



TAURANGA GEM & MINERAL CLUB INC

P.O. BOX 841 TAURANGA 3144

GEMZONE

September 2020

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



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- 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

September Club Events

Workshop

Every Tuesday from 6pm to 7-30pm.

This is the only session where you will not pay workshop fees outside of club night activities. Otherwise ask at the shop or find details of the hourly rates in the workshop book.

Club Night

Monday 14 September at the Club rooms

Juniors from 6 pm – 7.30pm: Carry on with carving or use the workshop. Learn about the show competitions for juniors with Graham.

Seniors at 7.30pm: Workshop night plus more on showcases.

Stone of the Month: Fossils.

Committee

Wednesday 16 September 7.30 pm. Meet at the clubrooms.

Collection Viewing Night

Wednesday 30 September 7.30 pm

Meet at the home of Steve and Joanna Raynor, 18 Diamond Head, Hairini. Phone 282 8126 or 027 247 0994. Parking in the driveway is OK.

Please bring something to share for supper and any interesting rocks for identification or discussion.

Field Trips

Sunday 27 September: Obsidian near Waihi. As we will be on private property please bring a small gift for the landowner.

Meet at the Village at 8am.

Do check your email in case of any cancellation due to weather.

Graham Hill [0272566399](tel:0272566399) / [07 5524496](tel:075524496)

GEMSTONE, CRYSTAL & FOSSIL SHOW

2nd - 4th October 2020

Tauranga Racecourse, 1383 Cameron Road, Greerton



Fri 2nd October 9am – 5pm

Sat 3rd October 9am – 5pm

Sun 4th October 9am – 4pm

Auction @ 5pm Saturday 3rd October

Live Demonstrations, Gold Panning, Activities,

Fossils, Gemstones, Minerals, Crystals, Jewellery, Hands-On Working Machines,

Huge Selection from NZ and Overseas for Sale, Metaphysical Supplies

Entry: \$5 Adult / \$2 Children / \$10 Family



Hosted by Tauranga Gem & Mineral Club

www.tgmclub.com

Rock donations are needed now for our October Show

⇒ Rough Rock for the trailer sales

⇒ Small smooth stones to make giant ice blocks are needed please - as soon as possible!

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.

TGMC Committee Members 2020 and other Club Officers		
President	Graeme Dewhurst	576 7874
Vice President	Carla van den Hout	552 5175
Treasurer	Naera Wilton	07 864876
Secretary Club Email	Carol Cunningham sec.tgmc@hotmail.com	578 1639
Membership		
Publicity	Bryce Cooper	027 6950606
Shop	Carla van den Hout	552 5175
Shop supplies	Olga Nicholson Bryce Cooper	575 2070
Field trips	Graham Hill	552 4496
Field trip assist.	Charlie Harris	021 0409332
Workshop	Bryce Cooper Raymond Schroder	576 3027
Museum display	Margaret Parker	576 2660
Facebook admin	Ian Mason Dean Morman	543 4951 572 3184
Newsletter advertising	Steve Raynor	282 8126
Patron	Roger Eade	576 0117
Newsletter	Sue Millman	544 4878
Library/Museum	Marcel Authier John Clark	572 3034 022 0206812
Maintenance	Bryce Cooper	
Microscopes	Cesar Etchevarne	0220160996
Silent Auction	Ian Mason	543 4951

New Zealand Events

26-27 September: Canterbury Mineral & Lapidary Club annual show at 10 Waltham Road, Waltham, Christchurch

2, 3, 4 October: Tauranga Gem & Mineral Club Show at Tauranga Racecourse, 1383 Cameron Road, Greerton.

17–18 October - North Shore Rockhounds Club Mini Show, Milford Senior Citizens Hall, Kitchener Rd., Milford. (rescheduled date)

National Show 2020: CANCELLED due to the Covid 19 outbreak (Canterbury Mineral & Lapidary Club).

2021: National Show: Hosted by Mineral Club of Hutt Valley & Wellington, Lower Hutt

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

Australian events

2-5 April, 2021, Gemboree, Tasmania

15 -19 April 2022 Gemboree Mudgee, NSW

Tauranga Gem & Mineral Show Oct 2nd - 4th 2020

GEMSHOW AUCTION ENTRIES

FINAL CALL

I need the details of your auction entries by Sunday 13th Sept

Minimum retail value per item \$50, Reserve can be lower

Minerals, Crystals, Fossils, lapidary Materials

8 entries per person / 10% sales commission

Contact Greg Lilly 07 5740905 greglilly@xtra.co.nz



Above: An obsidian carving of Rūaumoko at Te Papa
 In Māori mythology, Rūaumoko is the god of earthquakes, volcanoes and seasons.

The Origins of Heat in the Earth

The origins of volcanic fire or heat were in the separation of Ranginui, Sky Father, and Papatuanuku, Earth Mother, by Tanenuiarangi. Because Papatuanuku and Ranginui pined so much for each other, producing clouds, rain, mist, frost and snow, their children turned their mother's face away from Rangi towards Rarohenga, the underworld: The youngest child of these parents, named Whakaru-ai-moko was at that time a child at the breast. They left this child as a comfort for their mother. Now, hence [through Whakaruai-moko] are the earthquakes, and volcanic phenomena that constantly war against us in every age. And so the youngest brother, also known as Ruaimoko, or Ruaumoko, was given volcanic fire, te ahi komau, to provide warmth and comfort to his mother Papatuanuku. This fire was also sometimes called te ahi tawhito, the ancient fire. Tanenuiarangi took a wife Hinehauone (or Hineahuone), whom he had fashioned from clay, and she bore a daughter, Hinetitama. Later Tane took her as his wife but when Hinetitama found out that he was also her father, she fled to Rarohenga. Henceforth she became known as Hinenuitepo, the great goddess of the night, and she stayed in the dwelling place of Whakaruaimoko and became his wife. They had 21 children whose names "are emblematical for all kinds of volcanic phenomena, earthquakes etc". There were battles among the children of Rangi and Papa, and after his defeat, Whirotipua descended to Rarohenga to the dwelling place of Whakaruaimoko and Hinenuitepo: Now the thought grew in Whiro and Whakaru-au-moko, that they should have but one object in common to avenge the ill treatment of their mother (the Earth) and their father (the Sky). Whakaru-au-moko consented to this proposition, and then Whiro proposed they should operate above in the Ao-tu-roa [the world of light (sic), this ordinary world] and make war on Tane and his elder brethren. Whakaru-ai-moko replied to him, "Ye are all from above; carry on your warfare above. I am from below, and here I will engender 18 my warfare". Whiro asked, "Where will you find weapons"? The other replied, "I will make use of Puna-te-warō [volcanic forces, earthquakes, eruptions, hot-springs], for in it is contained the ahi komau [volcanic fires]". Hence is the origin of the eruptions, the earthquakes, of Hine-tuoi [emblematical for hot-springs], which agitate both land and sea – even from those ancient times of strife down to the present. And, now was given the third name to the 'Ahi Komau' (first), the 'Ahi-tawhito' (second), the 'Ahi-tipua', (third) of Whakaru-au-moko, which cause the landslips, and the fall of rocks and trees, of man, of all things, which Tane and his brethren had made.

Source of text: <https://www.boprc.govt.nz/media/509127/the-legacy-of-ngatoroirangi-maori-customary-use-of-geothermal-resources.pdf>

WANTED TO BUY or SELL

Wanted to buy:

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

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

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

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

2020 Tauranga Gem & Mineral Show

Auction

Everyone Welcome

Join us for a fun evening

Food and drinks will be available

Highlights Include

Huge Golden Cross Calcite

Petrified Wood from Table Mountain

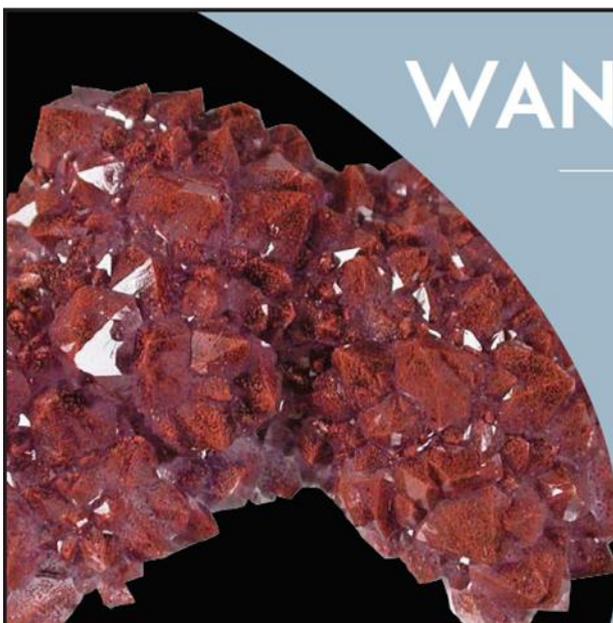
Indian Zeolites

Minerals from New Zealand & Overseas

Some lots at NO reserve

Auction starts Saturday 3rd Oct from 5pm

Register to bid at the show entry prior to the auction



WANTED TO BUY

Collections of minerals
and crystals.

Lapidary material rough
and cut.

Phone Greg 07 574 0905

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Facebook groups to follow

Tauranga Gem & Mineral Club



New Zealand lapidary, Rocks,
Minerals, Fossils



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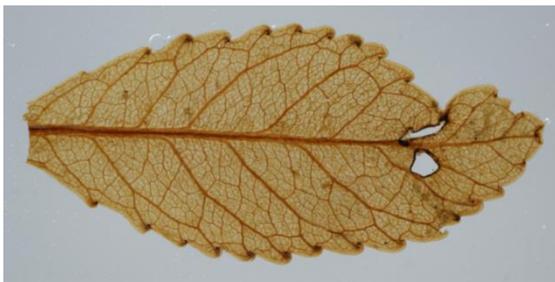
Email tsm@historic.org.nz

The Allen Family Collection



22 Mackenzie Street, Kawerau

Admission free for parties up to 4. Please ring 07 323 9094 - for all appointments to view.



Fossil study shows future conditions may aid plant growth

By Hamish MacLean

Research using fossils from Otago's controversial Foulden Maar site shows possible future environmental conditions may be more favourable to plant growth and forest expansion, resulting in a global greening effect.

The research provided the first evidence that Foulden Maar trees, growing in an environment with elevated carbon dioxide levels, functioned very differently from trees today. Plants that grew in the warmer, high-carbon dioxide environment of Otago millions of years ago could have been better than or as good at conserving water as modern-day trees in much more water-stressed environments.

The leaves at Foulden Maar are mummified, therefore the site presents a very rare opportunity to make anatomical and chemical measurements on the leaves that translate directly to climatic and atmospheric conditions at the time the forest was growing. When the rainforest around Foulden Maar, which is near Middlemarch, existed, the amount of carbon dioxide in the air was about 20% to 30% higher than today, and similar to levels projected in about two decades' time, he said.

In the not so distant future, environmental conditions could be more favourable to plant growth and forest expansion — a global greening effect.

<https://www.odt.co.nz/news/dunedin/fossil-study-shows-future-conditions-may-aid-plant-growth>

Reichgelt, T., D'Andrea, W. J., Valdivia-McCarthy, A. d. C., Fox, B. R. S., Bannister, J. M., Conran, J. G., Lee, W. G., and Lee, D. E.: **Elevated CO₂, increased leaf-level productivity, and water-use efficiency during the early Miocene**, *Clim. Past*, 16, 1509–1521, <https://doi.org/10.5194/cp-16-1509-2020>, 2020.

⇒The Radio New Zealand programme [Nights](#), (7:13 pm on 26 August 2020) featured a fascinating interview with Associate Professor Lee, who goes into quite a bit of detail about the study.

Paragonaster felli This 103 million year old starfish fossil was recently identified as a new species. It was found at Motu River on the East Coast.



On the left hand side is the actual specimen and on the right hand side is an internal latex mould. Both are whitened for photography.

The remarkable preservation of this specimen is quite unique for fossil starfish, especially of this age.



Carrier shell (*Xenophora prognata*).

Left: This clever snail camouflaged itself with stones and other shells 13 - 27 million years ago. This one was found in rock near Lake Waitaki, Otago. (National Paleontological Collection).

Below: **WormTrace Fossil**

This intricate pattern is a trace fossil, likely to have been made by a suspension-feeding worm called *Paleodictyon* that lived in deep marine mud and silt. Trace fossils are the activity remains of organisms, such as tracks, burrows, and footprints. *Paleodictyon* created a regular, geometric network of hexagonal structures as it burrowed through the sediment. This specimen was found on the Wairarapa Coast, north of Castlepoint. Scale bar = 5 cm. (National Paleontological Collection).



Fossil must-haves: ornamental rock.

A vigorous industry is being developed mainly in Erfoud, Morocco to cut, carve and polish Paleozoic rocks. The two types of fossiliferous limestones used are: black-bluish Tazarine stone (or 'Tazarine marble') and brownish to reddish Erfoud stone (or 'Erfoud marble').

Diverse objects carved in fossiliferous stones from the Tafilalt, Morocco.

Top left: A selection of objects made in black Silurian limestone (tray, vase, Coca-Cola bottle).

Below left: A complete toilet bowl (real size) carved in Devonian cephalopod limestone. Matching sinks and shower plates are also available..

Canterbury Mineral and Lapidary Club



Gem Show 2020

September 26 and 27

Gemstones, fossils, minerals

Displays, sales, fossicking trailer

110 Waltham Rd (Next to

Waltham School)

Saturday 26 Sept. - 9 a.m. to 5 p.m.

Sunday 27 Sept - 9 a.m. to 4 p.m.

Adults: \$3; School Children: \$1



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FRASER COVE	corner of fraser & brook streets
OTUMOETA	95 ngatal road (near the otumoetai golf club)

