

Mineralogica Tasmanica



**THE MINERALOGICAL SOCIETY OF TASMANIA
JOURNAL & NEWSLETTER
NO. 75, NOVEMBER 2010**

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Meetings Are held on the second Friday of each month at 7.00pm,
in the first year lecture theatre, Geology Dept., University
of Tasmania, Sandy Bay. Visitors are most welcome.

Membership fees \$15: single, \$20: family (includes 4 newsletters/yr)

Patron: Professor Ross Large, University of Tasmania

Website: <http://www.mineral.org.au/socs/taspg001.html>

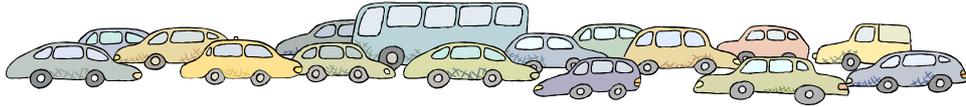
ABN: 49 582 252 658

*The Mineralogical Society of Tasmania is a member body of the
Tasmanian Lapidary and Mineral Association Incorporated.*



*Barytocalcite, Rosebery mine, Rosebery, Tasmania.
Ralph Bottrill specimen and photo. FOV 60x70mm.*

PROGRAM / EVENTS



February	Meeting: Mexican caves
February	Field Trip: Arizona?
March	Meeting: Mike Jagoe – minerals of Ontario
March	Field Trip?
April	Meeting: Dave Duncan - Zeehan
March	Field Trip?
May	Meeting: Ambros Kissling - Sweet Home mine
June	Meeting: Ralph - Tucson talk

TLMA programs: In Prep.

Italicized items are non-MST events: ask Ralph for contacts.

Nb: Most trips are tentative dates. PLEASE CONFIRM field trip details and your attendance, at least two days in advance, with a nominated **Field Trips Officer** or contact the president.

Thumbnail Boxes

We have a supply of these available now.
Clear Lid, white or black base

From \$1.80 each, with quantity discounts.

Size (Metric): 38mm x 38 mm x 32 mm
Base Size: 38mm x 38 mm x 11m



Mt Bischoff
tin mine,
Waratah,
1886, pen &
ink sketch
by S. Schell

MOUNT BISCHOFF TIN MINE

PRESIDENT'S REPORT

Recent MST affairs



At the 13th August monthly meeting Bill Baker spoke on Saxony and its minerals (Part 2).

On the 21st we had our August Field trip to the HBMI Quarry, Bridgewater (see p. 14)

At the 10th September meeting: Tony Joyce spoke on “Brett’s big adventure” (his collecting trip to WA with Brett Chandler)

At the 8th October meeting: Ralph presented the “Gold Fever in Tasmania” DVD

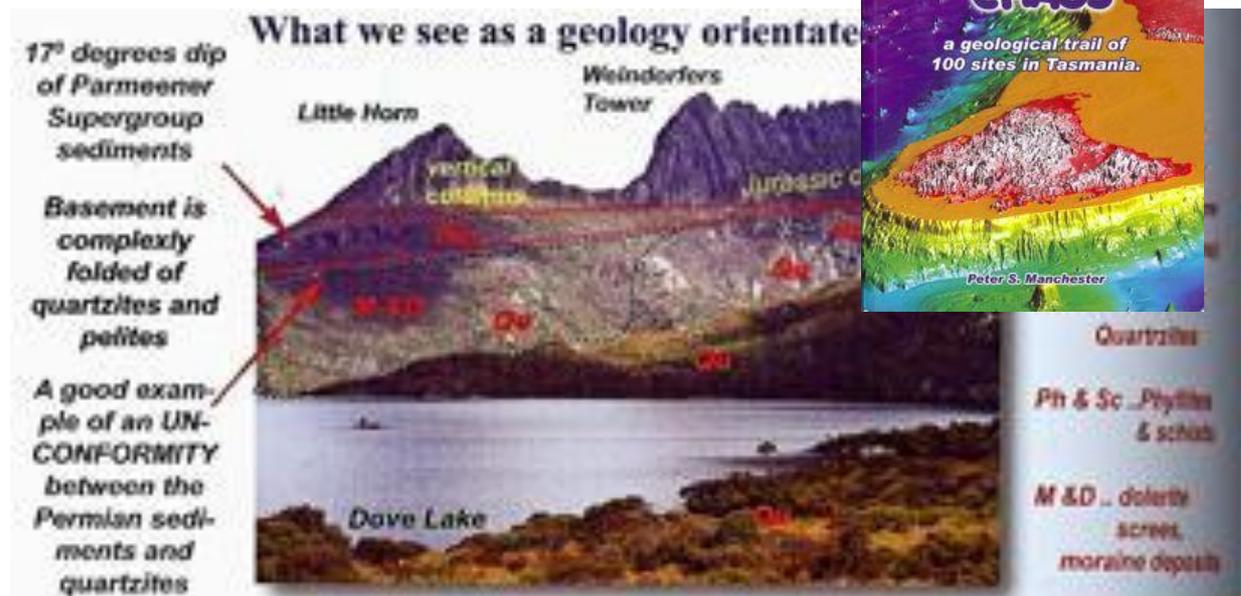
On the 5-7th November we had the great Zeehan gem & mineral Fair (see p. 15).

At the 12th November Meeting: R. Bottrill presented a talk on Tasmanian mineral Museums.

Ensuing discussion suggested we need to raise our profile to help these collections, and we are working on this.

Created from Chaos

A geological trail of 100 sites in Tasmania, written by geologist, teacher, photographer and our own MST member Peter Manchester, this excellent book has just been released. This is a well illustrated description of 100 of the best and most accessible geological features in Tasmania, written for the layman. This is a book that we should all take with us on our trips to help us understand our landscape and its formation. They are available in some bookstores now for \$60, but members of the society can get copies for \$50, plus \$8 postage if required (contact Peter on milingandi@vision.net.au or Marnie or Ralph will take orders).



MST LIBRARY

Interesting articles in journals recently received include:

Micronews (Canada)

44 (5): Magnet Cove

44 (6): Mt St Hilaire, Tsumeb

NW Tas Min Club

(Aug/Sept 2010): Back Ck; Qld Amber

Mineralogical Society of WA Newsletter

Sept'10: S. Aust seminar & trip

Mineralogical Society of Vic Newsletter

Oct '10: Some mines and minerals of E. Victoria: Deddick

Mineralogical Society of Qld Newsletter

59: Joint Seminar meeting & trip

60: Broken Hill trip; Tigers Eye

Mineralogical Society of NSW Newsletter

Aug 2010

Sep 2010: Garawilla minerals

Oct 2010: Qemscan; Mineral collecting

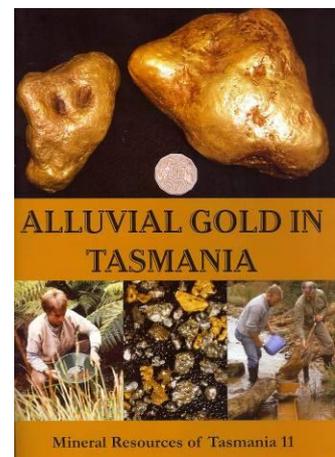
Nov 2010: Mineral catalogues; Mineral deposits and plate tectonics



Many interesting articles occur in these newsletters; please don't hesitate to ask to borrow these, or any of our books. We also hold many mineral-related books and some videos and CD-ROMs. A catalogue is available from Michael Pope (pope00@ozemail.com.au, ph 03 62442023), who also curates a photo album for the Society; all relevant donations (eg. from field trips) are most welcome (electronic or hard-copy, but please add some details). .

Alluvial gold in Tasmania

The revision of this book is now out, and contains more information on prospecting requirements, nuggets found in Tasmania, and updated information on all the alluvial goldfields in the state. It contains 28 pages, including a map of the main goldfields and GPS locations and information on all known alluvial gold locations. It costs \$7.70 and is a must-have for all gold prospectors. We can show you copies on request (via Ralph).



TLMA NEWS

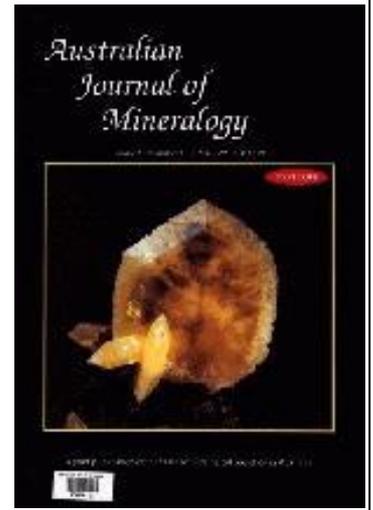
Tasmanian Lapidary & Mineral Association Inc.

The last meeting was held in Zeehan on 7/11/2010. A list of trips is being compiled for 2011, and will be circulated shortly.

The next meeting will be held in Latrobe, during the Latrobe gem and mineral show, on 27/3/2011.

Australian Journal Of Mineralogy

The latest issue of this great journal (15/1-2) is due out soon, as a special issue on Gold in Tasmania . For more information see: <http://www.mineral.org.au/pubs/ajm.html> .We can show you copies on request and provide subscription forms (\$28/yr). The journal is a must-have for all Australian mineral collectors and mineralogists. It is of a similar standard to the Mineralogical Record, but the focus is on articles on Australian minerals and localities. Any contributions, advertising, suggestions can be directed through the editor Dermot Henry (dhenry@museum.vic.gov.au) or the president. The second Tasmanian issue is still in prep. Several back issues of the AJM are available from the society for discount prices to members (via Ralph).



ANZ Mineral Collector magazine

Issue 10 contains articles on:

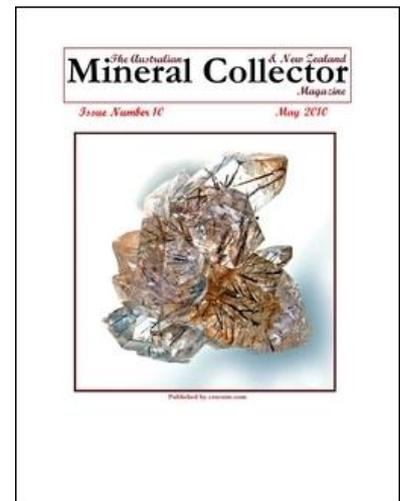
- Editorial - Mineral Magazines and all that...
- News Release - Angastonite
- Sceptre Quartz Crystal Inclusions
- Down Under Trip Report

Purchase options:

The first is to order directly through Lulu in the same way as in the past. High quality printing and a cost of \$US12.50 plus postage: See: <http://www.lulu.com/smartarts>.

The second option is through a printing facility in Melbourne, Australia. The quality is still good, but not quite as high as Lulu. The benefit, particularly for Australian and New Zealand subscribers, is the lower cost which is \$AU12.50 post paid in Australia, and \$AU15.00 post paid to New Zealand. To take up this option, orders will need to come through Steve Sorell: steve@crocoite.com .

The third option is an electronic one. Each issue can be downloaded directly from Lulu. Cost for this option is \$US5.00.



EXHIBITION 2011

The Hobart Gem and Mineral Spectacular 2011

Tasmania's Hidden Treasures

Grandstand Hall, Hobart Showground, Glenorchy

Saturday 19th March 11.00 am – 5.00 pm

Sunday 20th March 10.00 am – 4.00 pm

The next Gem and Mineral Exhibition will be held in the Glenorchy Showground, greater Hobart, Tasmania, Australia. This is the principal gem and mineral show in Tasmania, jointly run by the Mineral Society and the Lapidary Club of Tasmania, now held every year.



For further information:
Ph. Rosemary Aheimer
(03) 6249 1408



THE LATROBE GEM & MINERAL FAIR

Organised by Devonport Lapidary Club

This event will be held at the Latrobe Memorial Hall in Gilbert St (next to the Council Chambers) in Latrobe from 9am to 4pm

Saturday and Sunday March 26-27 2011.

There will be trade tables, gem, crystal and mineral displays and working demonstrations of gem faceting and rock polishing and activities for kids. Free tables will be provided to the Tasmanian gem and mineral clubs for sale and display.

Entry is \$2 per adult, and children under 18 are free.

For further information:

Neil Newman nnewman@internode.on.net ph: 03 6427 0492
And Nigel Burch nigelfburch@yahoo.com.au mob: 0416 195 316

A Catalogue of the Minerals of Tasmania

by R S Bottrill and W E Baker

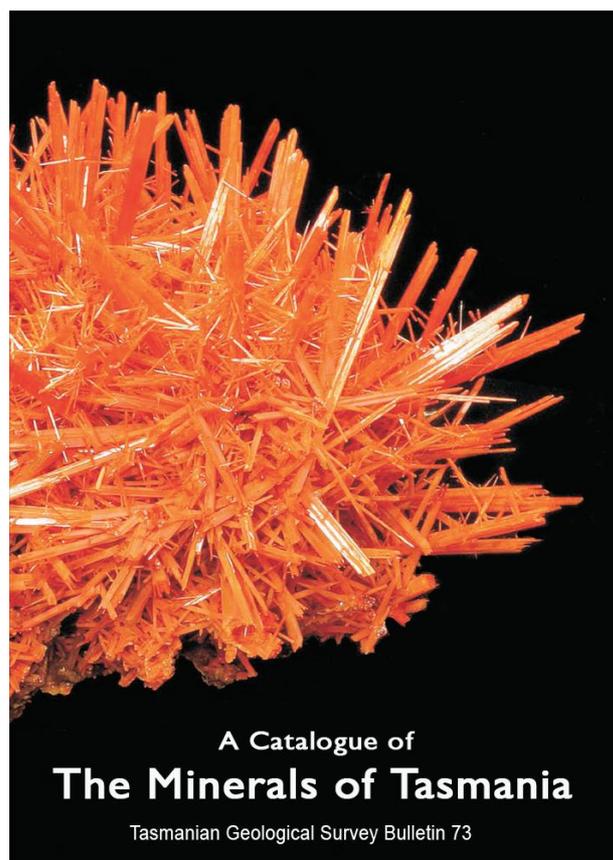
Catalogues of the minerals found in Tasmania have been kept since almost the earliest days of mining and have been of invaluable assistance to prospectors, mineral explorers, mineralogists and collectors. The catalogue was first published by the Tasmania Department of Mines in 1910, and was extensively revised in 1969. Since then the improvements in technology and further investigations of minerals and mineral deposits have not only increased the number of identified species and data on mineral occurrences, but have also invalidated many previous 'species'.

The new Catalogue, published in late 2008, extensively updates the previous catalogue. A total of 753 minerals are described, comprising 483 confirmed species, 162 unconfirmed species, 72 variety or invalid names, and 36 series and group names. All entries in the 1969 catalogue have been re-evaluated and are now reclassified as to their known or likely validity.

Species invalidated or doubted from the 1969 listing have been retained, with comments. The new 254 page A4-size catalogue includes information on mineral occurrences and 314 colour photographs of Tasmanian mineral specimens. The soft-cover book has a recommended retail price of \$49.50 (including GST and post/packing). A very limited number of hard cover books are available only from MRT at \$75 (plus \$5 post/packing).

More info: see MRT Website:

<http://www.mrt.tas.gov.au>



How to get a copy

Copies can be purchased from Mineral Resources Tasmania:

In person:

From our Rosny Park offices,
30 Gordons Hill Road, Rosny Park

By mail:

PO Box 56, Rosny Park, Tasmania 7018

By phone:

(03) 6233 8377

Email:

info@mrt.tas.gov.au

Some will also be available to collect in Hobart from the Mineralogical Society for a small discount – please contact Marnie (pope00@ozemail.com.au).

Cerussite, Magnet

MINERALS FOR BEGINNERS

Mineral Matters 3



By Mike Jagoe

Testing Minerals an aid to identification. Mohs Hardness Scale

Hardness we all have heard of it and most of us use it. It is probably the most useful tool a mineral collector has when trying to find out what a particular mineral is.

All minerals have a definite hardness. We all know diamonds are the hardest naturally occurring material on the planet and All other minerals range from very soft the very hard.

In 1812 a German mineralogist Frederich Mohs (1773-1839) devised a table of mineral hardness that could be used to aid mineral identification. The scale from 1 to 10 is an arbitrary one with no relationship between one number and the next. For example no.2 is not twice as hard as no.1 or no.6 is not twice as hard as no.5 etc.

The table below shows the scale with the minerals of the specific hardness he allocated to the particular hardness.

- 1 Talc
- 2 Gypsum
- 3 Calcite
- 4 Fluorite
- 5 Apatite
- 6 Feldspar (Orthoclase)
- 7 Quartz
- 8 Topaz
- 9 Corundum
- 10 Diamond



Talc, Mt Bischoff

So the scale could be easily used in the field he allocated items easily obtainable to test (scratch) a particular mineral that was to be tested.

Hardness of 2.5 Fingernail (found at end of finger !!)

Hardness of 3 Copper Coin (now NOT easily obtainable)

Hardness of 5.5 Well tempered knife blade (now it's not the thing to carry one!!)

Hardness of 6.5 Window Glass

The idea is to use these items to try and scratch a particular mineral and thus get its hardness within a given range. If you were 'at home' you could use a piece of one of the test minerals eg, if a mineral can be scratched with a bit of fluorite but cannot be scratched with a piece of calcite it would be within the range of 3 to 4 and so on and so on.

Out of interest the list below shows the minerals with an absolute hardness scale shown. Here you can see the corundum is only a quarter the hardness of diamond.

1 Talc
3 Gypsum
9 Calcite
21 Apatite
48 Fluorite
72 Feldspar
100 Quartz
200 Topaz
400 Corundum
1600 Diamond



Diamond, Corinna

Providing your unknown mineral is large enough, testing its hardness is probably the most reliable of all the test you can carry out to try and identify it. Note: don't put a nasty scratch across a nice display surface !!

Please if any beginners out there are finding this section useful and want to know something mineralogical or geological let me know and I will try to deal with it in this Minsoc section. **Remember NO INPUT no 'Mineral Matters'**

Contact at :- imagemaker@eftel.com.au

Next Time a 'very short and simple' discussion on Crystal Structure.

Lapidary items for sale or swap

- Tumbling grit, all grades including rice pellets and polish
- Lapidary grinding wheels, some new some used, most grades
- "Cab mate" fittings for grinding machine
- Barrel tumblers, two of and barrels
- "Tumble Vibe" electronic tumbler with three bowls
- Copper disc for polishing pad
- Various dop sticks, dop wax and templates for "cabs"
- Cutting material, slabs, rough material for cutting, all shapes, sizes and colours
- Quartz, wood, jasper etc to name a few.

I will sell for a reasonable price, as a job lot or piece by piece or I will swap for Australian mineral specimens.

Ring Martin Watkins on 0407 505 697 or 6249 2671 (Claremont)

10% of proceeds will go to Min Soc or a few specimens for the auction at the dinner.

JOINT SEMINAR 2010 –AND POST-SEMINAR FIELD TRIPS, PT 1

Steve Dobos

(with thanks to Steve and the Min Soc of Qld for permission)

The joint seminar was held in the meeting room of the Royal Society of South Australia, and was well attended – the meeting room was at capacity. The seminar itself, (*Australian Collectors and Collecting*), despite a theme that had the potential for repetition, was very successful; the presentations overall were excellent, quite eclectic, and did not overlap. Ron Young's presentation on the history of our Minerals Heritage Museum, with PowerPoint by Tony, was extremely well received. A number of Qld attendees pitched in to buy a Tasmanian capped quartz which was presented to Ron by Russell after Ron's presentation, as a small token of our appreciation for the countless hours, and passion, that Ron has devoted over the decades to MinSocQ and his beloved MHM. (Thanks Frank Cheshire for the quartz!) The Seminar dinner was a similar success: well catered, and very well attended. The venue was packed you had to go outside to change your mind. The specimen auction during the dinner, conducted by David Cowen in aid of the AJM, was spirited and a beryl of laughs.

The seminar organization was excellent, as was the scheduling of talks. To the organizing committee .. well done! The ladies of the catering persuasion are to be highly commended! A visit to the mineral displays of the SA Museum (which could hardly have been closer to the venue) was extremely rewarding; most were simply blown away – not a huge range, but superb specimens, brilliantly exhibited. The 'mineral market' on Sunday morning was quite crowded. Specimens ranged from the readily affordable to the extragalactic in price, with range and quality to match, and oodles of rubles changed hands. We may also assume that there were some extra-seminar deals made, as well as swapping and bartering. The overall atmosphere was very convivial.

The Monday field trip to Mt Malvern for copper micros was well attended and highly enjoyable. As an extra bonus, a koala was spotted at the site, which was gratifying. Half a squillion images were taken, but as usual, the koala was up there in the tree, the photographers were down there on the ground, and the koala was not sleeping upside down. As a consequence, many of these images are not particularly flattering - but who cares?

The multi-day Olary province field trippers met at Burra on the morning of Tuesday, full of good cheer, but slightly frozen. There were 8 from MinSocQ, plus our leader and organizer, Ashleigh Watt; we were happy to be joined by Bob and Barbara Kuchel (Vic), Allan Hart (WA) and Jocelyn Thornton (NZ). For the purposes of this field trip, we made Ashleigh, Barbara, Bob, Allan and Jocelyn honorary Queenslanders (along with the Hagelsteins and Sue Wearden, who are already halfway there). It was not that we had the numbers, it was just our friendly nature. Spirits, despite the cold, were high to begin with. Prior to departure, however, we received a shock; our own Doug Rumsey, the Lad from Longreach, had been hospitalized with a crook ticker the night before, and could not attend – not good. However, Doug's Adelaide hosts were looking after him, and he was in the best of hands at the hospital in Adelaide.

We motored in convoy to our first collecting site at the Paratoo Mine, for a range of Cu micros, including the elusive decrespignyite (which Donna took to calling *kryptonite* – this new nomenclature was adopted for the day, but sadly, without a visit by Superman). Paratoo was a good site, and for at least one of us, was the highlight of collecting. Late afternoon, we motored on to the Yunta pub, which Steve had booked out before any of the others had thought about it. So there was plenty of room for all, even for David and Sarah Tiller (assisting Ashleigh), who joined us there. We had a jolly good time: the rooms had recently been fitted with reverse-cycle air conditioners, and with additional internal heating, we duly enriched the Bank of Barry Bargwana. Mrs Barry (Marilyn) did us proud in the dinner and breakfast departments - our thanks ... and we will be back!

On Wednesday morning, on up the Barrier Highway towards Broken Hill, turning off to Mutooroo Station, to the Mutooroo Mine. More copper micros here, as well as other carbonates – the site of much digging, rooting and general poking around in the excavated materials. Here, we were quietly joined by a small Hobbit, quite round in appearance due to the cute garments it was wearing to stave off the cold winds. This Hobbit, once acclimatized to us rowdy rabble, was heard to emit a staggering range of vocalizations, but had little problem being understood.

Wednesday night in the shearers' quarters at Mutooroo Station was a night of mirth and jollity. It's amazing what a roaring log fire, together with food and drink, will do to the human spirit. Most succumbed to mild doses of *ilcoholic anebriation*, (it's a medical term ... obviously, there must have been something in the water) and all partook in protracted bouts of nattering and socializing. A bottle of Bundy was presented to Ashleigh as a token of our appreciation for organizing the SA field trips. Back to the Mutooroo Mine on Thursday morning, for more collecting. No hangovers of course – after all, we're Queenslanders! Late Thursday morning, we posed for group photos in the Japanese manner – the bucolic silence shattered by the sustained sounds of camera shutters. We bade farewell to Ashleigh, David and Sarah, as well as to Jocelyn, who had to return to Adelaide with the Tillers in time to catch a flight home to NZ. Despite a seemingly dodgy transmission, Ashleigh made it home OK. Thanks again Ashleigh, David and Sarah!

On to Cockburn, for lunch on the SA-NSW border; we took the pub by surprise, but they coped, and we were in a good mood (and out of the wind). On to the Broken Hill City Caravan Park, where those without caravans took cabins, and we met up with Judy and Tony Forsyth. That night, after more introductions, we shouted Trevor Dart dinner at the Democrat Club. Trevor is both president of the Broken Hill Mineral Club, and the editor of its newsletter; he had organized two collecting days for us Queenslanders (after blandishments from Steve), and took Friday off work to be with us -what a man!

Friday, Ross Clark (Trevor's former science teacher at BH High), joined Trevor. It was off to Limestone Station and the pelitic (aluminous) schists and gneisses, and the mineral goodies therein. First, gahnite, the zinc-rich spinel at the Hidden Treasure Mine; we all found small single octahedra, and most found good gahnite-in-matrix as well. Lunch at the Great Western Mine for more gahnite and other minerals, and then on to a local pegmatite area for garnet, tourmaline and feldspar. This was followed by a side trip to a small scheelite locality, for those with a penchant for fluorescent minerals. Great weather, fantastic day, finished off with a visit to admire Trevor's collection – drool perhaps would be a better word.

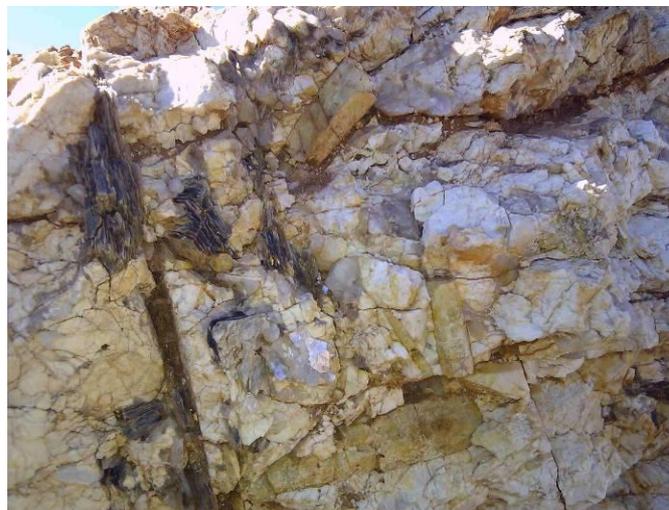
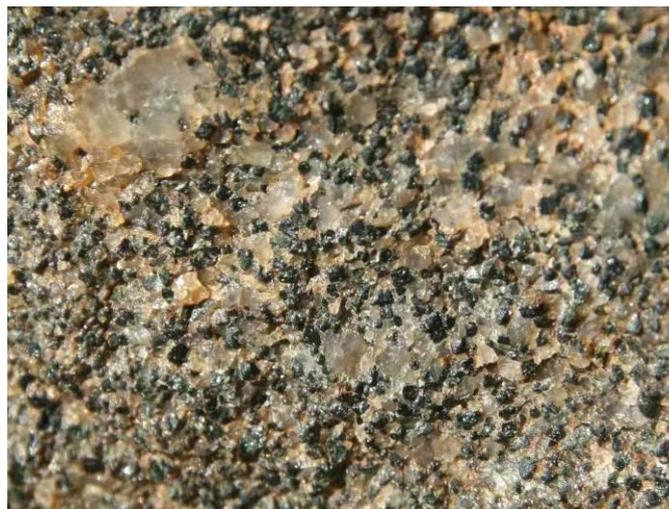
Saturday, to Thackaringa, for collecting on stockpiled Triple Chance material dumped along the side of the Triple Chance Road access road – most found at least little beryls, some in matrix. Over the railway line, to stop near Wilson's pegmatite, for more beryl; a few keen diggers were rewarded with beryl and beryl in matrix, but the inaccessible bigger ones remained for another day. Lunch next to the railway line, adjacent to an unnamed pegmatite that had been opened up. Again, the keen diggers were rewarded, and Trevor, (who has the eyes of an eagle, something the rest of us no longer have), found a tasty little yellow beryl (heliodor). Back across the Barrier Highway and on to the pelitic schists. First, garnets, of several habits – and no one came away without any – and then, staurolite, both weathered out, and in matrix. No shortage of staurolite, and some found cute little V-shaped twins. Another great day, and good weather. That evening we gathered in a Chinese restaurant, memorable not only for its food, but the atmosphere, and the repartee of our host, who whilst of Chinese ethnicity, was quite up-to-date with Aussie colloquialisms, as Lois will no doubt remember. Spirits were high, and bellies full.



L to R, prior to departure from the Mutooroo Mine: Sarah and David Tiller, Russell Kanowski, Phil and Sue Ericksson (Sue with striking similarity to The Hobbit), Jocelyn Thornton, Lois and Erroll Hagelstein, Donna Dobos, Barbara Kuchel (and partly obscured, Bob Kuchel), Ashleigh Watt in safety vest, Steve Dobos, and Sue Wearden. In background: Mean Black Hagelstein Machine. Photographer, and hence not in image, Allan Hart.

Sunday, we joined the Broken Hill Mineral Club for one of its scheduled field trips, to Purnamoota Station. First, the Black Prince Mine, where drums of material were available for Pb-Ag-Zn micros, as well as more micros and fine-grained 'tourmalinite' in the adjacent ridge for those prepared to fossick. Then off to a nearby unnamed locality, for tourmaline. These were weathered out, and some few were quite lustrous and, rarely, doubly terminated. With a little effort, most also found flat rocks with tourmaline-rich 'faces'. These should come up very well with a bit of iron-oxide removal (with oxalic acid, or sodium dithionite). That night, we held a BBQ at the caravan park, and invited Trevor to join us. We made a presentation of a small but good crocoite specimen to Trevor, which we purchased from Tony, as a further token of our appreciation for the great effort he had put in to organize the field trips, and much else for our benefit. Thanks again Trevor!

On Monday Tony and Judy departed for a protracted trip home, with un-needed excitement in Broken Hill (sheared tow linkage, which thankfully ended well). The rest of us stayed on in Broken Hill, to visit museums, various local collections to view and buy, and for general sightseeing. This too was a fantastic day, but we might leave Monday for another newsletter, as there is so much to cover and illustrate.



Clockwise from top left: The Hobbit, at Mutooroo Mine, not vocalizing here, but examining possible 'elevenses'; Sue Wearden & SD photo. Gahnite octahedra in matrix, individual crystals some 5mm across; Allan Hart photo. Beryl in Wilson's pegmatite, largest crystal approximately 15cm long; Tony Forsyth photo; Tourmaline in Matrix, Purnamoota Station; Judy Forsyth photo.

SEMINAR 2012

The Mineralogical Society of WA is planning to host the 2012 Joint Societies seminar in Perth, Western Australia. The seminar theme will be around Rare Earth Minerals (REM).

We are inviting your comments, feedback and expressions of interest.

Please contact: Sue Koepke minsocwa@hotmail.com

Secretary/Treasurer, Mineralogical Society of WA Inc.

BRIDGEWATER QUARRY FIELD TRIP



Saturday 28th August, 2010.

By Barry, Marnie, & Michael Pope.

Owing to Ralph's illness – a bad case of the flu, we ended up being trip leaders for the day. The entrance into the quarry off the highway has moved a few hundred metres north, (due to road works) so we waited a few minutes there for maybe late comers. Already at the meeting point further up the road were Elizabeth, Mathew & Charles Latham, Roz & Connor White, Dave Duncan, & Marty Watkins. Donning all our necessary 'safety gear' we checked in and passed the weigh-bridge operator, to be escorted to the 'pit area' by a front end loader.

During our nearly 3 hours of searching for that elusive special mineral specimen, many rocks – mainly basalt were hit and rendered to a pulp by a large variety of different sizes and types of hammers and block busters.

Specimens found were calcite balls in either singles, clusters or cavity lined vughs, and aragonite sprays in many sizes, shapes and qualities. Also a few pieces of a very hard variety of nearly black chalcedony were found near the base of the face, suggesting that they had come from the next bench level up. They have polished up nicely.



The mine supervisor paid us a visit near midday while we were having a 'cuppa', and chatted for a while with us while we packed up. Once again some nice specimens were found and MST is very grateful to the company for allowing field trips into this working mine.

Photos taken by Michael from this trip and March 2009 can be seen here:

Photos from when we visited in March 2009

<http://home-and-garden.webshots.com/album/578380097SgOGMv>

Photos from when we visited in August 2010

<http://home-and-garden.webshots.com/album/578582066WrVkkKC>



Barite



Barite on Calcite

THE ZEEHAN GEM AND MINERAL FAIR

5 - 7th November, 2010

This annual event continues to grow, and attracted over 1800 people. There were over 40 stalls of Gems, Jewellery, Minerals, Crystals, Opals, Beads, Fossils and more, in the Basketball Stadium at the Zeehan Primary School, (on Belstead St.).

Local small miners and collectors had many crystals and minerals direct from the local mines and prospecting sites around Zeehan, including, Crocoite, Stichtite and Serpentine carvings. Some of the most interesting specimens were some good West Comet crocoites and cerussite, Renison chalcopyrites and fluorites; barytocalcite and witherite from Rosebery (see p. 3), and some small osmiridium nuggets from Adamsfield.

The specimen competitions exhibited some fabulous specimens as usual, especially the Tasmanian competition.

The fireworks were great, nearly 30 minutes worth!

This annual event will always be on the 1st weekend after the Melbourne Cup.



For more information on next November's fair, contact Kim Dunstan (0364716553) or Joan Dunstan. (0364716479). Email:

kimdunstan@activ8.net.au