



# LAPIS

[www.ndlapidary.org.au](http://www.ndlapidary.org.au)

"SHARE YOUR KNOWLEDGE"

VOLUME FORTY SEVEN- Number Five FEBRUARY 2011

## **CLUB NEWS**

The next General meeting will be on **Tuesday 8th February, 7.30pm, at the Clubrooms**. All members welcome. There will be a sale of choice slabbed materials at the meeting. (see item further on)

## **Guest speaker**

will be Colin Hazell, who will speak on some of the Gardens of China, with a display of images from his trip.

## **FROM THE PRESIDENT**

Happy New Year 2011 - A year full of promise! Your Committee has made plans to keep you busy. Classes have started back. Ed has trips for you. The Gemboree at Easter is a "must go". It's urgent to book your accommodation. Competition entries should be sent this week. Note details of the Rock Sale after the General meeting. We have an "Open Day" in association with Hornsby Shire Council during Seniors Week to allow the community to visit and observe. Look through Lapis for the dates of your favourite things and transfer them to your diary.

On a sad note, we received a resignation from Committee from Belinda Barbera, Social Convenor. Due to the pressure of work Belinda is unable to continue in the position. Thank you Belinda for having a go. Your input has been valued and much appreciated.

We seek another member to take up the important role of Social Convenor on Committee. The position requires someone to liaise and organize occasion social functions during the year. Be ready to put your hand up at the next General Meeting.

Thank you to those who came to the Christmas Party, organized the event and brought their children. Santa had a beaming throng gathered

round as he delved into his large sack - a gift for each one. Thank you Santa.

Diane Neasmith.

## **New Members**

We would like to welcome our newest members – Rod McCullum and Kim Jessop, of St Leonards. We wish them much enjoyment cutting gemstones and enjoying the other aspects of our Club.

## **Re one of our Older members**

I have been informed that one of our perennial members, a stalwart of the NDLC, Harry Lovell, has just had his 90<sup>th</sup> birthday.

I would like to convey to Harry the very best wishes of all his friends and colleagues from NDLC, and many more years of enjoyment of his membership. Ed.

## **Seniors Week Open Day. Wednesday 2 March 10am -2pm. at the Club Room.**

In response to Hornsby Shire Council request for activities for Seniors Week the committee agreed to sponsor an "Open Day" at the Club Room.

Local Seniors are invited to our "Open Day for Seniors Week" to encourage local people to know what we do in our Club. Members will demonstrate the work done within the club and chat over tea and coffee. This is an opportunity to bring your friends along to see what we do. Your support will help make this a successful event.

## **GEMKHANA 2011**

The competition schedule for the 2011 GEMKHANA has been completed and is available on the G & L Council web site. A suitable venue for the judging days is being investigated and will be reported when finalized.

## **GEMBOREE 2011**

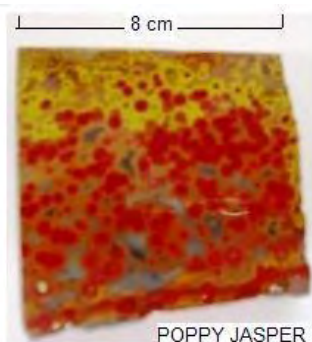
If you intend to attend the GEMBOREE at Bathurst over Easter 2011, 22, 23, 24, 25 April

2011 as either a club member or tailgater, then consider using the forms attached to end of Lapis to register ASAP. If you intend to camp onsite, then early registration will see you allocated a place with other club members.

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### **SLAB SALE at the General Meeting**

Magnificent poppy jasper slabs have freshly come off the slabbing saw. No pre-sale has taken place, All the slabs will be made available for sale to members during the February general meeting. Also available for sale will be a number of other slabs including obsidian, clear chalcedony, etc. Stock up for the new term."



POPPY JASPER



OBSIDIAN (BACKLIT)

### **Wish List**

Committee has reviewed member requests for cutting materials for cabbing and other uses. A decision has been made to trial a "wish list" where members can list their wants for cutting materials. A list will shortly appear in the club „shop' area, on a trial basis. Not all needs will be able to be met.

Be mindful that filling requests will place an extra burden on the voluntary efforts of those stocking the shop.

Members should not see the club as the sole supplier of all their cutting material needs, but should continue to source their own cutting materials from collecting, swapping or purchasing from shows and retail outlets.

Normal collection and purchasing will greatly increase your knowledge of materials available, assessment and values of materials worked by lapidaries.

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### **VINYL POLISHING LAPS**

In the cutting room at our Club we have three vinyl polishing laps. They are usually used with a Cerium Oxide / water polish mix and can be very effective giving a good polish quickly. (Provided you have spent sufficient time on the sanding process and have a good pre-polish.)

One lap is a convex domed shape with a heavy duty but soft rubber backing.

It is covered with a soft upholstery type vinyl which we buy from Spotlight.

The other two are flat, one with soft rubber backing and the other with the vinyl glued directly to the hard plastic backing plate. The vinyl is a cheap flooring type from Bunnings.

The two with the soft backing are used when polishing the domed side of a cabochon and the hard flat one is ideal for the flat back and flat back bevel of a cab.

All these laps perform best when they are new, but, as they wear their effectiveness decreases rapidly. A WORN VINYL LAP WILL NOT POLISH, and, if they have a tear or hole in the vinyl then they may cause damage to the stone or to even you.

If they are worn they must be replaced. There is normally a spare domed lap and vinyl discs on the top shelf of the cupboard where we keep polish and grit bottles. Also a tin of disc cement.

Unscrew the domed unit and replace with the new one. Leave the worn lap on the table so the good fairies will see it and repair it.

Peel off the worn flat disc, apply a thin coat of disc cement to the back of the vinyl disc and then stick it on.

One disadvantage of vinyl laps is that the polish mix does not soak in and impregnate the lap as it does on our canvas and leather. This means more frequent sprays of polish are needed, or as some do, make up a cerium paste and apply to the lap with a clean finger.

Take care with contamination if you do this. Happy polishing.

jw

### **Field Trip Officers Report**

Appended to the rear of Lapis is a list of proposed venues for field trips, citing journey distances, times, accommodation options, necessary equipment and materials sought and purposes of outings.

Not all trips proposed will permit collecting, and some venues will require specific permits as listed to allow collection.

The club is attempting to gain group permits at substantially reduced cost to those areas requiring permits.

Where necessary, permits allow management of safety concerns and resource management by specific authorities responsible. Collection in such sites without permit can attract large financial penalties.

Some sites have restricted accommodation, such as Yerranderie. Appended is a Yerranderie booking form, listing accommodation charges and types, that needs to be returned by mid March if you are thinking of doing this trip.

Contact Ed Zbic if you intend to do this trip, on (02) 9638 6586 or e-mail to [etzed@optusnet.com.au](mailto:etzed@optusnet.com.au). (see information below)

**Yerranderie June Long Weekend**, members attending and wishing to bunked in the Post office, 6 Rooms and 31 beds, are requested to register before 15<sup>th</sup> March with 50% deposit. Rooms may be shared so pick your friends and state it on your registration.

**Ed requests some help with field trips.**

Due to family commitments, daughter getting married and care for parents, I am looking for a second –in-charge on each of the Field trips conducted in 2011. You will get a background of the area being visited, may help to coordinate any accommodation on the day or weekend, take the field trip register and first aid kit if Ed can't make it.

If you want to volunteer to help in field trips, call Ed on (02) 9638 6586 or e-mail to [etzed@optusnet.com.au](mailto:etzed@optusnet.com.au).

**Mineral Group** meets on each Thursday evening at 7:30 pm., where the theme is identifying and sorting minerals. 2011 hopes to have a Special Interest Group (SIG) that wants to go weekend fossicking to remote areas, where the only facility may be a pit toilet if lucky.

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**FOSSICKING IN NSW**

No permit or licence is required for fossicking, but landowners permission is always required, and so is the leaseholders permission unless the area is in a fossicking district.

NSW has “fossicking districts” where you can fossick providing you have first obtained permission from the land owners. Contact local

shire councils and tourist information offices. Fossicking Reserves are located at Ophir near Bathurst, Severn Nundle and Inverell, Cooma-Monaro, Young, Tumbarumba, Tallaganda, Ironbark Creek and Woodsreef (Barraba area – NW of Tamworth)

The \*Mining Act\* says

- (1) A person must not:
  - (a) fossick for minerals using explosives, power-operated equipment or any other equipment except hand-held implements, or
  - (b) in the course of fossicking for minerals:
    - (i) excavate or clear any land or waters, or
    - (ii) damage any bushrock or remove any bushrock from the site, or
  - (c) in the course of fossicking for minerals, remove more than:
    - (i) 25 kilograms of minerals (other than gold or gemstones), or
    - (ii) 50 grams of gold (except where found as nuggets of 10 grams or greater), or
    - (iii) 100 grams of gemstones, during any single period of 48 hours, or
  - (d) fail to replace (where practicable) any soil, rock or other material that the person has disturbed in the course of fossicking for minerals.

Maximum penalty: 50 penalty units.

(2) In this clause, \*/gemstone/\* means a Group 6 or Group 7 mineral. Which are Group 6: corundum, diamond, ruby, sapphire & Group: 7 opal.

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Editors note: the penalty points referred to above carry a dollar value of \$110 for each point as defined by the specific Act, hence fines could total \$5500 for each individual.

Garnet General Information	
<b>Category</b>	<a href="#">nesosilicates</a>
<b><a href="#">Chemical formula</a></b>	The general formula $X_3Y_2(SiO_4)_3$
Identification	
<b>Color</b>	virtually all colors
<b><a href="#">Crystal habit</a></b>	rhombic dodecahedra or cubic
<b><a href="#">Crystal system</a></b>	<a href="#">Cubic</a> rhombic dodecahedron, icositetrahedron
<b><a href="#">Cleavage</a></b>	Indistinct
<b><a href="#">Fracture</a></b>	conchoidal to uneven
<b><a href="#">Mohs scale hardness</a></b>	6.5 - 7.5
<b><a href="#">Luster</a></b>	vitreous to resinous
<b><a href="#">Streak</a></b>	White
<b><a href="#">Specific gravity</a></b>	3.1 - 4.3
<b>Polish luster</b>	vitreous to subadamantine <a href="#">[1]</a>
<b>Optical properties</b>	Single refractive, often anomalous double refractive <a href="#">[1]</a>
<b><a href="#">Refractive index</a></b>	1.72 - 1.94
<b><a href="#">Birefringence</a></b>	None

<b><a href="#">Pleochroism</a></b>	None
Major varieties	
<b>Pyrope</b>	$Mg_3Al_2Si_3O_{12}$
<b>Almandine</b>	$Fe_3Al_2Si_3O_{12}$
<b>Spessartine</b>	$Mn_3Al_2Si_3O_{12}$
<b>Andradite</b>	$Ca_3Fe_2Si_3O_{12}$
<b>Grossular</b>	$Ca_3Al_2Si_3O_{12}$
<b>Uvarovite</b>	$Ca_3Cr_2Si_3O_{12}$



The **garnet** (pronounced /'garnit/) group includes a group of minerals that have been used since the [Bronze Age](#) as [gemstones](#) and [abrasives](#). The name "garnet" may come from either the Middle English word *gernet* meaning 'dark red', or the [Latin](#) *granatus* ("[grain](#)"), possibly a reference to the *Punica granatum* ("[pomegranate](#)"), a plant with red seeds similar in shape, size, and color to some garnet

Six common species of garnet are recognized by their chemical composition. They are [pyrope](#), [almandine](#), [spessartine](#), [grossular](#) (varieties of which are [hessonite](#) or cinnamon-stone and [tsavorite](#)), [uvarovite](#) and [andradite](#). The garnets make up two [solid solution](#) series: 1. pyrope-

almandine-spessartite and 2. uvarovite-grossular-andradite.

Garnets species are found in many colors including red, orange, yellow, green, blue, purple, brown, black, pink and colorless. The rarest of these is the blue garnet, discovered in the late 1990s in Bekily, [Madagascar](#). It is also found in parts of the [United States](#), [Russia](#) and [Turkey](#). It changes color from blue-green in the daylight to purple in [incandescent](#) light, as a result of the relatively high amounts of [vanadium](#) (about 1 wt.% V<sub>2</sub>O<sub>3</sub>). Other varieties of color-changing garnets exist. In daylight, their color ranges from shades of green, beige, brown, gray, and blue, but in incandescent light, they appear a reddish or purplish/pink color. Because of their color changing quality, this kind of garnet is often mistaken for [Alexandrite](#).

Garnet species's light transmission properties can range from the gemstone-quality transparent specimens to the opaque varieties used for industrial purposes as abrasives. The mineral's [luster](#) is categorized as [vitreous](#) (glass-like) or resinous (amber-like).

Garnets are [nesosilicates](#) having the general formula X<sub>3</sub>Y<sub>2</sub>(SiO<sub>4</sub>)<sub>3</sub>. The X site is usually occupied by divalent cations (Ca<sup>2+</sup>, Mg<sup>2+</sup>, Fe<sup>2+</sup>) and the Y site by trivalent cations (Al<sup>3+</sup>, Fe<sup>3+</sup>, Cr<sup>3+</sup>) in an [octahedral/tetrahedral](#) framework with [SiO<sub>4</sub>]<sup>4-</sup> occupying the tetrahedra.<sup>[2]</sup> Garnets are most often found in the [dodecahedral crystal habit](#), but are also commonly found in the trapezohedron habit. (Note: the word "trapezohedron" as used here and in most mineral texts refers to the shape called a [Deltoidal icositetrahedron](#) in solid geometry.) They crystallize in the [cubic](#) system, having three axes that are all of equal length and perpendicular to each other. Garnets do not show [cleavage](#), so when they fracture under stress, sharp irregular pieces are formed.

### [\[edit\]](#) Hardness

Because the chemical composition of garnet varies, the atomic bonds in some species are stronger than in others. As a result, this mineral group shows a range of hardness on the [Mohs Scale](#) of about 6.5 to 7.5. The harder species, like almandine, are often used for abrasive purposes.

### [\[edit\]](#) Garnet group endmember species

#### [\[edit\]](#) Pyralspite garnets - Aluminium in Y site

- [Almandine](#): Fe<sub>3</sub>Al<sub>2</sub>(SiO<sub>4</sub>)<sub>3</sub>
- [Pyrope](#): Mg<sub>3</sub>Al<sub>2</sub>(SiO<sub>4</sub>)<sub>3</sub>
- [Spessartine](#): Mn<sub>3</sub>Al<sub>2</sub>(SiO<sub>4</sub>)<sub>3</sub>

[\[edi\]](#) Almandine, sometimes incorrectly called almandite, is the modern gem known as carbuncle (though originally almost any red gemstone was known by this name). The term "carbuncle" is derived from the [Latin](#) meaning "live coal" or burning charcoal. The name Almandine is a corruption of [Alabanda](#), a region in [Asia Minor](#) where these stones were cut in ancient times. Chemically, almandine is an iron-aluminium garnet with the formula Fe<sub>3</sub>Al<sub>2</sub>(SiO<sub>4</sub>)<sub>3</sub>; the deep red transparent stones are often called precious garnet and are used as gemstones (being the most common of the gem garnets). Almandine occurs in [metamorphic rocks](#) like [mica schists](#), associated with minerals such as [staurolite](#), [kyanite](#), [andalusite](#), and others. Almandine has nicknames of Oriental garnet, almandine ruby, and carbuncle.

### [\[edit\]](#) Pyrope

Pyrope (from the Greek *pyrōpōs* meaning "fire-eyed") is red in color and chemically a magnesium aluminium [silicate](#) with the formula Mg<sub>3</sub>Al<sub>2</sub>(SiO<sub>4</sub>)<sub>3</sub>, though the magnesium can be replaced in part by calcium and ferrous iron. The color of pyrope varies from deep red to almost black. Transparent pyropes are used as gemstones.

A variety of pyrope from [Macon County, North Carolina](#) is a violet-red shade and has been called *rhodolite*, from the Greek meaning "a rose." In chemical composition it may be considered as essentially an isomorphous mixture of pyrope and almandine, in the proportion of two parts pyrope to one part almandine. Pyrope has tradenames some of which are [misnomers](#); *Cape ruby*, *Arizona ruby*, *California ruby*, *Rocky Mountain ruby*, and *Bohemian garnet* from the [Czech Republic](#). Another intriguing find is the blue color-changing garnets from Madagascar, a pyrope spessartine mix. The color of these [blue](#) garnets is not like sapphire blue in subdued daylight but more reminiscent of the grayish blues and greenish blues sometimes seen in [spinel](#). However, in white [LED](#) light the color is equal to

the best cornflower blue [sapphire](#), or D block [tanzanite](#); this is due to the blue garnet's ability to absorb the yellow component of the emitted light.

Pyrope is an indicator mineral for high-pressure rocks. The garnets from [mantle](#) derived rocks, [peridotites](#) and [eclogites](#), commonly contain a pyrope variety.

## **t] Almandine**

Almandine, sometimes incorrectly called almandite, is the modern gem known as carbuncle (though originally almost any red gemstone was known by this name). The term "carbuncle" is derived from the [Latin](#) meaning "live coal" or burning charcoal. The name Almandine is a corruption of [Alabanda](#), a region in [Asia Minor](#) where these stones were cut in ancient times. Chemically, almandine is an iron-aluminium garnet with the formula  $Fe_3Al_2(SiO_4)_3$ ; the deep red transparent stones are often called precious garnet and are used as gemstones (being the most common of the gem garnets). Almandine occurs in [metamorphic rocks](#) like [mica schists](#), associated with minerals such as [staurolite](#), [kyanite](#), [andalusite](#), and others. Almandine has nicknames of Oriental garnet, almandine ruby, and carbuncle.

*To be continued*

*Information source: Wikipedia*

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*Northern Districts Lapidary Club acknowledges the support of Hornsby Council.*

~NORTHERN DISTRICTS LAPIDARY CLUB INC. holds the majority of its monthly meetings in the Becroft Community Centre, Becroft Road, Becroft at 8pm on the 2<sup>nd</sup> Tuesday of each month except January. Variation in date and time of meetings are published in Lapis, and on the club website. The Entrance to the clubrooms is on the railway side of the building. ~

**Membership Fees:** effective from 01/07/2009  
Entrance/ Annual Subs

Full Member aged 18 or more yrs	\$25	\$20
Junior member aged 10 to 17 yrs incl.	\$10	\$10
Family Concession	\$40	As Above
Junior Associate member aged less than 10 yrs		No charge

In case of a person being admitted to membership on or after January 1<sup>st</sup> in any Club financial year, the subscription fee that year shall be half the amount.

THE CLUB FINANCIAL YEAR IS FROM  
JULY 1<sup>ST</sup> – JUNE 30<sup>TH</sup>

WEBMASTER – Alex Maitland  
Mail to: [ammaitland@optusnet.com.au](mailto:ammaitland@optusnet.com.au)

CURRENT CLASSES & ACTIVITIES  
HELD IN CLUB ROOMS

- Monday** 7.30pm CABOCHON CUTTING  
Instructors Glenn Brown 9617 0446  
7.30pm SILVER JEWELLERY  
Instructor Johan ten Hoedt 9484 6521
- Tuesday** 9.00am SILVER JEWELLERY workshop  
Contact Ed Bentley 94985748
- Wednesday** 10.00am SENIORS ALL DAY Workshop  
Contact George Hunter 9871 2126  
7.30pm SILVER JEWELLERY  
Instructor Brian Burns 9878 4073
- Thursday** 7.30pm CABOCHON CUTTING  
Instructor John Weatherburn 9871 3302  
7.30pm FACETING CLASS  
Instructor Norm Fitzpatrick 9876 1815
- Friday** CASUAL COMPETITION CUTTING  
No teacher – self help - enquiries please  
contact John Weatherburn – 9871 3302
- Saturday** 1.00pm Family CLASS  
Instructor Paul Khoo  
with Corin Sadlier 9869 7775

CLASS FEES can be paid to your class teacher, also  
annual membership fees when due and any purchases  
from the shop.

CLASS, CASUAL & WORKSHOPS FEES –  
EFFECTIVE FROM 01/01/09

First Class – per term (School Term)	\$30
Any Additional Class – per term (School Term)	\$25
Casual Use of Machinery – per attendance	\$5
Workshops – 2 day weekend	\$25
1 day (plus materials)	\$15

Workshop Weekends: Subject, Date, and requirements  
will be printed in this newsletter as they occur.

There are waiting lists for some classes

DATES OF INTEREST

2011 – GEMBOREE – NSW – Bathurst –  
April 22-25

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**Lapis now available by**  **or**  
 **!!**

Members, if you would prefer to receive your  
LAPIS by email rather than by snail mail  
please send you email address to Colin  
Hazell. My email is  
[col.hazell@Bigpond.com.au](mailto:col.hazell@Bigpond.com.au)  
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those of the original Authors and do not  
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or Members of the Northern Districts Lapidary  
Club Inc. Persons acting on any opinions, advice  
or facts published in the Issue do so at their own  
risk.

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**From the Editor's Desk**

Please send me contributions for LAPIS. I am  
interested in articles that would be enjoyed by one  
and all

Ph. (02) 9888 7650 or Mobile 0410 659  
729 Email [col.hazell@bigpond.com.au](mailto:col.hazell@bigpond.com.au)

MEETING DATES for 2011

All meetings are held in the Clubrooms at  
Beecroft

**Tuesday 8<sup>th</sup> February, 7.30pm**

Tuesday 8<sup>th</sup> March, 7.30pm

Tuesday 12<sup>th</sup> April, 7.30pm

Saturday 14<sup>th</sup> May, 2pm

Saturday 18<sup>th</sup> May, 2pm

Saturday July 16<sup>th</sup>, 2pm

**AGM Saturday 13<sup>th</sup> August, 2pm**

Tuesday 13<sup>th</sup> September, 7.30pm

Tuesday 13<sup>th</sup> September, 7.30pm

Tuesday 11<sup>th</sup> October, 7.30pm

Tuesday 8<sup>th</sup> November, 7.30pm

Saturday 10<sup>th</sup> December, 2pm, Christmas Party

**Management Committee** meets the last Tuesday  
of each month except December, at 7.30 pm, in  
the clubrooms.

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**The following 3 pages in order are:-**

Field Trip Planner for 2011  
Yerranderie FieldTrip Registration Form  
GEMBOREE 2011 Registration Form

Date	Day	Field Trip (Open to members only)	Meeting Details e-mailed on registration.
<b>Sunny Corner (158km – 3 hrs)</b>			<b>&lt; Lithgow Caravan Park (02) 6351 4350 &gt;</b>
11/02/2011	Fri	<b>(Need State Forest Fossicking Permit)</b>	Lithgow Caravan Park
12/02/2011	Sat	Bring Caravan (Lithgow) Tent (Sunny Corner) Food	Sunny Corner Common (Pit Toilet)
13/02/2011	Sun	Equipment: Pans, Sieves, hammer, chisels	Mineral: Au, Ag, Gem stones and minerals
<b>Ruby Creek / Porters Retreat / Isabella River (220km – 4 hrs)</b>			<b>CANNOT COLLECT (Saturday)</b>
4/03/2011	Fri	National Park Trip (Day back pack, camera & water)	Bushwalk to site's
5/03/2011	Sat	Porters Retreat (Pans, sieves, shovel & seats and shade)	Mt Werong Bush Camp (Pit Toilet)
6/03/2011	Sun	Pine Forest, mushrooms & picnicking	National Park: Trip Walk Photo & no touch Porters Retreat: Sapphire
<b>Mystert Tour – Thornleigh Locality Limit 25 participants</b>			<b>DAY TRIP</b>
17/03/2011	Thu	<b>Morning Bush walk 3km / Afternoon Tour</b>	<b>Back pack, sun hat, Lunch, sun cream</b>
<b>Oberon-Vulcan State Forest (203km – 3 hrs)</b>			<b>&lt;Black Springs Camping Grounds&gt;</b>
25/03/2011	Fri	Not designated Fossicking Area's	
26/03/2011	Sat	<b>(Need State Forest Fossicking Permit)</b>	Black Springs (Pit Toilet)
27/03/2011	Sun	Bring: Caravan/Tent (no power) Equipment: Sieves, hammer, chisel, pick shovel	Mineral: Sapphire, Zircons and gem stones
<b>GEMBOREE Bathurst NSW 2011 (181 km – 2-3/4 hrs)</b>			<b>&lt;Bathurst Showground pre-book&gt;</b>
22/04/2011	Fri	Bring: Smile	National Gem Show.
23/04/2011	Sat	Place an entry in a number of categories...	Accommodation: Bathurst Showground Book with GLC
24/04/2011	Sun	Equipment: Time and patience	
25/04/2011	Mon	Select: one or more days.	
26/04/2011	Tue		
<b>Bow Wow Gorge Fossil &amp; Flora Conservation Area (120km – 1½hrs)</b>			<b>– DAY TRIP CANNOT COLLECT</b>
8/05/2011	Sun	Bring Lunch, Equipment: Camera or sketch book Bushwalk to site	DAY Trip Walk Photo & no touch
<b>Apsley &amp; Cow Flats Rockley Locality (210km 3 hrs) BIG4 Bathurst Panorama Holiday Park, Fcall: 1800 669 911 Tel: 02 6331 8286</b>			
20/05/2011	Fri	<b>(Need State Forest Fossicking Permit)</b>	Weekend
21/05/2011	Sat	Bring: Caravan, Tent, Food	Bathurst Caravan Park
22/05/2011	Sun	Equipment: Pans, Sieves, hammer, chisels	Minerals Au, Ag, Gemstones and minerals
<b>Yerranderie (300km – 4 hrs)</b>			<b>&lt;Yerandarie Homestead &amp; Cabins&gt;</b>
10/06/2011	Fri	Rocky Winter Christmas	Bushwalk to site's
11/06/2011	Sat	Bring: Clothes for 4 seasons	Yerrandarie Village
12/06/2011	Sun	Equipment: whatever fits into boot and you can carry	<b>NO Caravan</b> (no electricity) pit toilet
13/06/2011	Mon	Temp may fall below zero.	Mineral: a lot
<b>Bulahdelah (220km – 2½ hrs)</b>			<b>Bulahdelah Caravan Park (02) 4997 8197</b>
15/07/2011	Fri	Bring: Food – bushwalk to site	Bulahdelah Caravan Park
16/07/2011	Sat	Equipment, Day pack, water, hammer, chisel	Mineral: Alunite, Calcites, Au
17/07/2011	Sun		
<b>Guyra Wilderness (600km – 7 hrs)</b>			<b>BACK PACK INTO BUSH</b>
26/09/2011	Mon	Tent, no amenities or facilities, kybo ??	
27/09/2011	Tue	Bring: 7 days food, no kiosk once off road	Walk-in Bush Camping with back pack
28/09/2011	Wed	Equipment: Light weight Selective for carrying	Minerals: Sapphire, gemstones
29/09/2011	Thu	Backpack max weight 20% body weight	Au at Dalmorton
30/09/2011	Fri		2WD & 4WD
1/10/2011	Sat	Guyra Dalmorton Au if time permits	
2/10/2011	Sun		
<b>Mount Wilson Iron Quarry and Flora (108 km – 1½hrs)</b>			<b>DAY TRIP</b>
23/10/2011	Sun		DAY Trip Walk Photo & no touch
<b>Broken Hill Gem &amp; Mineral Show</b>			<b>To be advised</b>
28/10/2011	Fri		
29/10/2011	Sat	To be advised	Rock on 2011
30/10/2011	Sun		
<b>Kulnura Quarry (70km – 1 hr)</b>			<b>DAY TRIP</b>
13/11/2011	Sun	Bring: Lunch, Hat, sun screen, chair Equipment: Hammer, chisel & carry bag	Day Trip: Zeolites
<b>Kiama (130km – 2 hrs)</b>			<b>East Beach Caravan Park (02) 4232 2124</b>
3/12/2011	Sat	Bring Caravan/Tent/Food day pack to pick and carry	Kiama Caravan Park
4/12/2011	Sun		

PLEASE NOTE: These field trips are tentative – pending final negotiations with land owners.

Additional Trips – Bush Camps 1. Abercrombie Caves & Abercrombie/Isabella River, 2. Carters Hill, 3. Green Swamp Sunny Corner Yerranderie Field Trip registration

Date	Day	Field Trip (Open to members only)	Meeting Details e-mailed on registration.
<b>Yerranderie (300km – 4 hrs)</b> <Yerranderie Homestead & Cabins>			
10/06/2011	Fri	Rocky Winter Christmas Bring: Clothes for 4 seasons Equipment: whatever fits into boot and you can carry Temp may fall below zero.	Bushwalk to site's Yerranderie Village <b>NO Caravan</b> (no electricity) pit toilet Mineral: a lot
11/06/2011	Sat		
12/06/2011	Sun		
13/06/2011	Mon		

### June Trip to Yerranderie

Saturday 11/6/2011 to 12/6/2011 is obligatory, Friday night and Sunday night are optional

**Those members attending must pre-book by paying 50% Deposit on registration.**

Four styles of Accomodation are available

### POST OFFICE

6 rooms / 31 beds      \$44 per person per night

Nights / Please indicate couple to share room	Sat only	Fri/Sat	Sat/Sun	Fri/Sat /Sun
<b>Cost</b>	<b>\$44</b>	<b>\$88</b>	<b>\$88</b>	<b>\$132</b>
Name/e-mail				
Name/e-mail				
Name/e-mail				
Name/e-mail				
Name/e-mail				
Sub Total				
TOTAL				

**Camping (NO CARAVANS) Recommend to have hiking tent inside dome tent (due to low temperatures – to minus10deg) Lash down all tie ropes. \$12 per person per night**

Nights / Please indicate couple to share room	Sat only	Fri/Sat	Sat/Sun	Fri/Sat /Sun
<b>Cost</b>	<b>\$12</b>	<b>\$24</b>	<b>\$24</b>	<b>\$36</b>
Name/e-mail				
Name/e-mail				
Name/e-mail				
Name/e-mail				
Name/e-mail				
Name/e-mail				
Name/e-mail				
Sub Total				
TOTAL				

Route: Beecroft – Katoomba – Hartley – Oberon – Shooters Hill – (Dirt Road) – Yerranderie

Contact: Edward Zbik, Field trips Officer, phone (02) 9638 6586 e-mail [etzed@optusnet.com.au](mailto:etzed@optusnet.com.au)

Deposit: BANK: National Australia Bank BSB 083-088 Account Number 69-320-7310

NAME: Mr. E & Mrs T Zbik