



THE MINERALOGICAL SOCIETY OF NEW SOUTH WALES INC.

C/o School of Natural Science
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NEWSLETTER

APRIL 2009

The April Meeting will be held on Friday the 3rd of April at 7.30 p.m. in the LZG14 lecture theatre on the ground floor of Building LZ in the Science campus of the University of Western Sydney on the corner of Victoria Road and James Ruse Drive in North Parramatta.

There will be a description of the **Mineralogical Society Website** by Graham and Toby Ogle

followed by a lecture to be given by John Rankin on : -

‘Early Collectors - George Smith’.

FORTHCOMING MEETINGS

Subject to circumstances some changes to the following schedule of program subjects and speakers may be made in due course.

May 1st: Members Mini Auction.

June 12th, (Second Friday): Minitalk by Jim Sharpe on ‘Malachite, Azurite and Pseudomorphs’
Followed by lectures on ‘Gold’ by Paul Meszaros or on the ‘Burra Mine’ by David Colchester.

July 3rd: Talk by Bruce Myles on ‘Zircons from Malawi’ and Lectures on the ‘Burra Mine’ by David Colchester or on ‘Gold’ by Paul Meszaros.

August 7th: Society A.G.M. and the Betty Mayne Memorial Lecture to be given by Peter Williams on ‘The Sunny Corner Silver Mines’.

September 4th: Lecture on ‘The History of Copper Mining in NSW’ by Dereck Dolstra.

October 9th, (Second Friday): Lecture on the ‘Minerals of Mt Vesuvius’ by Graham Ogle.

The MAY MEETING MEMBERS MINI AUCTION

Members who intend to enter specimens for sale in the May Mini-Auction are advised to send their list of minerals for auction to Jim Sharpe by the 18th of April or alternatively bring lists along to the April meeting. This is so that a catalogue can be prepared and distributed in time for the auction. Lists of minerals should provide the seller's name, and details of the specimen/s, mineral name and locality etc.

Details to Jim Sharpe. E-mail: sharpemin@dodo.com.au , phone (02) 9871 2502 or post to 190 Ray Rd Epping 2121, - **not later than 18th April.**

Oberon field trip report Saturday 14th March 2009

On Saturday 14th March the Society undertook a field trip to the Blue Hill quarry south of Oberon. The initial plan to first visit the Hargraves basalt quarry had to be cancelled because of quarry operational reasons. So it was straight on to the Blue Hill quarry (not quite so straight for those who got lost in the early morning mist).

The mist cleared revealing a beautiful day for collecting and in all 26 members and visitors turned up. As predicted it was hard work and pickings were moderate with a few good smokey quartz crystals found, including a small, doubly terminated beauty. Whilst some of the trip attendees had traveled from Sydney on Friday and stayed overnight in Oberon there were also a number of day trippers who turned up during the day with a total of over two dozen people working in the quarry at various times throughout Saturday.

The day ended with a barbeque dinner at the Oberon dam and a later gathering for drinks and chocolate. In all, not a very productive trip for specimens but a very pleasant and sociable weekend away.

John Chapman
March 2009

2009 SOCIETY MEMBERSHIP FEES

There are still a number of 2008 members who have not renewed their subscriptions for 2009. Fees were due from January 1st 2009 and members are urged to attend to their financial status promptly. The Committee will have to start sending reminders to non-financial 2008 members although it would be much easier if members checked their financial status themselves and paid subs accordingly.

Any members unsure of their financial status should check with the Treasurer, Jim Sharpe.

WITH REGRET

It is with regret that the Committee was informed that Society member Barry Salkilld had passed away last month. R.I.P. Barry.

THE SOCIETY COMMITTEE

PRESIDENT:	Arthur Roffey	Tel: (02) 4572 5812
VICE-PRESIDENT:	Gary Sutherland	Tel: (02) 9871 1379
SECRETARY:	George Laking	Tel: (02) 9636 7145
	E-mail: bglaking@tech2u.com.au	
TREASURER:	Jim Sharpe	Tel: (02) 9871 2502
COMMITTEE MEMBERS:	John Chapman	Tel (02) 9808 3481
	E-mail: chapmanjr@optusnet.com.au	
	David Colchester	Tel: (02) 9449 3862
	Dieter Mylius	Tel: (02) 9477 1060
	Graham Ogle	Tel: (02) 9876 5224
	Peter Williams	Tel: (02) 9685 9914

WELCOME

Welcome to new member Hadley Wood of Thornleigh

MARCH MEETING

A the commencement of the Meeting the Society President, Arthur Roffey, reminded members to sign the **attendance book** as they came in. The book was a record of their attendance and if the member was one of those who had paid for Personal Accident Insurance and suffered an accident at or on the way to or from a Meeting leading to an insurance claim, then the member might need to refer to the attendance book to verify that they had attended.

The President further announced that at the last Committee meeting of the Society it had been proposed and accepted that the Society should donate \$500 to the **Victorian Bush Fire Appeal** through the Red Cross and that the President was notifying the members that this had been done.

Jim Sharpe reminded members about the forthcoming **May Mini-Auction** for which he had been notified already of a number of specimens for sale by members but needed more to fill the target sale number of 70-80 specimens. In particular he hoped to be offered for sale a few items from a wider number of members thereby providing a wider range of specimen types. Members with material that they may wish to sell were urged to contact Jim Sharpe at his home address or by telephone with the specimen details and before 18th April so that he would be able to compile a catalogue of the sale items in time for the Auction.

Jim Sharpe also took the opportunity to thank the members who had donated specimens for the February **Kids with Cancer Sale**. All the specimens had been sold and this had raised **\$808** and Jim further thanked all the members who had bought the specimens and contributed to the charity.

John Chapman referred to the forthcoming **Field Trip to the Oberon area**. Starting at 8.00 a.m. on Saturday 14th March it was intended to visit the Hargraves Quarry near Oberon, the geology and mineralogy of which has been described in an article in the A.J.M. Volume 8, Number 1, June 2002 by Ian Graham, David Colchester and Ross Pogson. Minerals found there had included apophyllite, phillipsite, aragonite and small crystals of gem-quality olivine. The party would only be able to work at the Hargraves Quarry for about three hours and would then move on to the Blue Hills Quarry, also known as Shooters Hill quarry, for the rest of the day and probably return to the same site on Sunday morning. There had been recent operations at the quarry

which had exposed some specimen-bearing rock and there had been subsequent finds of quartz crystals. Members wishing to attend the Trip who had not already notified John Chapman were urged to speak to him this evening and register their interest.

Peter Beckwith was asked to deliver the first part of the report on the :-

2009 Tucson Mineral Show.

Peter Beckwith referred to the minerals on sale at Tucson this year country by country. Looking at material from Europe the speaker had found little new that had come out this year although there were a few collections, mostly minor with one major and showing a number of old specimens from classic locations. Moving on to look at material from the Middle East and subcontinent it was noted that the Pakistanis and Afghanistans were showing a typical array of aquamarines, spectacular pieces but at spectacular prices. One new find from this region was shown to the speaker by an Australian contact at the Show of uvarovite crystals which were said to come from 'the northern border areas' of Pakistan. This was apparently a new location and has produced a number of quite large 3-4 cm non-gemmy crystals. India has continued to produce zeolites in great quantity but of unexciting quality, especially all the apophyllites but the speaker found an Indian dealer with nicer material from a source said to be Dahnori in Aurangabad although in later checking the location through the Google Internet search system the places do not match.

There was not very much new material at the Show from Chinese sources although one reason for this that Peter Beckwith was told was that Chinese miners and mining companies were running out of dynamite and some operations were being wound back. In spite of this the speaker had managed to find some interesting fluorite specimens that appeared to be full 'floaters', bearing no contact growth point and had bought some of these. There were also a few specimens of whitish-green barite crystals from a new location in the Edong mining district. An interesting story had emerged from Vietnam where a farmer had been ploughing and found a large rock which he dug out and in contacting the right people was visited by a buyer accompanied by a number of security guards and several suitcases of money to purchase the 'rock' which had turned out to be a 50lb spinel crystal of predominately cutting grade. One of the stones cut from the 'rock' was later sold for \$4,000,000 !.

There were a few new finds from South America, of very heavily etched white goshenite beryl specimens and some small intense pink topaz crystals on quartz which due to their scarcity are very expensive. A few Mexican mines have been worked for specimens producing a range of adamites, wulfenites and mimetites and there has been a recent find of cuprian adamites, which the speaker managed to acquire a few of. A mining area in the north of Mexico just south-east of Bisbee has produced a number of fine specimens of malachite pseudomorphs after azurite, quite brilliant and affordable.

The recession seems to have brought out a few older specimens and collections from the U.S. and there were a number of displays of older material. An interesting conversation that Peter Beckwith had with some of the characters at Tucson was with two fellows from New Mexico named Brian Huntsman and his mate Massey, - a large man apparently well named after the tractors. The two men had made a find in the Bingham area at a site called the Fish Stick Pocket of blue on purple fluorites that Peter Beckwith had also bought a number of.

Finally the speaker acknowledged that he would not have managed to get around to all the dealers in Tucson and may not have found out about all that may have been new but felt that he had covered this year's Show reasonably well. One point that he noted was that there was quite a lot of Australian material for sale including an amount of crocoite and a number of Australian opal dealers and American dealers selling Australian opal but since the prices on specimens were all in U.S. dollars the Australian visitor would advisedly not buy Australian specimens there.

The second report of the evening was given by Penny Williamson on the **Tucson Main Show**.

The report commenced with aerial views of the parts of western America which the speaker had passed over on her journey to Tucson. The city was shown to be situated in a wide, flat, valley fairly well surrounded by mountains and hills on most sides. Penny Williamson noted that the hotel where she was staying in Tucson charged a minimum of US\$80 per night plus 14% tax over the Show period but annoyingly by the end of the Show the tariffs were dropping to \$40 and some places may have been even cheaper.

The speaker proceeded to show a large number of slides of displays in the main Show and views of aspects of Show activities. Penny Williamson also managed to take a few trips around the city and out into the immediate countryside. One site visited outside the city was a disused airplane park and air museum where some 4,750 planes, mostly military including fighter jets and helicopters but also a number of civilian planes are 'mothballed' by being covered in insulating sheet but otherwise parked in the open. Finally there were a few views of the Show exhibitors packing up to leave, an obviously oft-repeated job which most of them were apparently very adept at.

Peter Williams was asked to introduce the third speaker for the evening, Arnold van der Heyden whom he had first met in the late 1980s when Arnold was the geologist at the MMM mine at Broken Hill. At that time the company had acquired the leases originally owned by Broken Hill South Ltd and had commenced to open cut the Kintore and Block 14 sections and Peter Williams had wanted to conduct dating studies on specimens from these workings. In the course of the visit it was established that Arnold was clearly a keen mineral collector and connoisseur of minerals and at the end of his time at MMM had arranged an on-site auction sale of specimens he had collected over the period. The sale was attended by Peter Williams and Jim Sharpe with most of the specimens being bought for 'ridiculous prices' by the likes of Milton Lavers and other notable collectors.

Since his time at Broken Hill Arnold van der Heyden had moved around the world working for a number of companies and was currently working for a consulting geological company based in Eastwood which provides assessments of mineral resources. Arnold has been very helpful over the years providing research and study material to Peter Williams for his students and has maintained a long professional collaboration with Bill Birch at the Museum of Victoria especially on the minerals of Broken Hill and which has culminated in the publication of a series of excellent articles. Just latterly Arnold has been spending some time in his professional capacity examining the Sepon gold mine in Laos which he was to speak to the members about this evening.

'The Sepon Gold Mine, Laos'

Arnold Van der Heyden

The speaker initially indicated by the means of maps the country of Laos, the general geography and topography noting the Mekong River which is the main river, and highway, for several countries through which it passes. Laos is mostly hills and mountains with much of the agriculture and population of some six million situated along or near to the Mekong. Arable land is under 4% of the total area. The country had been made part of French Indochina during the 19th century and the population still speaks some French although mainly Lao. It is a very poor country with a GDP per capita of about US\$1,800 and poor literacy. The climate is tropical and receives monsoon rains through May and November which with poor roads means that vehicles and people may get stranded for some days at a time with the only feasible transport being by boat or by air.

Laos has few natural resources with timber being the main one. About half the country's timber has already been harvested by Chinese and Thai companies with the remainder likely to be cut down within the next ten to twenty years. There are some gemstones deposits of sapphires and the speaker had seen a few examples of local zircons and garnets.

A number of views were shown of the towns and countryside. Since most of the population is Buddhist, pagodas, temples and shrines are a common feature in the towns and villages. The capital city is Vientiane and

according to the speaker is not very large, if one walks about five blocks in any direction the one finds oneself back in the countryside. As a hang-over from the colonial days French architecture and culture including cuisine are still to be found in the capital and Arnold van der Heyden found a few pleasant French restaurants there during his visits. Otherwise the city had an obvious Asian appearance with as well as the people the roads were trafficked by scooter and motor-cycle 'jeeps' and poles and buildings featured 'crazy spaghetti' power and telephone lines festooning them.

The history of Laos is one of the rise and fall of various kingdoms and dynasties with the acquisition and loss of various amounts of territory and the imposition of a French colonial administration in the 19th century. After the French officials left in the 1960s a communist 'Pathet Lao' government and system was established and is still in place although in 1991 the government considerably moderated its previous hard-line version of socialism and whilst the country is still a one-party state it is more market-oriented, open and reasonably free. The country also suffered considerably during the Vietnam war being bombed heavily by the Americans trying to interdict the 'Ho Chi Minh trail' and aerial views of the countryside show much of it extensively pock-marked with old bomb craters which in the rainy season were all full of water.

A continuing on-going safety project for the Lao government, local population and any companies working in parts of the country is to detect, neutralize and in some cases re-cycle any old unexploded ordinance, mostly dropped by the Americans over thirty years ago but occasionally presumably by Viet Cong porters and which are still dangerous. Views were shown of some of this work, pathways through known dangerous areas being marked with sticks, and some of the objects recovered, mostly small mines and shells although farmers sometimes locate 1,500lb bombs !. If the ordinance cannot be dismantled safely it is piled in a pit and set alight to explode away from any people. Some of the dismantled or fired ordinance is recycled and the speaker showed a picture of some American artillery cases being used as stilts holding up a small hut and others were seen being used as plant pots. The bombing period has supposedly preserved some of the largest trees in parts of Laos from being logged since they are so full of shrapnel that they are not suitable for cutting or use as timber.

The Sepon Project is in the far south-east of the country. Some Soviet and Lao government prospecting was performed in the area in the early 1980s with some alluvial gold being found in places adjacent to but not actually in the valley where the Sepon mine is situated. In 1990 Hammon Resources with Lao associates made a more determined effort to find the source of the alluvials and found indications of the presence of what came to be called the Discovery Outcrop, the deposit actually being discovered by an Australian worker, Simon Davies. The C.R.A. Company, (now Rio Tinto), became interested but after working in the area for several years in the 1990s decided that whilst there was a certain amount of mineralisation it was not big enough to justify them staying. In 2000 a company called Oxiana moved in and conducted a more extensive exploration and drilling program and then more feasibility and resource studies than had been previously done with Arnold van der Heyden's company being involved in estimating the gold resources in a number of deposits in the area.

With the promising feasibility studies the company went into construction and production so that by the end of 2002 the first bars of gold were being cast. There is also copper in the deposits which was being produced by 2005. A number of views were showed of the mine workings which comprised several pits, of the original Discovery Outcrop and of some of the processing plants including the gold smelting and other surface constructions. A brief overview of the geology of the Sepon area of Laos was provided, the deposits sit within the Indochina block of Devonian to Carboniferous rocks with sediments and some volcanics, the gold mineralisation occurring in calcareous mudstones. A number of images of specimens were also shown, some of pieces of rock showing gold mineralisation but more of the copper was shown including specimens of malachite, azurite and cuprite.

So far only the oxidised party of the gold mineralisation has been exploited at Sepon. Grades drop off with depth and with some carbon and carbonate occurring in the ore at depth this would cause problems with the cyanide gold extraction process. The mine is currently processing about two million tonnes per year of oxide ore which at a grade of about two grams per tonne of ore produces about 120,000 ounces of gold per year. Copper ore production is about 1.3 million tonnes per year which with a grade of about 5% gives after processing by acid extraction and then electrolytic refining about 60,000 tonnes of copper metal per year.

Arnold Van der Heyden concluded his talk by inviting members to examine a few specimens of minerals from the Sepon Project that he had brought in to display and also answered a number of questions.

GEMBOREE 2009

Over EASTER 2009: Friday to Monday, the 10th to 13th of April

The 45th Gemboree this year is being held in the Wimmera Field Day Site, Longerenong Road, Doon, 12km from Horsham, Victoria, hosted this year by the Horsham & District Lapidary Club.

The Site includes the large Moore Pavilion which will house most of the dealers and displays and there is ample room over the Site for a large number of tailgaters and campers.

Inquiries can be made to the Gemboree Committee at 22 Hutchesson Street, Horsham, VIC 3400. Accommodation inquiries by internet on Google at totaltravel.com/theWimmera, or to tourism@hrcc.vic.gov.au, or to the Horsham Visitor Centre, www.horshamvic.com.au or by freecall to 1800 633 218.

19th Annual LISMORE GEMFEST

Presented by the **Lismore Lapidary Club** over Saturday and Sunday the 16th and 17th of May 2009 at the Lismore Showground, Lismore. The Club display will again follow the theme of the '**Rainbow Region**'. The Show will feature handcrafted jewellery, Gemstones and Minerals, Rare Fossils and Meteorites, Metaphysical and Healing Crystals, Stalls and displays undercover, Demonstrations of Lapidary Crafts, free parking, refreshments available, Show entry fees \$4.

The following information on the Gemfest has been provided by the organisers.

'GEMFEST is one of the largest Lapidary, Mineral, Jewelry and Fossil shows in Australia. Last year there were 27 dealers in the main pavilion and more than 100 tailgaters in the show grounds. The Show offers fantastic opportunities to select that special piece of jewellery, beautiful crystals, opals, beads, mineral specimens, rare fossils and lapidary related equipment and material. It is always a fun weekend to join in the many club activities and demonstrations by club members from Lismore and neighbouring clubs. These include sphere making, PMC demonstrations, opal carving, jewellery making, silversmithing, faceting and wire wrapping.

There are so many beautiful items on sale with so many choices – a special mineral specimen, jewellery ready to wear or select, such as a beautiful exotic, cut or faceted gemstone and then take it to a jeweller in the main pavilion, select a gold or silver setting and have it set on the day.

There will be a variety of top line commercial dealers (housed in the main pavilion) as well over 100 tailgaters (hobbyists and stallholders who trade on the grounds in the open). All of these participants aim their displays at the jewellery, mineral and lapidary field.'

Dealer and general inquiries may be made to Bruce Copper at : -

The Lismore Lapidary Club, P.O.Box 743, Lismore, N.S.W. 2480,

by e-mail to bcopper@bluemaxx.com.au

or general information on <http://www.lismore.nsw.gov.au>.

Inquiries about tailgating may be made to Jan Thompson at the same address or by telephone to (02) 6621 4703.

Information leaflets and tailgating registration forms for the Gemfest have been provided by the organisers. Copies of these will be at the next (N.S.W.) Society meeting or available from the Secretary, George Laking.

32ND JOINT MINERALOGICAL SOCIETIES OF AUSTRALASIA SEMINAR JUNE 6th to 8th 2009

The 32nd Seminar is being held this year over the usual period of the Queen's Birthday long weekend in June, from Saturday 6th to Monday 8th of June. Associated activities will be held on Friday 5th and Tuesday the 9th of June. The Seminar will be hosted by the Queensland Mineralogical Society on the theme **Minerals, Mines & Collectors** and held in the Theatre of the Queensland Museum, Southbank, Brisbane. Seminar presentations will be held through Saturday and Sunday with a Swap and Sell held on the Monday morning. The Seminar dinner will be held on Saturday night at a venue within easy walking distance of the Museum. Registration will be \$60 per person, \$30 for students and the Seminar dinner \$35 per person. Field trips have been organised for Friday the 5th, Monday the 8th and Tuesday the 9th.

The Queensland Mineralogical Society has distributed parcels of Seminar information and registration forms to all state societies. These will be mailed to (N.S.W.) Society members receiving hard-copy Newsletters or can be accessed by Internet-enabled members from the Queensland Mineralogical Society Website, - '*The Australian Mineral Collector*' or through the Website www.mineral.org.au. The forms will also be available at the Society General Meetings or by mail from the Secretary, George Laking, however members wishing to attend this year's Seminar are advised that registration forms **must be received by The Queensland Mineralogical Society by April 30th next.**

The following details about the Seminar have been reproduced from the Queensland Mineralogical Society information leaflet.

Seminar Registration: Registration forms are being distributed. The cost is \$60 for delegates or \$30 for students and the Seminar dinner is \$35. Delegates wishing to sell or swap at the mineral bazaar on Monday 8th June can indicate this on the registration form and also whether they wish to participate in any of the other field trip and Museum visit activities. The registration forms with fees must be received by The Queensland Mineralogical Society, P.O.Box 15020, City East, Brisbane, QLD 4002, by April 30th next.

The Seminar venue: The Queensland Museum theatre, Southbank, is situated on main transport corridors and is easily accessible by bus or train from the CBD or an easy 10 minute walk from the CBD across Victoria Bridge. Also within the precinct is the Queensland Art Gallery, State Library and the newly opened Museum of Modern Art. Adjoining the Museum is Southbank itself, with over 80 hectares of gardens, walking paths, restaurants and a large swimming lagoon. Entry to all areas is free.

The Seminar dinner: The Queensland Mineralogical Society has booked a private function room at the Ship Inn, an historic hotel dating from the 1880's. Located within Southbank, it is about a 10-minute walk from the museum through the Southbank gardens to the Ship Inn, or one stop on the rail line which is about 100 metres away. The Ship Inn looks over the Queensland Maritime Museum which houses a number of displays, as well as an historic dry dock holding the decommissioned frigate HMAS Diamantina.

The Minerals Heritage Museum: For those delegates in Brisbane before or after the seminar, a visit to the Minerals Heritage Museum is worthwhile. Located in the foyer of 61 Mary Street in the Brisbane CBD, it has four large cabinets of mineral specimens on display. These include many high quality Australian pieces. The display can only be accessed Monday to Friday between 8:30 am and 5:00 pm (not on public holidays). A selection of MHM specimens will be on display at the seminar venue.

Field Trips: There will be field trips on Friday June 5th to the Julius Kruttschnitt Mineral Research Centre in Indooroopilly, home of the University of Queensland Experimental Mine. On Monday June 8th there will be a trip to Laidley, about 80kms west of Brisbane for creek fossicking and on Tuesday June 9th to Toowoomba to fossick on dumps from a road tunnel.

Inquiries may be made to: - The Queensland Mineralogical Society Inc.

P.O.Box 15020

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2009 FESTIVAL OF TREASURES

Presented by the Australian Fossickers Association over the Queen's Birthday Long Weekend.

Friday JUNE 5th to Monday JUNE 8th 2009

9.00 a.m. to 5.00 p.m. Friday, Saturday & Sunday, 9.00 a.m. to 3.00 p.m. on Monday.

The **Festival of Treasures** Show has been held for a number of years in the Gosford Showgrounds but is now to be held on a site on the corner of Hue Hue Road and Wyee Road, Wyee, N.S.W. The site is central to the Wyee area and a short way from Wyee rail station but motorists please note, whilst the Sydney to Newcastle freeway is a short distance from the Show site there is not an exit there and cars would need to turn off the freeway further south at the Tuggerah or Toukley turn-offs.

Featuring: Meteorite display by G.E.O. Discoveries, Central Coast Lapidary Club display, gemstone, jewellery, fossil, mineral and other collectable sales and dealers, 'Tailgate Alley' sales and small dealers. Free car parking, refreshments, entry \$3.

Inquiries to the Australian Fossickers Association,
P.O.Box 9095, Wyee, N.S.W. 2259
or telephone 02 4399 2457.

BLAXLAND GEM & MINERAL CLUB GEM SHOW

Over Saturday and Sunday August 15th and 16th 2009. 8 am to 4 pm Daily

In the Glenbrook Community Hall, Great Western Highway, Glenbrook, NSW
(Next to Glenbrook Theatre), Just west of Information Centre.

<http://www.freewebs.com/blaxlandgemmineralclub/BGMCshow.htm>

Displays of lapidary work and gem, mineral and crystal sales.
Refreshments available. Entry: Adults: \$3.00, Children \$1.00.
