



# Western Australian Native Orchid Study and Conservation Group

## July 2015 Bulletin

### Vale Bill Burton (1922 - 2015)

William (Bill) Henry Burton was born on the 21st of June 1922 in Melbourne. He moved to the West after the war when he was offered a job by MacRobertson Millar Airlines (MMA).

Bill joined WANOSCG in November 1986. He served on the committee in 1991-1995, contributed to WANOSCG bulletin on many occasions and was WANOSCG's longest-serving Librarian, serving in this position from 1996 to 2011.

Bill was also an orchid grower extraordinaire and a prolific contributor to the WANOSCG Plant Table section with many species .

In 2008 Bill was awarded Life Membership of WANOSCG for long and meritorious contribution to the club.

Bill Burton passed away at 5:45pm on Thursday the 9th July. He was 93.



#### INSIDE:

- Meeting Minutes
- Tick Aid
- Field Trip List
- Field trip reports
- And more

Bill has been a stalwart of our club over many years and will be sadly missed.

Our thoughts and condolences are with Sarah and family.

Bill's funeral will be conducted by the Purslowes at Karrakatta on the 20th July .

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General Meetings are held 7:30pm the 3rd Wednesday of the month, March through November, at the BGPA Boardroom, Kings Park

# WANOSCG GENERAL MEETING MINUTES

## Wednesday 17<sup>th</sup> June 2015

Meeting held at: BGPA Boardroom, Kings Park.  
Meeting opened: 7:35 PM

**CIRCULATION OF REPORTS:** Attendance Book and Treasurer's Report were circulated to the members

**ATTENDANCE:** 28 members present, 7 apologies, 1 Visitor: Emily Green-Armytage. Emily is doing research on orchids through UWA and is working in part with Mark Brundrett

**APOLOGIES:** Ramon Newmann, Tom Burbidge, George Kokosinski, Ross and Margaret Fox, Bill Burton, Sarah Atkinson

**RAFFLE:** Prize donated by Matz Dahlkamp

### 1. PREVIOUS GENERAL MEETING MINUTES

Some changes need to be made to the April and May WANOSCG General meeting minutes published in May and June bulletins.

- i) At item 1 in both the April and May minutes change 2014 to 2015.
- ii) At item 6.3.4 under conservation published as follows:

6.3.4 Golconda: North of Perth is a mineral sands company named 'Golconda'. (Check their website to see what they are doing). They are trying to find an 'offset' to compensate for their mining operations. Eddy suggested that if we had data for say *Paracaleana dixonii* it might be possible to encourage them to acquire that land for the purposes of their offset obligations.

Change to

6.3.4 Golconda: North of Perth is a private property named 'Golconda' with which Eddy is associated. A mineral sands mining company nearby is proposing to expand their area of mining and they are trying to find an 'offset' to compensate for the clearing required. The offset they are looking for needs to contain *Paracaleana dixonii*. An environmental consulting firm working for the company asked Eddy whether Golconda contained *Paracaleana dixonii*. Eddy indicated he hadn't surveyed Golconda at the appropriate times, and offered his and WANOSCG's services to undertake a proper survey for this species at the right time if requested. If it is present at Golconda, the mining company might acquire the land for the purposes of their offset obligations.

- iii) Item 3 of 20<sup>th</sup> May Minutes published in June Bulletin – change *31st March* to *30th April*
- iv) Item 3 published in the June Bulletin - Income for April should be **\$895.45** (not \$865.45) and expenditure for April should be **\$401.50** (not \$285.50). The year to date income and expenditure totals were correct.

It was moved Matz Dahlkamp and seconded Kevin Uhe that the General Meeting Minutes of 20th May 2015, as published in the June 2015 bulletin and subsequently amended as above are a true and accurate record of that meeting.

*Carried.*

### 2. BUSINESS ARISING FROM THE PREVIOUS MEETING

**2.1 Supper Roster:** Volunteers are still needed for September and November – (*Ed:* – now only September needs to be filled)

**2.2 Noel Hoffman's suggestion of compiling validated digital photos of all WA native orchids:** Noel and Justin Brown have made a start on the new website and organised a provider and domain name. The Treasurer reimbursed Noel for these costs (\$127.2). Noel asked members to send photos of a reduced size (600x900)

and generally in landscape view (some tall thin orchids may need to be in 'portrait' view). Photos can be sent electronically by email (for email address see separate article on the photo website) or given to Noel on a thumbdrive. On the name of the photo include the species name, date [using format dd/mm/yyyy] and general location [eg Albany, Kalamunda].

**2.3 5 Year Plan:** still nothing further to report.

**2.4 Speakers for 2015:** we are still looking for speakers for September and October.

**2.5 Database:** Those wishing to submit Orchid Sighting sheets can email them to Ramon Newmann [REDACTED]. When Ramon returns from holidays he and Donna will discuss how Donna's data sighting sheet could best be adopted so that it is better aligned with the way the data needs to be entered into the Database.

### 3. TREASURER'S REPORT

For the period 1st February 2015 to 31st May 2015

	MTD (1/05/15-31/05/15)	YTD (1/02/15-31/05/15)
<b>Income</b>	\$955.00	\$3593.45
<b>Expenditure</b>	nil	\$1192.50

Treasurer reported on the transactions during this period and members had no further questions from the report which had been circulated.

It was moved Margaret Petridis and seconded Kim Hanson that the Treasurer's report as circulated to the members be accepted as a true record of the club's finances. *Carried.*

### 4. CORRESPONDENCE

#### 20th May 2015 to 16th June 2015

**Inward emails to the WANOSCG Web site and [REDACTED]:**

Electronic and / or hardcopies of Newsletters and Bulletins have been received over the period from: Orchid Society of Western Australia Inc, ANOS Illawarra, ANOS Sydney, ANOS Macarthur, NOSSA.

Date	Sender	Topic
4/6/15	Margaret Collins	Andrew's latest paper on Caladenia is available in Nutysia and can be downloaded from Florabase
29/5/15	Kevin Uhe and Margaret Petridis	Orchid surveys in summer burns
29/5/15	Ryan Phillips	Title for his presentation will be "Orchids of Central and South America"
10/6/15	Helen Bryant	CCWA - 17 June 2015 - General Meeting
21/5/15	wanoscg newsletter: Fwd from Kingsley Dixon	<i>Pyrorchis nigricans</i> flowering sites
19/5/15	Wanoscg newsletter	Donna's Updated Orchid Sighting Form
19/5/15	Mark Sullivan	1% for Orchid Conservation Update 30

**Outwards correspondence and Business arising from correspondence:**

Nil



## 5. FIELD TRIPS

### 5.1 Reports on field trips that appeared in the June Bulletin:

- 2nd & 3rd of May trip to NORTHCLIFFE and NORTH WALPOLE
- 8th May Southern River Group Denmark Bunny Hop
- 30th May to 1st June Long Weekend trip to Kalbarri and Eurardy

Thanks to Margaret Petridis, Kevin Uhe and Anna de Haan for those reports.

### 5.2 Upcoming Field trips

- **Saturday June 20th:** This trip has been changed to a one day trip. It is still going to the Jurien area looking for *Thelymitra apiculata* and *Diuris perialla* and other species. Eddy Wajon is to lead this trip. Interested members should speak to Eddy tonight or call him on [REDACTED] to get details of the meeting time and place on Saturday morning.
- **July 19th:** Pingelly Nature reserves. This trip will proceed as advertised.
- **August 8th/9th:** Kalbarri area (dependent on winter rainfall). If conditions are too dry then an alternative destination will be advised at the July General Meeting.
- **August 15th - 22nd:** WEEK LONG CAMPING TRIP to the east of Esperance focussing on *Pterostylis* species (snails) with Andrew Brown. The snail trip planning is complete. The maximum numbers on trip is 20 members and 10 vehicles (19 people and 10 vehicles at present).
- **August 24th-28th:** Eurardy survey: As some members will be making their way back from the "Week Long Camping" trip we may need to have a swap over of members to make sure that the best use of time and resources is achieved. [NOTE – this trip may also have a changed location if conditions remain too dry]
- **September 12-13th:** Master's property at South Bokal: MP has contacted the Masters and there will be camping accommodation for 6 or 7 camp sites and up to 20 members at the property (chemical toilets, no showers). Other interested members could stay at nearby towns or campsites (Lake Towerrinning). People can arrive on the Friday if they wish.

**5.3 Orchid surveys in summer burns sheets** - The list of burnt sites as compiled by Kevin Uhe was published in the last (June) Bulletin. Kevin has advised that some members have already adopted some of the 'burns'. He asked that members do some exploring and report back any sites that are NOT likely to be of interest so that the Group can focus on the more potentially productive ones. All members are encouraged to form a small group and adopt at least one burn.

### 5.4 Personal Field Trips

Members were reminded to fill out the personal field trip report form on the front table to help the Secretary record their names and where and what they have found. No one filled out the form. Oral reports came from

- Marina K – *P hamiltonii* at Pingelly
- Pat R – *L fimbriata* and greenhoods in bud at Darlington
- John E – *D brumalis* at Kalamunda
- Noel H - very few *D perialla* at Dongara but he is going to investigate a possible new population north of Dongara during the next week. Noel also reported that he had been informed that *T variegata* had been seen flowering last week in the Stirling area.

Members were again reminded to fill out Orchid sighting sheets (created by Donna) and send them to the registrar (Ramon Newmann or Peter Proudfoot in Ramon's absence). If you don't have a copy of the sheet then send an email to the Secretary [REDACTED] and he will provide you with an electronic copy.

## 6. CONSERVATION

No conservation report for June as Tim Hodgkins is away for the months of May and June. There were no further developments in any of the issues raised in the May meeting. Eddy Wajon did comment that there was a delay in the provision of a report in relation to the Perth-Darwin highway and that this will now be available in August. [Members are reminded to look at the website information about the new highway development.]

Eddy reported that the Minister has denied permission for recreation shooters to hunt feral animals in National Parks. Jay will send a letter thanking the relevant ministers for their support on this matter.

No other conservation matters were raised.

## 7. GROWERS TABLE

Nothing presented.

## 8 GENERAL BUSINESS

**8.1** A vote of thanks to Eddy Wajon and Jane Scott who have each donated 10% from their respective book sales to the club. It is noted that Eddy has been making donations of this type for quite a number of years.

There were no other items of general business.

## 9. PRESENTATION

Urszula Kokosinska                      *Caladenia Uliginosa* subsp. *patulens*

Urszula had some beautiful slides of her ADORP species, the Frail Spider Orchid. She showed us some plants with 4 flowers which were up to 700mm tall, commenting that Andrew will have to rewrite the Field Guide book to update the information. The data that she and George have collected shows wide variations in the flowering with the most interesting case of the burning of the Nannup population while it was still flowering having no ill effect on the population the following year. Indeed there was a huge increase in the recorded number of flowering plants, although the point was made that the burn was not very hot. Urszula showed us a photo from a new population discovered on the road between Nannup and Capel, although the particular photo seemed rather, let us say, 'different'. We missed George's presence [He is in Poland visiting his father and photographing "some small brown bird" (quote Mrs U. Kokosinska), but we did get to see him sniffing flowers (*patulens* has a strong sweet scent). Urszula was thanked for an interesting and informative presentation.

## 10. RAFFLE DRAW:

The raffle was drawn by Urszula, the winner being Jeanette Cumming

**MEETING CLOSED: 9:00 pm**  
**NEXT MEETING: 7:30pm**  
**Wednesday 15th July 2015**



George Kokosinski measuring *Caladenia uliginosa* subsp. *patulens*.

## FIELD TRIP UPDATE

Below are details on some of the upcoming field trips. For full list see the back page. Members wishing to attend or for further information please contact Margaret Petridis on [REDACTED].

### JULY 19th July – Pingelly

Day trip to Pingelly area looking at a number of reserves to see what we can find and record. Pingelly area has a number of reserves in different habitats to explore and is an area which has a number of different species.

### AUGUST

#### 8th-9th August – Kalbarri area (\*)

Weekend trip to search for northern flowering orchids in the Kalbarri area including burn areas that may yield fire enhanced orchids.

#### 24-28 August—Eurardy Station Surveys (\*)

Last year a small group of members visited Eurardy Station to help search for a number of DRF species that grow in the area. We have had contact from Vanessa at Eurardy seeking the help of WANOSCG to assist in this year's surveys.

The dates for the surveys are from Monday August 24 to August 28 and accommodation is available at Eurardy for cabins, camping or caravans.

To reduce the impact on the environment there will be a restriction on the number of people who can attend though depending on interest we may be able to rotate members during the week if people only wish to do a couple of days.



*Prasophyllum fimbria*  
Photo by M. Karyagina.

**(\*) *The field trip to Kalbarri and the surveys at Eurardy in August will be dependant on good winter rainfall. At the moment it looks like that rainfall up North has been pretty limited. An alternative trip for the 8-9th of August will most probably be to the Frankland—Northcliffe area. Margaret is doing some recognisance this weekend and will advise members at the July meeting.***

**SEPTEMBER** See back page

### OCTOBER

#### 3rd/4th October: Boddington burn and Nature reserve survey:

Members can attend either day or both.

#### 17th/18th October: Northcliffe/Walpole burn:

We will be meeting at the Northcliffe Visitor Centre in the morning of 17th and also at lunch time if there are any later arrivals. We will be based at Northcliffe on Saturday night 17th October, and a group booking has already been made at the Watermark Kilns where the Double Kiln can accommodate 7 - 10, the Single Kiln for 2 and the cottage for 3 persons.

Please contact Margaret Petridis to book a bed.



WANOSCG members on a recent field trip to Kalbarri.  
Photo by M. Petridis





### Field trip report – Sat 20 June, Jurien Area

This day trip started dry and sunny. First stop was on a track running north from the Coolimba-Eneabba Road, approximately 50 km north of Jurien. In this low heath area, we saw a good-sized clump of *Pterostylis microglossa* - the Kalbarri Shell Orchid, sheltering under a shrub. Another individual was found a few meters away. Much to Eddy's surprise, we also found a single *Thelymitra pulcherrima* (Northern Queen of Sheba) nearby, but the day was clouding over and it remained sadly closed. There were many other beautiful plants flowering including *Hakea*, *Calectasia*, *Acacia* and *Banksia*.

The second site we stopped at was a few hundred meters further up the same track, to an area higher in the landscape. No orchids were found there apart from the shrivelled remains of some *Leporella fimbriata* (Hare Orchids).



Site 3 was further east along Coolimba-Eneabba Road, in an area where members had spotted *T. pulcherrima* in previous years, albeit later in the year. There was no sign of them this time, but Anne Storrie found a cluster of leaves that appeared to be of some species of *Drakaea*. Also at this site, which was quite wet and boggy, was a beautiful brown Bardick (a small venomous snake).

A drive south down Brand Highway and then west a good way along Banovich Rd brought us to a site where Eddy and Donna had found a couple of *T. apiculata* (Cleopatra's Needles) the previous week. The rain had set in by then, and sadly all 10 individuals that we found on this occasion were firmly closed. They were all found in a fairly elevated position on lateritic ridges. Donna also spotted two *T. flexuosa* (Twisted Sun Orchid), also in bud. We had hoped to find more orchids further along the road, but were only rewarded by a single *Pterostylis dilatata* (Robust Snail Orchid).



Heading back and then further south down Brand Highway, we visited Hi-Vallee farm, where Don Williams (the owner) showed us around his property (after a very welcome cup of tea). Up on the rocky mound behind the homestead were several *Diuris perialla*, including one with 6 flowers. We then headed off in the 4wds and were thrilled to view an emu nest complete with 13 eggs, another *T. apiculata* (again firmly closed), as well as a stunning specimen of *Eucalyptus macrocarpa* subsp. *macrocarpa*. Some stunning threatened *Dryandra catoglypta* were also found.

Many thanks to Eddy for arranging this trip.

Emily Green-Armytage

This page from the top: *Duiris perialla*, *Pterostylis microglossa*.

Next page: Emu eggs, *Thelymitra pulcherrima*

Photos by E. Wajon.



### SOUTHERN RIVERS GROUP - Albany Wind Farm 13<sup>th</sup> June 2015

On a blustery day club members met at the Windfarm for a stroll under the turbines. Within the first few meters *Prasophyllum* sp. 'early' (Scented Autumn Leek) was sighted, followed by many more plants from buds, to stems bursting with over a dozen flowers. A very limited number of *Pterostylis rogersii* (Curled-tongue Shell) were sighted in two locations only. Further along *Pt. vittata* (Banded Greenhood) as well as the *Pterostylis* sp. 'coastal' (Coastal Banded Greenhood) were seen. Dozens of *Pyrorchis nigricans* (Red Beaks), *Eriochilus dilatatus* subsp. *multiflorus* (Common Bunny) and *Eriochilus dilatatus* subsp. *magnus* (Easter Bunny) leaves grew along the edges of the boardwalk. All flowered bunnies had gone to seed.

Our second stop was Sharp Point with its stunning coastal views. Only one colony of nine *Pt. rogersii* was found. However, dozens of immature rosettes of *Pterostylis* will have us return later in the season.

Lunch at Frenchman Bay became a history lesson on the Norwegian Whaling Station and Richard III. (No orchids here). Granite rocks on the protected westerly side of Waterbay Point added *Cyrtostylis robusta* (Large Gnat) leaves, some with the first visible buds and dozens of *Cryptostylis ovata* (Slipper) leaves to our list.

Our final stop at Stony Hill added *Cyrtostylis robusta* in flower and the very last *Eriochilus dilatatus* subsp. *multiflorus* flower. Throughout the day we remained dry, even though showers were forecast and scudding rain passed on either side of Torndirrup Peninsula.

Anna de Haan



Early Donkey Orchid  
*Diuris perialla*

**Mike Macpherson writes from the road** that he found a population of *Diuris perialla* at Allanooka Springs Rd, Mingenew. One population only of around 100 plants in 5 square meter area. Six plants in flower, approximately 50% of the population finished.

Multitudes of emerging leaves of other orchid species noted. One other *Diuris* species with elongating flower spikes. Around 20 early phase flowering greenhoods also noted.



## Overseas Orchids

Both, the former Bulletin editor Paul Winthrop and the current editor Marina Karyagina are away overseas in USA and UK, respectively. Here are some of the photos of the overseas orchids they came across.



Clockwise from above: Fairy slipper orchid, white bog orchid (?), spotted coral root (?) (Photos from USA by P. Winthrop). Bee orchid, common twayblade orchid, early purple orchid and marsh helleborine (Photos from UK by M. Karyagina).

*Please do not rely on the identifications—they are approximate and may be incorrect!*



It is a sure bet that anyone who has been orchid hunting for a reasonable stretch of time has picked up a few ticks along the way.

Apparently, these pesky critters have been tormenting humans for millennia. According to (Ref. 1) "...tick fever' was mentioned in Egyptian papyrus scrolls as early as 1550 B.C. and Homer, in 850 B.C., referred to the occurrence of ticks on Odysseus' dog. Cato, Aristotle and Pliny referred to ticks as disgusting parasitic animals which were very troublesome".

Troublesome indeed! Problems associated with tick bites include tick paralysis, transmission of infectious disease and occasionally, allergic reactions (Ref. 2). In Western Australia, the most common tick to encounter is the kangaroo tick (*Amblyomma triguttatum*). We are lucky enough here in WA not to have a more dangerous tick species, Paralysis tick (*Ixodes holocyclus*) which is associated with more serious consequences such as paralysis and death in small children. There have been people controversially diagnosed with Lyme disease (which is transmitted by ticks) in WA, although this diagnosis is not universally agreed upon (Ref. 4).

There is abundance of advice on how to prevent ticks attacking you and how to deal with them once they have attached themselves. Check out the bush regenerators book above for comprehensive advice.

### TICK ADVICE FROM WA HEALTH WEBSITE:

Ticks can attach to your skin when you're out and about in the bush. To protect yourself from ticks, wear light coloured clothing, tuck your trousers into your socks and spray an insect repellent containing diethyltoluamide (DEET) or picaridin onto your skin, shoes and socks. After returning from a tick area, thoroughly check the whole body of all members of the party (especially children) for ticks. Pay particular attention to the back of the head and neck, groin, armpits and back of the knees. You can have more than one tick.

To remove a tick, grasp it as close to the skin as possible with fine tipped tweezers. Gently pull the tick straight out using steady pressure. A portion of the head or mouthparts may be left behind. These will fall out in time.

DO NOT:

- grasp the tick by the body,
- apply methylated spirits or fingernail polish, or
- use a lighted match, or cigarette.

Once the tick is out, apply antiseptic cream to the bite site. Tick bites can remain slightly itchy for several weeks.

If the tick isn't fully removed, you should look out for signs of infection – redness, pain around the wound site, pus or clear liquid coming from the wound, and a high temperature over 38°C.

See your doctor if you develop a reaction around the bite site, or if you feel generally unwell or experience muscle weakness or paralysis after a tick bite.

<http://www.healthdirect.gov.au/#/insect-bites-and-stings>

**Don't grab them'.** Use a cream containing permethrin. This is basically the same kind of cream as you get for scabies. Just rub that in. The ticks will all die and soon you'll be able to just rub them off (Ref. 5).

If any of the members have used advice from Catalyst, we would like to hear from them. Did it work?

Ref. 1 <http://thewww.lowchensaustralia.com/pests/paralysis-tick/paralysis-tick-on-humans.htm>

Ref. 2 <http://www.healthdirect.gov.au>

Ref. 3 [http://ellenbrookbushlandgroup.blogspot.co.uk/2012/01/01\\_archive.html](http://ellenbrookbushlandgroup.blogspot.co.uk/2012/01/01_archive.html)

Ref. 4 <http://www.abc.net.au/local/stories/2014/05/13/4003802.htm>

Ref. 5 <http://www.abc.net.au/catalyst/stories/4177191.htm>

### Ticks and tick-borne diseases protecting yourself



A review of current information for bush regenerators, bush workers and people who love the bush.



The idea is being vigilant and combine:

- Prevention (things to do before going into the bush)
- Checking out for ticks when you get home as many ticks remain unnoticed for days. They can also move from one host (eg. dog) to another!
- Removing the tick so that it does not inject the toxin (easier said than done!).

Some members might have seen the ABC Catalyst program (Ref. 5) on ticks earlier in the year. The program had the following recommendations:

- **For removing adult ticks: 'Freeze it, don't squeeze it'.** Buy a spray containing ether at the chemist, something like Wart Off, or Medi Freeze Skin Tag Remover. Place the nozzle conveniently over the tick and spray. Feels cold - freeze the tick, and wait about ten minutes for the tick to die. Once it's dead, you can just brush it off.

- **For removing little larval ticks: 'Dab them.**



### MEMBERSHIP FEES FOR 2015

All members are reminded that annual subscriptions are now due. The annual single or family membership fee is **\$30**. Payment can be made :

- to the Treasurer in person
- by mail with cheques made out to WANOSCG and sent to: WANOSCG PO BOX 323, VICTORIA PARK, W.A. 6979
- by electronic transfer to the club's bank account:  
BSB: 306044 Bank name: Bankwest  
Account number: 5492468

If you choose to send money electronically please identify what the payment is for (eg "Annual Fees" and send a copy of your receipt of electronic transfer with your name on it to the club's email account ([wanoscg@gmail.com](mailto:wanoscg@gmail.com)))

Please note that if the fees have not been paid by the end of May you will be a non-financial member and not receive the Bulletin anymore.



### BULLETIN ARTICLES

Please email any Bulletin contributions to Marina at [wanoscg.newsletter@gmail.com](mailto:wanoscg.newsletter@gmail.com). Items for the next Bulletin need to be submitted by 1st July 2015

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### Upcoming Field Trip List

Month	Dates	Description
July	19	Day trip to Pingelly area to look at reserves and record findings
August	8/9	Kalbarri area (*)
August	15-23	Week long camping trip to the east of Esperance focusing on <i>Pterostylis nana</i> (snails) species - <i>Almost Full!</i>
August	24-28	Eurardy Surveys - limited numbers (*)
Sep	12/13	Visit to a private property in Moodiarup area
Sep	20	Day trip to Brookton Highway/Toodyay. (To be determined)
Sep	26-28	Stay at Perup Ecology Centre and explore areas in vicinity
Oct	3/4	Boddington burn and Nature reserve survey
Oct	17/18	Northcliffe/Walpole burn
(*) Dependant on winter rainfall. Alternative trip will be advised at July meeting.		

### WANOSCG photographic competition for 2015

Photographs are to be of two or more orchid species (or hybrids) in the same field of view. Members are reminded that photographs must be taken in 2015 under natural circumstances and not be the result of "Photoshopping" two or more orchids into a single photograph. Photographs should be 6"x4", 8"x10" or A4 sized and without a mounting or backing. Members may enter up to three photographs.

2015	ROSTERS		SPEAKERS 2015
	Raffle	Supper	
JULY	Peter and Debbie Proudfoot	Pam Hill	Chris French <b>The new <i>Diuris</i> species</b>
AUG	David and Jane Cumming	Pat Richards	Ryan Phillips <b>Orchids of Central and South America</b>
SEPT	Tom Burbidge	VOLUNTEER STILL NEEDED!	TBA
OCT	Bob Steer	Alison Higgins and John Ewing	TBA
NOV	David Lawson	Kim and Thea Hanson	<b>Photo Competition and Members slides</b>