



TAURANGA GEM & MINERAL CLUB INC

P.O. BOX 841 TAURANGA 3144

GEMZONE

November 2021

Unite
against
COVID-19

COVID-ed Again

VILLAGE GEMS

**TAURANGA GEM & MINERAL CLUB Inc.
HISTORIC VILLAGE
17TH AVE TAURANGA**

**POLISHED STONES - CLOCKS – GREENSTONE PENDANTS - MINERALS
NOVELTIES - KAURI GUM - JEWELLERY - POLISHED FACES
MUSEUM & FLUORESCENT DISPLAY**

Rotorua Lapidary



WE HAVE BEEN SERVING NEW ZEALAND SINCE 1981

STOCKISTS OF:

- Tumbling Machines for Stone, Glass & Shell
- Rock Cutting, Polishing & Carving Machines
- Grinding & Polishing Media for Stone, Glass, Shell, Bone and Metal
- Crystals, Minerals & Rough Rock
- Polished Stones
- Fossils
- Gemstone Beads & Metal Clasps & Fittings
- Greenstone & Jade Carvings

SERVICES:

- Stone Cutting, Polishing & Drilling
- Jewellery Repairs & Bead Threading
- Stone Bead Necklace & Earring Making

**HOURS: Monday – Friday 9.30am to 5pm
Saturday 10am – 2pm**

Rotorua Lapidary Rock & Mineral Supplies Ltd
1120 Eruera Street, Rotorua 3010
Postal Address: P O Box 569, Rotorua 3040

Ph: 07 348 8996 Fax 07 348 8621

rotorualapidary@xtra.co.nz
www.rotorualapidary.co.nz

Colin & Bev Simmons

October Club Events

Workshop

Every Tuesday night from 6pm to 7-30pm.
Workshop Is now open during the day again.

Use of the workshop during shop hours:

\$2 per hour

Please pay at the counter

Club Night

Monday 8 November

Juniors from 6 pm – 7.30pm

The junior club night will held off until February 2022

Seniors at 7.30pm

Jim Culbertson available to talk about Herkimer Diamonds.

Interest table: Field trip finds from last trip.
Show and tell last field trip and any project you worked on

Committee - 3rd Wednesday of Month

- 17 November at 7.30 pm.

Meet at the clubrooms.

Field Trip

Sunday 31 October Field Trip – To Hauturu
Postponed .
Puriri Rd Trip
Meet at Paeroa McDonalds Leaving at 9.30am
Nice easy trip.

Sunday 28 November trip will be Whangamata.
Wait at Taungatara Rd for 9:45am departure

NOTE: Contact Graham if you need to carpool. Do check your email in case of bad weather. Graham Hill: 027 2566399 / 07 552 4496



Stone Of The Month
Quartz Crystals or Diamonds

Field Trip cancellations: TGMC takes the safety of its members seriously and has the right to cancel field trips in the event of severe weather warnings or other factors that prevent any trip from taking place. News about changes, postponements or cancellations to a proposed field trip will be advised via email and posted on the Facebook page as soon as possible.

Collection Viewing Night Last Wed of Month

25 November BBQ at Graham Hills place 6pm bring your own meat and desert or salad to share. Bring your own drinks. 120 Borell Road, Te Puna. Parking in paddock opposite.

Club notices

Jan Field Trip 21st-23rd Jan - Coromandel
There are still rooms available

Remember to take a camera or your phone on the field trips then you can submit your photos for the next newsletter or our Facebook page.

WANTED: Mechanically minded person to help Bryce in the workshop

- People to help paint the inside of our shop a bit closer to summer



TGMC Committee Members 2020 and other Club Officers		
President Shared	Graeme Dewhurst	576 7874
	Carla van den Hout	552 5175
Vice President Shared	Carla van den Hout	552 5175
	Graeme Dewhurst	576 7874
Treasurer	Johanna Raynor	072828126
Secretary Club Email	Steve Raynor sec.tgmc@hotmail.com	282 8126
Membership		
Publicity	Bryce Cooper	0276950606
Shop	Carla van den Hout	552 5175
	Olga Nicholson	575 2070
Shop supplies	Bryce Cooper	0276950606
Field trips	Graham Hill	552 4496
Field trip assist.	Charlie Harris	021 0409332
Workshop	Bryce Cooper	0276950606
	Raymond Schroder	576 3027
Museum display	Margaret Parker	576 2660
Facebook admin	Ian Mason	543 4951
	Kristy Phillips	0210397340
Newsletter advertising	Ian Mason	543 4951
Patron	Roger Eade	576 0117
Newsletter	Ian Mason / Gordon Sherwood	543 4951 / 0226323534
Library/Museum	Marcel Authier	572 3034
	John Clark	022 0206812
Maintenance	Bryce Cooper	0276950606
Microscopes		
Silent Auction	Ian Mason	543 4951

New Zealand Events

2022 – National Show. To be hosted by the Canterbury Mineral & Lapidary Club.

Australian events

Carlingford Gem And Mineral Expo 27-28 Nov 645 Pennant Hills Rd, Carlingford NSW, Australia

Health & Safety Matters

Health & Safety for The Workshop

Our Health and Safety Officer has finalized the report and the schedule is displayed in the workshop.

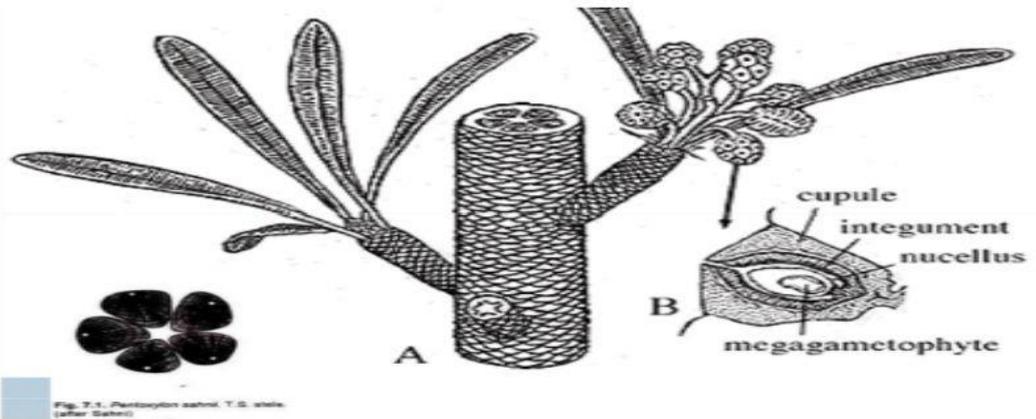
Please read this schedule and make yourself familiar with the health and safety rules for the workshop.

Please note that the club can no longer provide earmuffs and safety glasses for theuse in the workshop, due to hygiene regulations.

Therefor we ask everyone who will use the workshop to bring their own safety glasses and earmuffs. We also ask for everyone to put their name andphone number on the earmuffs and safety glasses.

However, the club will have ear plugs availabe at cost price. The earplugs can be purchased at the shop counter.





PENTOXYLON

AN UNUSUAL FOSSIL TREE

Pentoxylon was the name given to fossil plant stems found in India in the 1930s. Since then, it has been found in Australia and New Zealand. In Australia, it is known from two areas of Queensland, Chinchilla and Muldapilly. In NZ, Pentoxylon has been found in Jurassic Rocks at Curio Bay, Southland. (Photo attached).

Pentoxylon first appeared in the Jurassic Period about 170 million years ago, and was probably extinct by the end of the Cretaceous Period, 65 million years ago.

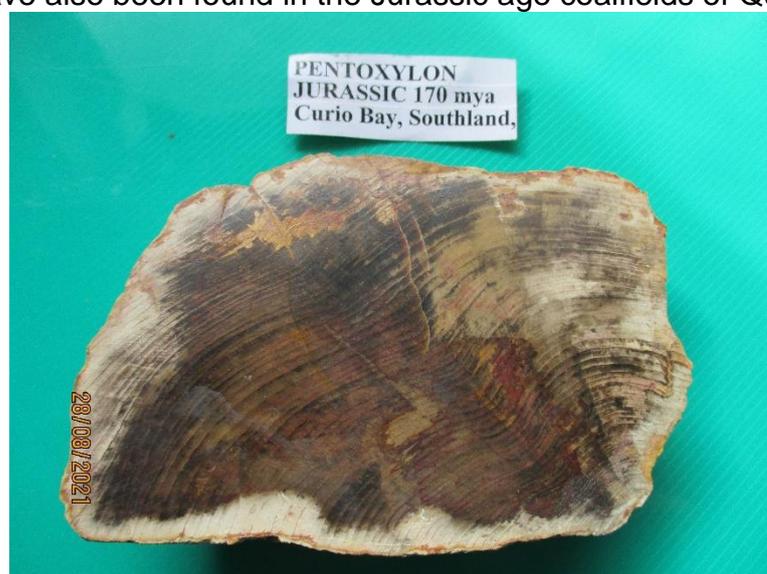
The distribution of Pentoxylon is best explained when we consider that during the Jurassic Period (135-195 million years ago), Gondwana- including Australia, Antarctica, South America Africa, New Zealand and India, were all joined together into one large continent. This allowed for free dispersal of plants and animals including the first birds and the earliest dinosaurs. Gondwana broke up at the end of the Jurassic period, and India started moving to its present position. Africa, Australia, Sth America and New Zealand moved towards their present positions in the early Cretaceous period.

Our understanding of Pentoxylon is based on a study of stems, leaves and cones. It is one of the most known Mesozoic plants.

In Pentoxylon, the branches rise from the central portion of the stem, and the woody traces extend down the centre to the stump of the tree. In cross section, these branches (steles) often appear "egg shaped ". However, the stele of each may be variable. The number of steles in a stem (trunk) may vary from 3 -8. Pentoxylon started growth as a group of saplings, which twisted together to form one tree.

Pentoxylon had many features in common with other plant groups, e.g. conifers, cycads, and seed ferns. The fossil cones, known as Carnoconites , have been found and studied in India and New Zealand, and examples have also been found in the Jurassic age coalfields of Queensland, Australia.

Peter Nixon



BOOK REVIEW

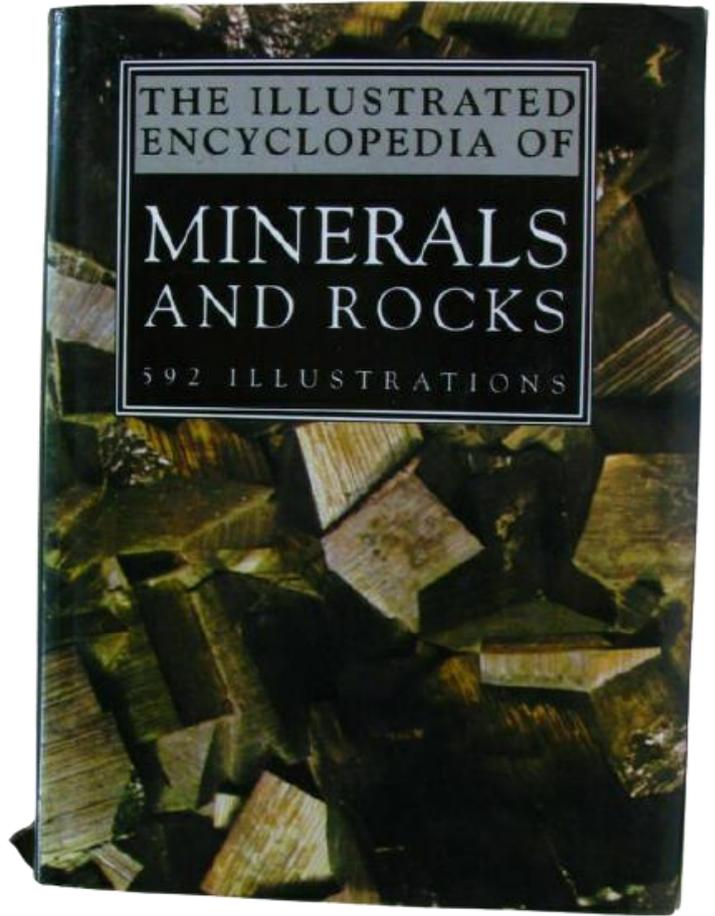
Book Reviews for the newsletter
can be emailed to Ian Mason
imn.mason@hotmail.com

THE ILLUSTRATED ENCYCLOPEDIA OF MINERALS & ROCKS

By J. Kourimsky

Minerals and rocks are objects of fascination and beauty as well as being of historic and scientific interest. This encyclopaedia contains essential information and hundreds of colour photographs to help you identify minerals and rocks. Many aspects of minerals and rocks are covered, including their formation, location and history, as well as their cultural and technological uses. The main physical and chemical characteristics are listed for each mineral and the structure illustrated.

The Illustrated Encyclopaedia of Minerals and Rocks is a comprehensive photographic guide to all the significant minerals and rocks of the world, with detailed and easy to understand information for both the novice and the experienced collector.



Cheers John Clark Tauranga Gem & Mineral Club.

You Can Borrow This Book From The Club Library

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Fossil Leaves Open Window Into Coromandel's Ancient Climate -



A rich treasure trove of information about Coromandel's prehistoric vegetation and past climate has been uncovered near Whitianga. Dorothy and Ian Meredith and Kath Garland discovered the fossils in the clay banks of their property, which were once layers of mud on the bottom of a lake. The families were aware there were fossils hidden on their property and had often taken exchange students, children and grandchildren to look for them. But it wasn't until they saw a television programme on the Foulden Maar fossil site in Otago

that they realised the fossils might be significant. The family approached Otago University geologist Daphne Lee, who realised their potential worth to scientific research. Auckland palaeontologist Bruce Hayward and palaeontologists from GNS Science were contacted and visited the property to sample some of the fossils for analysis.

Violent volcanic eruptions spewed ash and lava over the prehistoric Coromandel landscape, but there were also periods of calm when lakes were formed. On the lake floor, the layers of mud provided perfect conditions to preserve the leaves.

Dr Kennedy says she would be delighted to hear from anyone in the Coromandel who has found fossilised leaves. "The Miocene was a time when climate was warmer than present day, so these plants can tell us about the type of climate we might expect in coming centuries if we don't reduce carbon emissions.

This study is part of ongoing research by GNS scientists to use the local geological record to improve our understanding of the potential impacts of future climate change.

<https://www.gns.cri.nz/Home/News-and-Events/Media-Releases-and-News/fossil-leaves-open-window>



Graeme Hill had the privilege of fossicking for these Miocene fossils from the same property as the article above where he collected these amazing finds.

**THE THAMES SCHOOL of MINES
MINERAL MUSEUM**

101 Cochrane Street Thames

One of Australasia's finest mineralogical collections started in
1870 on The Thames Goldfield

Open Wed – Sun 11am - 3pm Adults \$10.

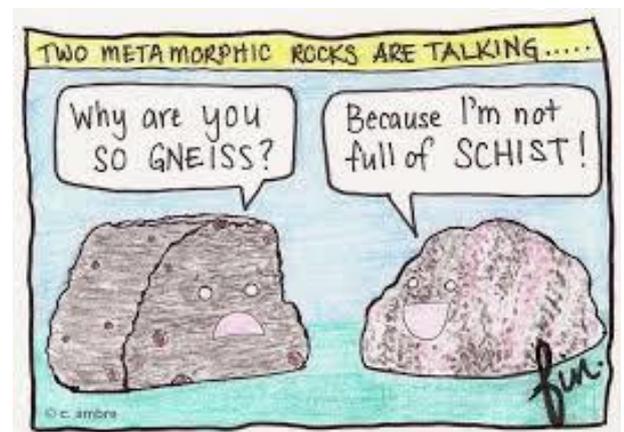
Unaccompanied children \$5

Extended opening over summer. Local heritage & group
concessions.

Group tours by arrangement,

Phone 07 08686227

Email tsm@historic.org.nz



WANTED TO BUY

Wanted to buy: I am looking to buy any lapidary equipment. I am most hoping to find any slab / trim saw 8" or 10" or larger. Any equipment for cabbing & grinding. Contact: kathy.gott@gmail.com

Wanted to buy: Collections of Minerals, Crystals and polished faces. Large or small, part or all.
Contact Greg 575 3851.

Wanted to buy: Bob Vear is looking for NZ Fossils Ammonites and Trilobites or any interesting fossils. Location identified preferably.
Contact Bob (07) 543 0660.

Wanted: Please drop off any surplus egg cartons at the shop for Ian Mason.

Wanted to buy: Gold, silver, any old or unwanted jewellery made of gold or silver for scrap. Top scrap prices paid. Contact Graeme on 07 577 1979 or 027 4496 960; email carver.petersen@xtra.co.nz

What are the Birthstones for November?

Topaz

Citrine



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TAURANGA	cnr elizabeth & glasgow sts (OPEN 7 DAYS)
MOUNT	37 hewletts road. (beside the flyover)
GREERTON	1231 cameron rd (next to super liquor)
FRASER COVE	corner of fraser & brook streets
OTUMOETA	95 ngatai road (near the otumoetai golf club)



WANTED TO BUY

Collections of minerals
and crystals.

Lapidary material rough
and cut.

Phone Greg 07 574 0905



DIAMOND & Co

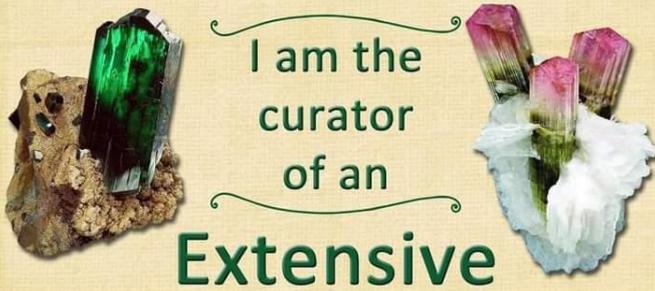
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155 Maunganui Rd,
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I am not a
Rock Hoarder
 I am the
 curator
 of an
Extensive
Private Geological
 Collection



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