



FOUNDED 1937

## THE WALKER MINERALOGICAL CLUB

100 Queen's Park, Toronto, Ontario, Canada M5S 2C6

[www.walkermineralogicalclub.com](http://www.walkermineralogicalclub.com)

[@Walker Minerals](#)

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### NEXT MEETING

**April 9, 2014, 7:30pm**

**Please arrive around 7:15 pm if possible**

**University of Toronto, Earth Sciences Centre**

**22 Russell Street, Room 2093**

**Speaker: Katherine L. La Hay**

**Retired Instructor –University of Waterloo**

### Crystallography –The Isometric and Hexagonal Crystal Systems

Crystallography is the study of crystals and their shape. There are 6 basic crystal systems - Isometric, tetragonal, orthorhombic, triclinic, monoclinic, and

hexagonal. Katherine will lead us through an examination of the Isometric and hexagonal minerals and demonstrate, with models, the symmetry elements of those

shapes. The symmetry elements include an axis of rotation and a mirror plane. Many guides to rock and mineral identification have a short description of the morphology of crystals and do discuss the axes of rotation and mineral planes. Some descriptions are easier to follow than other descriptions. If you do read one of those chapters and become completely bewildered please do not lose hope. Come to the meeting! Her goal will be to introduce you the topic of crystallography in a fun and straightforward way. Come on out and have some fun.

### **Our Speaker -Katherine L. La Hay**

Ms. La Hay grew up in the south end of Sudbury, Ontario and, originally, became interested in rocks and minerals as a child traveling with her parents on family vacations, collecting amethyst and fluorite near Thunder Bay and Agates on Lake Superior.

Upon attending the University of Guelph, Katherine realized that she could immerse herself in geology and mineralogy, and eventually completed a masters degree in geochemistry, an interesting mix of geology and chemistry.

Eventually, she ended up working at the University of Waterloo as a lab instructor in the Civil Engineering Department then later in the Earth Science Department for over 30 years and retired December 31<sup>st</sup>, 2012. Katherine loved teaching and her favourite courses in all that time were metamorphic petrology and structural geology as well as the introductory mineral course. One of her favourite topics was crystallography and that will be the basis of this month's lecture.

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### **Dinner with the Speaker**

Why don't you consider coming to dinner just before the monthly meeting? It is the tradition of the Walker Mineralogical Club to treat our speakers to a dinner before the meeting they are speaking at. It is a convivial time for all sorts of conversation with the speakers and your fellow club members. All members are welcome to attend. We regularly get together at The Duke of York, Bedford and Prince Arthur, 5:30 pm. Please consider joining our speaker and your fellow club members for an informal dinner meeting before the main event.

### **ROM Mineral Identification Night**

Have minerals that you need help identifying? Why not consider visiting the ROM's monthly "Mineral Identification Night" that takes place on April 9 from 4 to 5.30 pm. Visit before "Dinner with the Speaker"!!

## International Mineralogical Association

(Adapted, with permission, from Geminews, the newsletter of the Montreal Gem and Mineral Club)

The **International Mineralogical Association (IMA)** is an international group of 38 national societies. The goal is to promote the science of [mineralogy](#) and to standardize the nomenclature of the 4000 plus known [mineral](#) species. The IMA is affiliated with the [International Union of Geological Sciences \(IUGS\)](#).

### Working Groups and Commissions

The most active IMA commission is the **Commission on New Minerals and Mineral Names (CNMMN)**. It was founded in 1959 to coordinate the assigning of new mineral names, revision of existing names and discreditation of invalid species. Traditionally, the validation procedure of new minerals is one of the chairman's tasks and the discreditation or revalidation procedure of invalid species are two of the vice-chairman's tasks. In July 2006 a merger between the CNMMN and the Commission on Classification of Minerals (CCM), initiated at the request of both commissions, resulted in the Commission on New Minerals, Nomenclature and Classification (CNMNC).

### Members of the IMA

Among the societies represented at the IMA are:

- [Mineralogical Association of Canada](#)
- [The Chinese Society of Mineralogy, Petrology and Geochemistry](#)
- [Ceska geolicka spolecnost](#)
- [Mineralogical Society of Denmark](#)
- [The Mineralogical Society of Egypt](#)
- [Suomen mineraloginen seura r.y](#)
- [Soci t  Fran aise de Min ralogie et de Cristallographie](#)
- [Deutsche Mineralogische Gesellschaft](#)
- [Committee of Economic Geology, Mineralogy and Geochemistry, Geological Society of Greece](#)
- [Magyaroni F ldtani Tarsulat, Asvanyan-Geok moai Szakosztaly](#)
- [Mineralogical Society of India](#)
- [Societ  Italiana di Mineralogia e Petrologia](#)
- [Mineralogical Society of Japan](#)
- [Mineralogical Society of Korea](#)
- [Koninklijk Nederlands Geologisch Mijnbouwkundig Genootschap](#)
- [New Zealand Geochemical and Mineralogical Society](#)
- [Mineralogisk Gruppe av Norsk Geologisk Forening](#)
- [Polskie Towarzystwo Mineralogiczne](#)
- [Sociedade Geologica de Portugal, Grupo de Mineralogia](#)
- [Mineralogical Society of Romania](#)
- [Russian Mineralogical Society](#)
- [Mineralogical Society of Slovakia](#)
- [Slovenian Geological Society, Mineralogical Branch](#)
- [Mineralogical Association of South Africa](#)
- [Mineralogical Society of America](#)
- [The Swedish Mineralogical Society](#)
- [Schweizerische Mineralogische und Petrographische Gesellschaft](#)
- [Mineralogical Society of Great Britain and Ireland](#)
- [Ukrainian mineralogical association](#)
- [Sociedad Espa ola de Mineralog a<sup>\[1\]</sup>](#)
- [Mineralogical Society of Uzbekistan](#)
- [Asociaci n Mineralogica Argentina](#)
- [Geological Society of Australia](#)
- [ sterreichische Mineralogische Gesellschaft](#)
- [Union Min ralogique de Belgique](#)
- [Sociedade Brasileira de Geologia](#)
- [Bulgarian Mineralogical Society](#)

## List of minerals

It is currently not possible to have a "complete list of minerals". The [International Mineralogical Association](#) (IMA) is the international group that recognizes new [minerals](#) and new mineral names. However, minerals discovered before 1959 did not go through the official naming procedure. Some minerals published previously have been either confirmed or discredited since that date. This list contains a mixture of mineral names that have been approved since 1959 and those mineral names believed to still refer to valid mineral species (these are called "grandfathered" species). Presently, each year about 50-60 new mineral species are officially approved by the Commission on New Minerals, Nomenclature and Classification (CNMNC) of the International Mineralogical Association.

For more information on the new list of minerals and on IMA, click on this link: [The official IMA-CNMNC List of Mineral Names](#)

## Fleischer's Glossary of Mineral Species by Malcolm. E. Back

It would seem appropriate at this time to mention that, recently the new, comprehensive "Fleischer's Glossary" was published by the Mineralogical Record. This great publication lists **all valid IMA mineral species** AND much pertinent data about each, including important Group data on associated minerals. It was originally assembled and edited by Michael Fleischer (1908-1998) and through the years was continued by Joseph Mandarino (1929-2007) together with our own honorary member Malcolm Back. Malcolm has, recently, undertaken the compilation and editing of the current issue on his own, a **tremendous amount of work!** We are all very proud of him! Every mineralogist and mineral collector, throughout the world

should have a copy of this important publication. It is in a small (6"x9") format with wire-O binding, so that it lays flat. It is so handy to pick off of your book shelf and immediately locate the mineral that you want to know more about –formula, crystal system and key reference. It is available, on line, from Mineralogical record book shop at [www.mineralogicalrecord.com](http://www.mineralogicalrecord.com), or at major gem and mineral shows from various book and magazine dealers. Cost US\$34.00, a bargain!

Malcolm is also providing a copy of this book to the Walker Club as a prize for one lucky member to win at one of our meetings (we can't tell you which meeting, though!).

## Nuggets and High Grade by David K. Joyce

While we're on members' publications, it should be mentioned that David K. Joyce has published a compact disc recording of mineral collecting and mining songs entitled "Nuggets and High Grade". The compilation of, mostly, upbeat songs about mineral collecting and mining reflect David's years of mineral collecting experience, often focussing on the fun and foibles of our favourite interest. The CD has now been played on every continent except Antarctica. (David is offering a free copy to anybody going there!) The CD will be available to Club members for \$15.00 a copy once again at the April meeting. After that, it will be available on-line, in the bookstore of book publisher Lithographie at [www.lithographie.org](http://www.lithographie.org).

## 2014 Field Trips

### Thorold Quarry, May 11<sup>th</sup>, 2014

Our field trip committee has been busy planning some very interesting trips for 2014.

The first collecting trip is on May 11<sup>th</sup>, 2014 (Sunday) at the Thorold Quarry in Niagara. The Thorold Quarry is an active limestone quarry owned by Walker

Aggregates and is well known for pink dolomite crystals from years ago. The quarry has dolomite crystals (white & pink), sphalerite, calcite and selenite – with some interesting associations (sphalerite on dolomite encased in crystal clear selenite),. flourite has been found as well as crude galena. We have completed a scouting trip and think you will enjoy this not-often-visited quarry

The date has been selected to link to the CCFMS trip on May 10<sup>th</sup> to the Beamsville Quarry – we encourage club members to make it a two day trip or just join us on May 11<sup>th</sup>.

Please contact Ray Bernatchez ([raybernatchez@gmail.com](mailto:raybernatchez@gmail.com)) or Rob Cook ([rpnbarrie@gmail.com](mailto:rpnbarrie@gmail.com)) to reserve your spot, and be sure to watch for a confirmation email. Space will be limited to 25 people.

Our website is currently being updated with an ecommerce feature, meaning that all field trip participants will need to confirm their spot with their online payment. Details on how to accomplish this will be forwarded to registrants in the next several weeks.

As always, please email your ideas for collecting locations and comments to Rob and Ray at [fieldtrips@walkermineralogicalclub.com](mailto:fieldtrips@walkermineralogicalclub.com) .”



Water –clear gypsum (Selenite) in dolomite vug, Thorold Quarry



Sphalerite Crystals in Dolomite Vug, Thorold Quarry

## Website

We are giving our website a facelift and adding some new features such as a “members only” area where you will be able to see scheduled field trips, as well as be able to register for them using a new online payment system.

We’ll do a soft launch of the new site in April and will look for your feedback.

## Useful Internet Link of the Month

Here’s a good one! Click on this link <http://www.mindat.org/nearestlocs.php>, enter your latitude and longitude and you’ll be shown a number of collecting localities near wherever you are, in the world. It is still up to you to find them, obtain permission to visit, etc., but it could be helpful to you!

## Isn’t technology grand?!

## Like us on Facebook

Click here to get reminders of events, photos of past events and other news: <http://on.fb.me/19zzdTx>

## Newsletter Content

We are always in need of content for this newsletter. If you have news, pictures,

upcoming events or short articles that you would like to contribute, please contact

David K. Joyce, Editor at [dkjoyce@bellnet.ca](mailto:dkjoyce@bellnet.ca) or 905-836-9073.

## Upcoming Events

<b>2014 Meetings</b>		
<b>Date</b>	<b>Topic</b>	<b>Speaker</b>
April 9	Two crystal systems and their associations	Kathy Lahay
May 14	Gems and Minerals of Baffin Island	Brad Wilson, Alpine Gems
June 4	An internationally known mineral collector's retrospective	Bill Pinch
October 8	Borden Gold deposit, Geology and Exploration of Ontario's Newest (and Most Surprising) Gold Discovery	David Palmer, President & CEO of Probe Mines
<b>NOTE: MEETING STARTS AT 7.30 PM;</b> please arrive by 7.15 pm.		

### **Apr. 5-6 Brantford Lapidary and Mineral Society**

42<sup>nd</sup> Annual Gem and Mineral Show, Paris, Ontario, Paris Fairgrounds, 139 Silver St., Paris, ON, N3L 1V5. Dealers, Demonstrations, Exhibits, "Mine for Gems" Display, Silent Auctions both days.

### **April 9 Mineral Identification Night at the ROM 4:00pm to 5:30 pm.**

President's Choice Entrance on Queen's Park, doors nearest Museum subway stop. Visit their website at <http://www.rom.on.ca/en/activities-programs/events-calendar/rock-gem-mineral-fossil-and-meteorite-identification-clinic> or contact at 416-586-5816; [naturalhistory@rom.on.ca](mailto:naturalhistory@rom.on.ca)

### **Apr. 25, 26, 27 Toronto Gem and Mineral Show**

Commercial Gem and Mineral Show with lots of mineral, gem and other dealers. Friday 4-9pm. Sat.-10-7pm, Sunday -10-5pm. Civitan Arena, 1030 Don Mills Road, Toronto.

For more details go to [www.torontogemshow.com](http://www.torontogemshow.com).



- Apr. 24-27**      **41<sup>st</sup> Rochester Mineralogical Symposium** Radisson Hotel –  
Rochester, Airport at 175, Jefferson Road, Rochester, NY, USA,  
14623
- For details go to: [www.rasny.org](http://www.rasny.org)
- May 2 - 4**      **Canadian Micro Mineral Association, 51<sup>st</sup> Symposium**
- Brock University, St. Catherines, Ontario. For more information  
Contact Frank [Ruehlicke@rogers.com](mailto:Ruehlicke@rogers.com)
- May 3**      **Kitchener-Waterloo Gem and Mineral Show**
- Waterloo Community Arts Centre (aka “The  
Button Factory”), 25 Regina ST. S., Waterloo,  
ON. 10am – 4pm. Free admission.
- June 4**      **Joint meeting – Gem and Mineral Club of Scarborough, The  
Walker Mineralogical Club, The Central Canadian Society of  
Mineralogical Clubs and the Willowdale Gem and Mineral  
Club**
- Bill Pinch, an internationally famous Mineral Collector will be  
making a presentation at this special joint meeting of the four clubs
- June 7**      **Niagara Peninsula Geological Society -48<sup>th</sup> Annual Gem, Minera  
and Fossil Show Sale**, Mountainview United Church, 150 Glendale  
Avenue, St. Catherines, ON. For more info, contact  
[npgsshow@bell.net](mailto:npgsshow@bell.net) or visit <http://www.ccfms.ca/clubs/NPGS/>
- June 14**      **Joint Picnic: Walker Mineralogical Club and the Young  
Toronto Mineralogist Club**  
11:00am – 4:00pm, Thompson Park. -Potluck meal, Activities,  
Fun! Details forthcoming!
- July 18 - 20**      **Sudbury Gem and Mineral Club Show**
- Carmichael Arena, 1298 Bancroft Dr., Sudbury, ON  
For info: <http://ccfms.ca/clubs/Sudbury/show.htm>
- July 27**      **Bancroft Gem and Mineral Club Annual Show**
- Royal Canadian Legion, Bancroft  
Great little mineral show with dealers, auction, displays, etc!

July 31  
Aug 1-3

**Bancroft - Annual Rockhound Gemboree**

Canada's largest commercial Gem and Mineral Show  
[www.bancroftdistrict.com](http://www.bancroftdistrict.com)

Nov 1

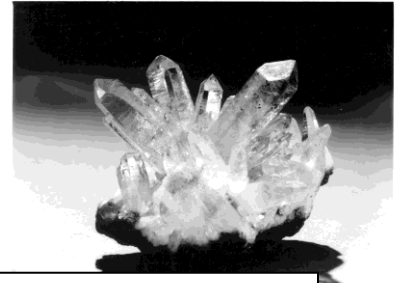
**Walker Club Annual Mineral Auction**

Knox United Church Auditorium, NE corner of Sheppard and  
Midland Avenues.

Viewing starts at 12.00noon. Auction at 1:00pm  
For more info, contact Frank Ruehlicke at 519-880-2716 or  
[ruehlicke@rogers.com](mailto:ruehlicke@rogers.com). Also [www.walkermineralogicalclub.com](http://www.walkermineralogicalclub.com)



# 2014 Membership Form



## THE WALKER MINERALOGICAL CLUB Membership Form 2014

Please check one:  New member  Renewal

Name

Address:

Email

Telephone

*Home*

*Cell*

*Work*

### Membership Fees

- \$30 Single
- \$40 Family (children up to 15 years old)
- \$15 Youth age 14-18

Amount paid:

Cash

Cheque

**Photo waiver:** Pictures taken at meetings, field trips and other events may be placed in the newsletter, website, or used in public displays. Please initial here if you do **NOT** want your picture used.

**Initial here to indicate no photos of you to be publicly displayed:**

CHEQUE ENCLOSED? \_\_\_\_\_

Payment may be made at any member meeting in cash or by cheque, or by sending your cheque to:

Walker Mineralogical Club  
77 Wigmore Dr,  
Toronto ON M4A 2E9