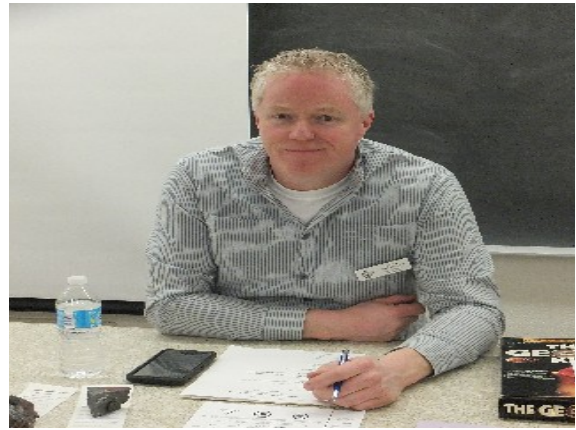
THE PINK DOLOMITE SADDLE BULLETIN

The Pink Dolomite Saddle is the "official" newsletter of the N.P.G.S. The Saddle is geared toward keeping N.P.G.S. members informed of club activities, regional events and other items of general interest to the N.P.G.S.

Members are requested to submit articles or reports of interest regarding earth science or the hobbies of lapidary arts and mineral and fossil collecting. **All articles should be submitted to The Editor no later than the 1st of each month**

The Pink Dolomite Saddle is published ten times per year and is distributed to members of the N.P.G.S. as part of their annual membership dues. Non-members may receive the Pink Dolomite Saddle on a subscription basis of \$10.00 per year. There is a nominal charge for business advertisements.

Items from this bulletin may be reprinted, unless otherwise stated, providing proper credit is given to both the original author and this publication.



NPGS Club President **Kevin Strooband**

PRESIDENT'S CORNER

September 2017

Hi Everyone!

Fall is in the air! I hope you all had a great summer and your travels proved fruitful.

We look forward to seeing many of you at our next meeting one week later than usual – on September 22, 2017 at Brock University.

Over this past summer we had the pleasure of being represented at the opening of the Niagara Glen Interpretive Centre – thanks to Glenn & Darlene and Roman and Dave. Also during the busy summer we held a widely successful show and a big thank you to all of the club members who made it happen! Trips to Ridgemount Quarry, Killarney and Bancroft were a success and thank you to Ashley for that!

Soon our club members will be able to enjoy a recent donation from Pat Galway's family which includes: a box of geology books, reference texts and DVD's – stay tuned for more details.

We are still looking for a couple of volunteers to assist with some club tasks: a kid's club convener and a hospitality coordinator to bring coffee and eats to our monthly meetings.

Don't forget about our upcoming trip to the Beamsville Quarry – more information is available in our newsletter. Please come to our meeting on September 22 and be sure to bring your 'Show & Tell' items to wow the group!

Kevin

NPGS President **Kevin Strooband**

Kids' Rock Club

For health reasons, our current Kids' Club Co-ordinator, **Fran Sorrenti**, will not be able to lead the kids' group this year. We need a volunteer or better still – volunteers to step up and keep the club going. Please consider helping out.

We currently have 46 children in our Club. All monthly Sunday afternoon sessions are held at the Firemen's Park, Niagara Falls and begin at 1pm and end at 2:30 pm. Please contact Kevin, Fran or any other member of the executive .

NPGS FIELD TRIPS , SUMMER 2017



Eurypterid unearthed, Ridgemount July 6, 2017

Ridgemount Quarry, Ridgeway, ON

What could be found:

Bertie Formation fossils (eurypterids) & possibly Bois Blanc fossils

Bertie Formation - late Silurian Period, Přídolí Epoch, 423±1.5 to 419.2±2.8 Ma

Bois Blanc Formation - Early Devonian Period, 419.2 ±2.8 to 393.3±2.7 Ma

Ridgemount “South” Quarry, Ridgeway, July 13

Devonian reef fossils (Onondaga Peninsula)

Not a currently-working quarry.



Ridgemount South Quarry fossils found July 2017

What could be found:

Edgecliff Member reef fossils, lowest strata of the Onondaga Escarpment / Formation

@ Emsian-Eifelian Stage boundary of the Devonian - 393.3±2.7 Ma

OUR WEEK LONG CAMPING FIELD TRIP!

French River, Sudbury, Killarney, & Manitoulin environs, ON

Saturday, August 12th thru Sunday, August 20th, 2017



Quartz, pink calcite (?), pyrite, & chalcopyrite from Nipissing Mine Site – Killarney Day 5

What could be found:

Sites ranged from Superior Province, Sudbury Event, Southern Province, Grenville Province (all Proterozoic, anywhere from 2.3 Ga to 900 Ma minerals), and Silurian Period fossils, 443.8±1.5 to 419.2±3.2 Ma.

Bancroft Summer Field trip



Radioactive rock, MacDonald Mine found on Bancroft Trip Day 2

You can look forward to Ashley's verbal Field Trip report at our meeting or check out the Daily Field Trip Diary on our Facebook page.

Brad's Jewellery Tips

FIND THE BALANCE POINT

With odd-shaped pendants or earrings it's often difficult to find the right place to attach a bail or loop so that the piece is balanced and hangs straight. A quick way to make a tool for this is to modify a set of tweezers. Any set of tweezers will work. Spread the tips, sharpen them with a file, and bend the tips at a right angle to point towards each other. To use the tool suspend the pendant or earring between two sharp points to see how it will hang.

DRILL BREAKAGE

Using a small drill is difficult for a beginner, especially if it is hand held in a flexshaft or Dremel. They are easily broken if you push too hard or if you tilt the drill while it's in the hole.

Most problems, however, are the result of buying cheap drills that suffer from poor quality steel or inaccurately ground cutting edges. A good drill from jewelry supply companies is well worth the price.

Remember that drilling always goes easier with

lubrication. A little wax or oil is all you need. Almost anything will work - Three and One, beeswax, mineral oil, injection wax, car oil, olive oil, or one of the commercial cutting waxes. The lubricant helps to move chips out of the hole and reduces friction of the drill against the side of the hole, keeping the drill cooler.

JUST A DROP

Hobby shops and model airplane stores carry small plastic dispenser bottles that are handy for putting a drop of flux, oil, or glue just where you want it. They have a length of small metal tubing coming out the top that lets you squeeze out very small drops.



I use one with a short length of tubing for oil when I'm sawing or when drilling harder metals like steel. Another bottle I found in a plastics store has a longer length of metal tubing on it. Plastics people use them for dispensing fast drying glues to join pieces of acrylic. The long metal tube let's you reach into tight places. Either of these is handy for flux at the soldering station.

NEW BOOK ON FOREDOM TOOL BITS

Confused by all the tool bits available for your flexible shaft or hand-held motor tool? "Accessories for the Foredom and Dremel" explains what each is good for, which ones save the most time, and the tool bits that best improve the quality of your work. Also included are bench tips for getting good results and cautions for safe use.

The book is available on Amazon at [amazon.com/dp/B074LG35ZV/](https://www.amazon.com/dp/B074LG35ZV/)

FOREDOM MAINTENANCE

If you have a Foredom flexshaft, it makes sense to check it over every so often to be sure it's running

properly. But how to do that? You've probably lost the little booklet that came with the unit. Well, being the good company it is, Foredom has put together an extensive set of videos on how to do almost anything.

The series covers set-up, lubrication, replacing a sheath, motor maintenance, and handpiece maintenance. Few if any special tools are needed. You can watch the videos at www.foredom.net/flexibleshafthmachinemaintenance.aspx particularly under "Foredom Basics" or the "Foredom Shafting..." categories. Any repair parts needed are available on the Foredom site or from most jewelry supply catalogs.

See all Brad's jewelry books at Amazon.com/author/BradfordSmith

CCFMS Beamsville Field Trip

Just a reminder to let you know of the upcoming Field Trip to Beamsville Nelson Aggregates on **Saturday September 30, 2017** has been confirmed.

Safety Vest (**fluorescent with strips**), Long Pant, Safety Boots (steel toed) above the ankle (**preferred 6" + as they provide support when walking on the rock piles**), Safety Glasses and Hard Hat are required for admittance to the Quarry. Gloves are highly recommended

Sunscreen and plenty of water as days could be hot and Sunny on the trip.

Please do not bring **carpenters hammers** (claw) as they are not designed to break rock.

All attendees must be a member of a CCFMS affiliated club to participate at this event for insurance reasons. Membership cards should be available on request.

Also, this Quarry is a working quarry and admittance is restricted to persons **16** years of age and over.

Plan to arrive opposite the gate of the quarry at about 8:30 am for your sign in and your vehicle tag in. We will enter the quarry about 9:00 am after our safety talk. **Please no late arrivals unless requested in advance.**

Canadian Field Trip Information:

Laws have changed recently in Canada for Safety vests and clothing. You will need to update to the appropriate styles to gain entry to Canadian quarries. Please see this link for information. I have added a Word document you may print out to take shopping with you.

https://www.labour.gov.on.ca/english/hs/pubs/gl_hv_sa.php

Please note we should be wearing Class 2 apparel. Either a vest or T shirt will suffice. Your hard hats must also contain retro-reflective stripes and can be purchased as peel and stick tape at Safety Supply stores.

Beamsville map at following link:

<http://www.ccfms.ca/Events/Beamsville.html>

Happy hunting. See you there,
Jim Glen,
CCFMS Field Trip Leader

NPGS Schedule 2017 -2018

(some re-scheduling may take place to accommodate speakers)

Sept. 22 **N.P.G.S. Monthly Meeting**
This time only – 4th Friday of the Month!
Speaker: Various Club Members
Topic: Summer Geological Adventures

Location: Brock University

- Oct 20 **N.P.G.S. Monthly Meeting**
Speaker: Mysterious
Topic: Very Topical
Location: Brock University
- Nov 17 **N.P.G.S. Monthly Meeting**
Speaker: Inspiring
Topic: Soon to be Revealed
Location: Brock University
- Dec 15 **N.P.G.S. Monthly Meeting**
Speaker: Informative
Topic: Soon to be Revealed
Location: Mountainview Church
 Glendale Avenue, St.Catharines
- Jan 19 **N.P.G.S. Monthly Meeting**
Speaker: Interesting
Topic: Soon to be Revealed
Location: Brock University
- Feb 16 **N.P.G.S. Annual General Meeting and
Executive Election and Potluck Food Fest**
Speaker: Interesting
Topic: Soon to be Revealed
Location: Mountainview Church
 Glendale Avenue, St.Catharines
- Mar 23 **N.P.G.S. Monthly Meeting**
Speaker: Interesting
Topic: Soon to be Revealed
Location: Brock University
- Apr 20 **N.P.G.S. Monthly Meeting**
Speaker: Interesting
Topic: Soon to be Revealed
Location: Brock University
- May 18 **N.P.G.S. Monthly Meeting**
Speaker: Interesting
Topic: Soon to be Revealed
Location: Brock University
- Jun XX **N.P.G.S. 52nd Annual Gem & Mineral Show**
 Time: 10 am to 5 pm
 Cost: \$3 (children under 12 free)
 Location: *Fireman's Park, Niagara Falls*
 Volunteers needed, contact Ashley or Faeryn

Jun XX **N.P.G.S. Annual Picnic Barbeque**
Menu: Delicious
Time: Noon to 5pm?
Location: Soon to be revealed

The NPGS/CCFMS Combined 2017 Field Trip Schedule

Subject to change and updates

Fall 2017: Calendar of 2017 Gem and Mineral Shows and Related Events

Sept. 16-17 51st OLMC Annual Gem, Mineral, and Jewellery Show and Sale,

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

Nepean Sportsplex, 1701 Woodroffe Ave., Ottawa, ON.

Adults \$8; Seniors (65+) \$5; Students \$6; 13-17 \$2

Contact: www.olmc.ca/index.html

Sept. 23-24 "Wonders of the Earth" 48th Scarborough Gem & Mineral Club Show,

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

Don Montgomery Community Centre, 2467 Eglinton Ave. E., Scarborough, ON. Adults

\$5, children \$1. Contact: <http://www.scarbgemclub.ca/>

Sept. 29- Ancaster Gem, Mineral, Bead & Jewellery Show,

Fri. 9:30am-5pm, Sat. 10am-5pm, Sun. 10am-5pm Oct. 1

Ancaster Fairgrounds, 630 Trinity Road, Ancaster, ON.

Admission \$8:00, 12 & under free.

Contact: 519-448-1236 or 1-800-360-2813 or go to: www.ancastergemshow.com/

Oct. 26-27 University of Waterloo Science Open House & Gem and Mineral Show;

Fri. noon-6pm, Sat. 10am-5pm

Earth Sciences Museum, EIT – Centre for Environmental and Information Technology,

1st and 2nd Floors, 200 University Avenue West, Waterloo, ON. Admission free Contact:

519-888-4567 ext. 32469 or go to: <https://uwaterloo.ca/earth-sciences-museum/>

Nov. 17-19 London Gem & Mineral Show,

Fri. 4pm-9pm; Sat. 10am-6pm, Sun. 10am-5pm

Agriplex Building, Western Fair District, 845 Florence St. London, ON.

Adults \$6:00; Children \$3:00

Contact: 519-400-6133, or go to: www.gemandmineral.ca/

CCFMS TRIPS

Beamsville Quarry, Beamsville, ON

Saturday, September 30th, 2017

*Working quarry & strict rules - you will sign/report in - as well as out - and there'll be a Safety Talk - at the Beamsville Quarry Gatehouse. You will require **FULL SAFETY GEAR. Participants MUST be 16 years of age or older.***

What you'll find: Niagara Escarpment / Formation Silurian Period, 443.8±1.5 to 419.2±3.2 Ma Lockport Group + Eramosa, Goat Island, & Gasport Formations dolomite & carbonate minerals & fossils.

Please **register** with CCFMS Trip Leader, Jim Glen
beamsville.dundas.field.trips@gmail.com.

Bowmanville Quarry, Bowmanville, ON

Date to be confirmed - usually around Thanksgiving Day weekend

*Working quarry & strict rules - you will sign/report in - as well as out - and there'll be a Safety Talk - at the Bowmanville Quarry parking lot. You will require **FULL SAFETY GEAR**.*

What you'll find: Middle to Upper Ordovician Period Dapingian - Middle Ordovician - 470.0±1.4 to 467.3±1.1 Ma Darriwilian - Middle Ordovician - 467.3±1.1 to 458.4±0.9 Ma Sandbian - Upper Ordovician - 458.4±0.9 to 453.0±0.7 Ma Lindsay Formation, Collingwood Member (Unit 5) & Lower Member (Units 1 thru 4) minerals & fossils.
Please **register** with CCFMS Trip Leader, Kevin Kidd kevjenn1998@yahoo.ca.

NPGS TRIPS :

Hungry Hollow Quarry, Ausable River, near Arkona, ON

Possibility of a Saturday in October

please register with Ashley Pollock @ npgstrips@gmail.com
kid-friendly

Weekend Long Camping Trip

Saturday, September 9th to Sunday, September 10th, 2017

Stop 1: Canadian Wollastonite - wollastonite (of course), diopside

Stop 2: Frontenac Lead Mine - very white calcite with galena "stripes" & "splotches"

Both sites on Saturday, September 9th

Trip Leader: to be announced

Stop3: Lansdowne Quarry (Potsdam Sandstone & Unconformity) - PreCambrian marble with graphite slivers, Cambro-Ordovician sandstone with ripple marks & enigmatic marine animal trackways - all near Kingston area, ON

On Sunday, September 10th, Trip Leader: Peter Lee

please register with Ashley Pollock @ npgstrips@gmail.com
kid-friendly

Ridgemount Quarry, Ridgeway, ON

Any Friday that you'd like to choose - during the summer, Walker Brothers Quarries/Industries allows - **by permission** - collecting on Fridays only - and **you must call ahead to make a reservation** (905) 680-3755.

*Working quarry & strict rules - you will sign/report in - as well as out - at the Ridgemount Quarry Gatehouse. You will require **FULL SAFETY GEAR**.*

What you'll find:

Bertie Formation fossils (eurypterids) & possibly Bois Blanc fossils

Bertie Formation - late Silurian Period, Přídolí Epoch, 423±1.5 to 419.2±2.8 Ma

Bois Blanc Formation - Early Devonian Period, 419.2 ±2.8 to 393.3±2.7 Ma

Penn-Dixie Paleontological & Outdoor Education Center, Blasdell, New York

Can be visited on any day that's convenient to you.

Visits can be arranged by reservations (716) 680-3755 - or by arriving during regular operating hours.

What you'll find: Mid-Devonian Period, 397.5±2.7 to 385.3±2.8 Ma

Hamilton Group fossils (trilobites)

kid-friendly

Beryl Pit & Rose Quartz Mine, Quadeville, ON

The **Beryl Pit** can be visited on any day that's convenient to you.

This is a **pay-to-collect site** - you'll pay the entry fee for the Beryl Pit at Kauffeldt's General Store in Quadeville.

The **Rose Quartz Mine** is **by appointment** only - you must email the site owners - Dave & Renée Patterson at reneep@nexicom.net - to set up your date & time for your visit.

The Rose Quartz Mine also is a **pay-to-collect site** + fees for rose quartz "collected" (by weight) - these fees will be paid directly to the site owners.

What you'll find:

Both sites are Grenville Province (Proterozoic) pegmatite minerals at both sites + Rose Quartz Mine is a "giant crystal site", ~1 Ga

kid-friendly

Beryl Pit: \$10 per adult, \$9 per student' Rose Quarry: \$20 per adult, \$10 per student. Rose quartz is available at \$2 to \$5 per pound.

Because a couple of other clubs (Kingston, Kawartha, Scarborough) are sharing field trip schedules with us, please expect to see other dates & sites such as, Marmoraton (another big favourite). We'll make sure you can access their schedules.

Please note that all CCFMS club members throughout Manitoba, Ontario, and Quebec are welcome on any of our NPGS field trips - and as can be seen, many more of our Ontario clubs are letting us know their field trip schedules as well.

You will be asked that you show proof of current membership on all field trips.

You will be asked to sign a Liability Waiver (+sign-in/sign-out) on all field trips.

You will need to contact to register and confirm with the various Trip Leaders.

Please don't forget to look at our Field Trips webpage for all kinds of info about field trips in general + specific info about the sites that the NPGS visits.

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

NIAGARA PENINSULA GEOLOGICAL SOCIETY

SEPTEMBER 2017 - AUGUST 2018 DUES

Bring to a meeting or mail along with cheque payable to:

Niagara Peninsula Geological Society
c/o John Tordiff,
120 South Drive
St. Catharines, ON , L2R 4V9

Please check one:

Family Membership \$20.00

Individual Membership \$15.00

Do you wish to receive the newsletter via email?

Name: _____

Address: _____

City: _____ Postal Code _____

Phone (Home): _____ (Work): _____

Email Address: _____

Interests and/or Suggestions: _____

NPGS email: npgsgeo@gmail.com

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

NPGS Facebook page: <https://www.facebook.com/groups/1392693367698780/>

NPGS Show Facebook page: <https://www.facebook.com/pages/NPGS-Gem-Mineral-Fossil-Show-Sale/549387778513135>

Membership term is from September 1st until August 31st. Membership fees are due in September.

