

THE CMLC NEWS

The Canterbury Mineral & Lapidary Club Inc.
Newsletter for September 2023



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Website: www.cmlclub.org.nz
Facebook: Canterbury Mineral and Lapidary Club
Meeting Venue & Clubrooms: 110 Waltham Road, Waltham, Christchurch 7:30 pm on the second Thursday of the month [Feb. to Nov.]

General Meeting (7.30pm): September 14
Committee Meeting (7pm): September 21
Micro Mineral Meeting: Tuesday evenings (7 pm)
Workshops: Every Tuesday evenings, 6.30 p.m.
Geobusters: Sunday afternoons every second month.
www.geobusters.co.nz; Facebook.

The September Meeting: There will be a showing of a YouTube video about the Alpine Fault. This video is very good and easy to understand.

Kitchen Duty for the September Meeting: Errol Hitt, Sam Holt, Nick and Mel Horswell, Colleen Hourson, Margot Janssen-Hansen, Jay Johnston, Vince Burke, Mark Abrahamson, Kim Annan
Lay out the tea, milk, coffee and cups. Do dishes and tidy up the kitchen after the meeting.

September Meeting Auction: Material supplied by Val Lear.

Field Trip: Saturday 16 September to Glen Afric for fossil crabs, bone and shells. Meet at the public toilets just off the main road beside Woodend School at 8.30 am.

New Members: Pleaser make these new members welcome. Ray Forbes, Nick Stevenson, Robert McKelvey and family, Donna Willis and Dion Mara

Club Annual Show: 30 September/1 October. Only 1 more club meetings until the show. We definitely need club members to volunteer for the various jobs that need doing during our show. So far the jobs board has been around the last meeting and there are significant gaps. The board will go around again at our next meeting. If you have not yet put your name forward, please consider doing so.

If you have material for the fossicking area, please bring it during the show, or bring it to the September meeting, and it can be stored.

Remember to bring your raffle donation to the September meeting Many more are needed.

Advertising the show has started. There is a colourful notice on the clubrooms fence, and Facebook posting has started. Please share this post. You can find it at the club Facebook site. There will also be an advert in the Star newspaper just before the show.

There will be some A4 fliers at the club meeting. We need everyone to take some and put them up in cafes, libraries, supermarkets, car side windows, etc, or wherever you know there is a notice board. It is a good time to start scouting out places now.

The August Monthly Competitions Results

Lapidary: Polished lapidary work containing the colour turquoise

1st Zena, 2nd J Taylor, 3rd equal C. Mc Gregor, L.Day

Fossil Fossil crab (NZ)

1st Morne 2nd J.Taylor 3rd D.Macdonald 4th Tyler McBeth

Mineral: Mineral rutile in quartz

1st Ava , 2nd L. Day, 3rd E. Hitt

Alphabet Cup: BMZ

1st C. McGregor. 2nd Zena, 3rd L. Day 4th equal Ava, J. Taylor

Novice Section Any rock you wish to enter

1st Ava

Bring and Brag

1st C. Mcgregor- Ventifact

Monthly Competitions for September (Refer to the July newsletter for guidelines for the competitions)

Lapidary:..... Own Polished lapidary work containing the colours white and black

Fossil..... Fossil wood (NZ)

Mineral: Mineral from Kakanui- Otago

Alphabet Cup:..... DTJ

Novice Section..... Any rock you wish to enter

Bring and Brag.....

More on Field Trips:

The club has for sale hand picks for \$15. These are ideal for work at Whitecliffs. Also for sale are high vis vests for \$5. These vests are a requirement for all club trips into private land areas, and we would also encourage the wearing of them in other areas such as beaches and rivers so our members can be easily identified by the trip leader.

Club Sales Table: Material on this table is getting rather diminished and needs restocking with donated material. If you have material to donate, please bring it along to the meeting.

Some thank you' s

To Ray Jackson who has donated several parcels of gem rough to the club. These are being sorted through and will be used for some fund raising.

To Hans Schumann: Hans has sent me a large collection of articles on New Zealand petrified wood, and other areas of petrified wood elsewhere in the world. Hans has used these articles and research in writing a series of books about petrified wood collecting and identification in New Zealand. The research articles are available from me if you bring a memory stick that I can copy onto. The stick will need to have a large capacity as there are a large number of articles.

The committee has agreed that Hans' books will be printed and bound and be available in our club library. They can also be added to the memory stick.

To Kamen Engel: For sharing the following information:

“Here is a link to the Petrographic Labs and samples available online.

Here are some of the slides - <https://alsdo.canterbury.ac.nz/SEE/GEOL242/slide%20list/>

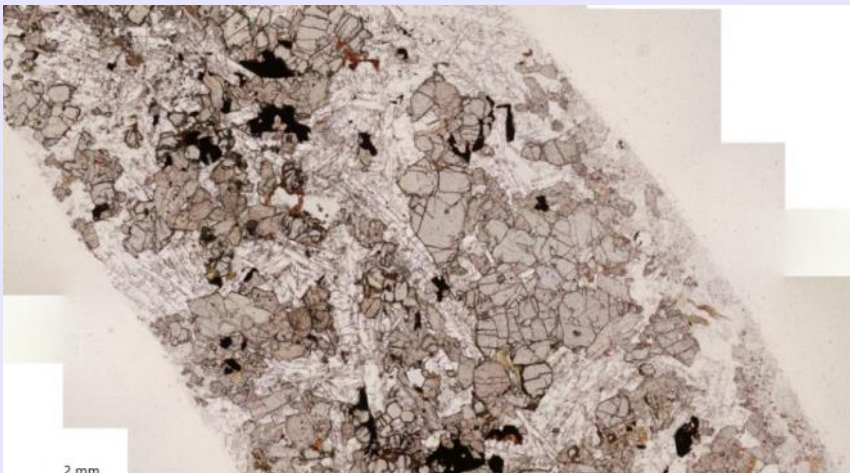
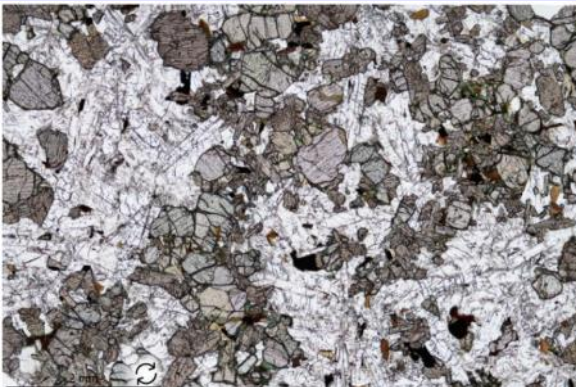
Here are the online labs - <https://alsdo.canterbury.ac.nz/SEE/GEOL242/labs.html>

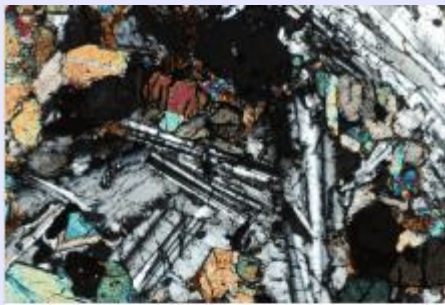
This is my publication on how we designed the online modules - <https://www.tandfonline.com/eprint/UYITTWSZQEYVYXMZ54BCK/full?target=10.1080/10899995.2023.2202285>

If people want to see more cool microscope photos they can check my instagram @kamenengel

The background for this is - I published in the Journal of Geoscience Education and thought it might be interesting to share. The publication was ranked the best in the issue which I was very pleased about.”

The following are some samples copied from these links. The links are well worth while having a browse around. Ed.



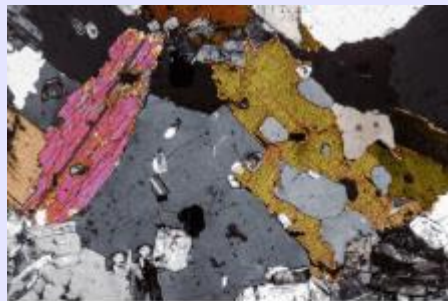


Lab 2: Solid Solution and Mineral ID

This section of the virtual demonstrator covers some of the more important of the following learning goals:

1. Describe and identify clinopyroxene, plagioclase, & an 'opaque' mineral in thin section.
2. Relate the rock and minerals to igneous processes.

Twinning in plagioclase and clinopyroxene is discussed, as well as some whole rock textures.



Lab 4: Igneous Textures

This section of the virtual demonstrator covers some of the more important aspects of the following learning goals:

1. Describe the minerals Orthopyroxene and Amphibole.
2. Identify different intrusive and extrusive textures shown in thin section.

The differences between amphiboles and biotite are discussed followed by a first look at a volcanic sample. An overview of samples KB22 and 2 are also provided.

Amphibole or Biotite 2/2

Now that we are in XPL, we can begin to see some more distinct differences between the two. Think about the crystal shapes, types of extinction, and potential alterations! Which one of these two do you think is biotite?

Mineral A

Mineral B

Great Scott, you're totally right! While the two may look similar in PPL, in XPL there are clear differences you should be looking out for! Remember to watch for "Birds eye extinction" in biotite, and for simple twinning in hornblende! Don't forget that biotite may also be altering to chlorite, in which case you'll see some anomalous extinctions from the chlorite in XPL as well!

Submit
Previous Next

Mineral A

Mineral B

Oh dear! When looking for biotite in XPL remember to look out for its characteristic "Birds eye extinction".

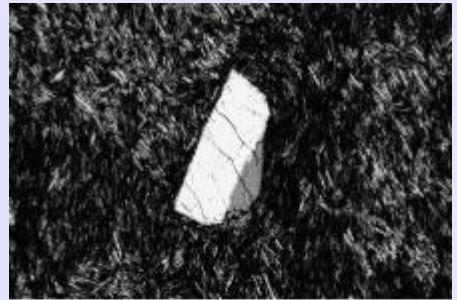


Lab 3: Mineral Identification and Phase Diagrams

This section of the virtual demonstrator covers some of the more important aspects of the following learning goal:

1. Identify and describe the minerals; biotite, chlorite, alkali feldspar, and quartz and use the minerals present to give that rock a name under the IUGS classification system.
 - Classify the Cathedral A thin section
 - Illustrate different types of twinning

Some new kinds of twinning are discussed, along with new disequilibrium textures, weird extinctions, and alterations.

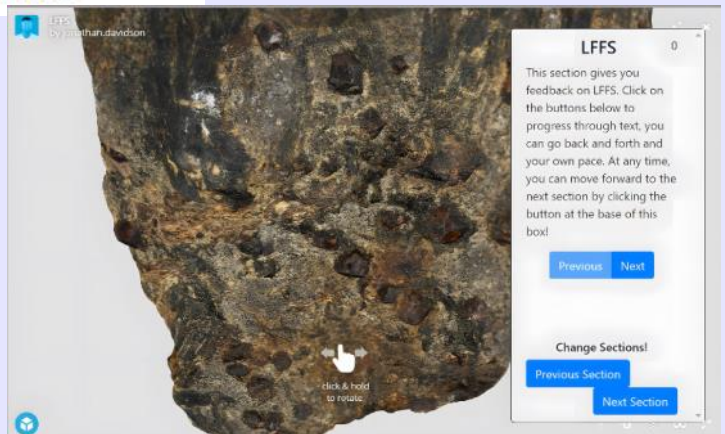


Lab 5: Intrusive and Extrusive Rock Classification

This section of the virtual demonstrator covers some of the more important aspects of the following learning goal:

1. Distinguish between intrusive and extrusive igneous rocks.

A brief overview of Sample CR is given which focuses on volcanic textures.




CANTERBURY MINERAL
AND
LAPIDARY CLUB PRESENTS

2023

GEM SHOW

SATURDAY 30TH SEPTEMBER
9AM TILL 5PM

SUNDAY 1ST OCTOBER
9AM TILL 4PM




110 WALTHAM RD
NEXT TO WALTHAM SCHOOL

ADULTS \$4 CHILDREN \$2 FAMILIES \$10

DISPLAYS SALES KIDS ACTIVITIES FOSSICKING TRAILER

WWW.CMLCLUB.ORG.NZ



HETTIE'S

ROCK & CRYSTAL SHOP

Birdwood Ave, Beckenham, Christchurch.

Also: Akaroa and Queenstown

Also: Akaroa and Queenstown





GEMSTONE & FOSSIL MUSEUM

**67 HILLVIEW ROAD,
BIRDLINGS FLAT**

Owners: Vince & Colleen Burke

Phone: (03) 329 0812

Email: gemstonemuseum@gmail.com

Open 9:30am till 5:00pm (seven days a week)

Sender CMLC, 1 Arlington Street, Burnside, Christchurch 8053.

COMING EVENTS:

Canterbury Mineral and Lapidary Club Gem Show: 110 Waltham Rd, 30 September/1 October

National Show 2023 Marlborough Rock & Mineral Club: Marlborough Boys High School. 6 to 8 October.

Micro Minerals Symposium. 13 to 16 October at Teapot Valley near Brightwater.

You could make yourself a holiday trip in the Marlborough/Nelson area with these 2 events.

Taranaki Gem and Mineral Club Show: Labour Weekend.

National Show 2024: Mineral Club of Hutt Valley Wellington

Australia

Gemboree 2024: South Australia: Willunga.