

# Australian Native Orchid Society - Macarthur Group

April 2014 Edited by Tony Asquith mail: aaasquith@bigpond.com. Phone 4625 9874



President:	Mr. W. Southwell (Ph. 4	46818589)	Posta	l Address:- 43 Strickland Cres.,	
Secretary:	Mr. J. English (Ph. 86262934)			PARRAMATTA. 2150	
Treasurer:	Mrs. C. Asquith (Ph. 46	259874)	Next Meeting:	THURSDAY, 15th May, 2014	
Life Member:	Mr. J. Riley				
Conservation Officer: R. Hanman		ANOS I	ANOS Macathur Group disclaims any responsibility for any		
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#### Venue: BIRRAWA HALL

FITZPATRICK ROAD,	Doors open 7.15pm, benching closes 7.45pm, meeting starts 8pm
Mt. ANNAN.	

# President's Message. Hi to all.

A very good result at the auction last month, lots of interesting items, and it raised enough to pay for the badges. If you have not received your badge yet, talk to Wally as some have not been given out.

(Editor's note: I only wrote here what Wal wrote) As always, Tony did a terrific job as the auctioneer, well done Tony.

Congratulations to Mary-Anne on winning both plant of the night and popular choice, well done!

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A wonderful time of year as the flowering period for native orchids is beginning. Looking forward to a very good year for the orchids and our monthly table shows are getting bigger and better all the time ood growing, Wally.

# **MEETING HELD 17<sup>TH</sup> APRIL, 2014.**

Meeting Opened: About 8pm, and the President Wal welcomed members.

- 1. Apologies: Chris Munson, Marj. Yabsley, Peter Dowling, Peter Wise, Noel Bates.
- 2. Minutes from Previous Meeting:

Proposed by: Terry Cooke seconded by: Tony Asquith

- **3. Business Arising from the Minutes:** Nil
- 4. Treasurer's Report:
  - Proposed by: Carol Asquith seconded by: Terry Cooke

Inward & Outwards Correspondence: Various Newsletters, sent & received..

Moved: Terry Cooke

seconded by: Mary-Anne Warner

# **General Business:**

Thankyou for Graeme for organise club badges.

The auction was very successful.

Don recommended the website of Earth to Joy nursery. He also recommended "K Tech" fertiliser.

Kevin Wilson Auction...34 Coral Rd, Woolooware, 1pm viewing, 1.30pm auction—Saturday 26<sup>th</sup> April.

Raffle : no raffle. And the meeting closed.. about 9.30pm

# AUSTRALIAN NATIVE TERRESTRIAL ORCHIDS

While orchids represent 10 percent of the earth's flowering plants, by contrast with some countries, Australia is not rich in orchids. There are about 660 species of native orchids presently named and these are distributed in some 107 genera. This represents about 4 per cent of our flora, Despite these numbers more than 70 per cent of Australian orchids are unique and are not found anywhere else in the world. Three quarters of the Australian orchids grow as terrestrials, the remainder is epiphytes.

There is an incredible variety of flower colour with some species opting for dull greens and browns and others advertising in brilliant hues, some in striking and flamboyant combinations. Perfumes (if present) may be deliciously fragrant, spicy, overpowering, or even blatantly obnoxious. (Liparis reflexa, Bulbophyllurn beccadi, Bulbophylium fletcherianurn). Australian orchids are diverse and embrace some interesting variations. In the terrestrials the flowers range in size from about 2 millimetres across in Microtis atrata to about 10 centimeters across in Caladenia patersonii. Some of the flowers resemble gnats, mosquitoes, wasps, bees, spiders, birds and helmets, Some orchids are highly coloured and may mimic other plants.

Floral diversity is also exhibited in the Australian epiphytes. Flowers range in size from 1 millimetre across Oberonia titania to about 7 centimetres across in Phalaenopsis amabilis var. papuana. Pale or dull colours predominate with colourful exceptions being Den, bigibbum (mauve-purple) Den. nindii (blue) Den. speciosum var. grandiflorum (yellow) Rhinerrhiza divitiflora (orange). The flowers of some species may open for but a few hours (Rhinerrhiza divitiflora} where as others may lasts for many weeks (Den, discolor). Perfumes may be pleasant spicy, overpowering, fruity, unusual or un\_pJeasant.\_(Den\_atroviolaceum)

Over 70 per cent of orchids in Australia are terrestrial growers. The largest flowered orchid in Australia is Phaius tankervillae (a local) and is a member of the "Northern Element" of the migrant orchids from Asia. Other "Immigrants" being Calanthe triplecata, and Geodorum densiflorum. The "Southern Element" or true indigenous orchids of Australia have "travelled" up from the southern states and includes 83 Prasophyllum species (the Leak Orchid), 73 Caladenia species (the Spider Orchid), 58 Pterostylis species (the Greenhoods), 35 Thetymitra species (the Sun Orchid), 25 Diuris species (the Donkey Orchid) 12 Corybas species (the Helmet Orchids), 10 Microtis species (the Midge Orchids), all of which have local representatives.

#### Phaius

Much admired, not only for their beautiful flowers carried on tall, upright spikes, but for the leaves themselves which are also very showy, Phaius may be grown quite well in Cyrnbidium mix. They definitely require a fair amount of heat. Two species are principally grown here.

#### Phaius tankervilleae

This is a native to Australia and South-East Asia, and is often known as the "nuns" orchid. There are usually 10 to 15 flowers to a spike and they are white on the back, and reddish brown inside, The labellurn has a yellow throat and crimson sides.

#### **Phaius australis**

A very popular and beautiful species. The flowers, which are borne on tall erect spikes, are white, marked with red. The rare Phaius australis var, bernaysii is a pure canary yellow

#### **CULTURE IN GENERAL**

As there are three distinct groups, it is best to divide culture similarly.

#### **GROUP 1**

The northern "immigrant' type, such as Phaius, Calanthe, Spathoglottis, Malaxis species. Most are evergreen with pseudobulbs, fleshy leaves and typical orchid roots; they grow in bush house conditions.

#### **GROUP 2**

The main genera and the easiest to grow are; (A) Pterostylis, Acianthus, Corybas species that usually grow in moist, humid leaf litter. (B) Diuris, Calandenia, Calochilus, Thelyrnitra and Prasophyllum species which grow in drier, sandy type soils with higher light, best grown under cover with protection from winds and rain.

# **GROUP 3**

The semi or Holo saprophytic (saprophytic means an organism using non-living organic matter for nutriment). This group contains some of the most unusual orchids in the world. In general saprophytic plants lack the green chlorophyll cells that manufacture the plants sugars and starches, To overcome this, the group depends wholly on a symbiotic relationship with a soil fungus. At least two types of fungus have been recorded. The Hymenomycete type with clamp like connections to the root, and Rhizoctonia type, in which the fungal hypae (the underground body of the fungus) intrude into the cells through a break in the outside of the root, or through passage cells in the roots outside layer of cells. On entering the root the fungus coils itself into a tight spiral of hypae within the root cells, (hypae = thread like parts making up the fungus)

Within the root structure are three different types of cells. One is called the fungal host cell,where the fungus invades the plant; cell two is the digesting cell and the third a storage cell layer, stores the starches acquired from the digestion of the fungal hypae. When the fungus enters the root of the plant, it infects the first cell layer and grows rapidly, The plant then intervenes and digests the fungus within the second series of cells, storing the resultant products in the third layer of cells for the plants later use.

Plants which grow in most states of Australia are Gastrodia sesamoides - Potato orchid, Dipodium ppnctatum -Hyacinth orchid, Cryptanthemis slateri - Eastern underground orchid, Rhizanthella gardneri - Western underground orchid. The Great Climbing Orchid, Galeola foliata grows up to I 2m high, and the Gaeola cassythoides is a smaller plant growing up to 6m high.

# PESTS

As with other orchid species pests can be a real problem in growing native orchids. In fact some pests are attracted to native plants before attacking any other species of orchid. Snails, slugs, mealy bug, scale, fungi, aphid, grub, grasshopper, rot, and man are the most common problems to name a few. Control as for any other orchid species.

The Aboriginal tribes used native orchids such as, Spiranthes, Caladenia, Glossodia, Diuris Microtis, Prasophyllum, Theiymita, Edochilus, Acianthus, Dipodium, Lyperanthus, Geodorurn, and epiphytes such as Cym. rnadidurn, Cym. canaliculatum, and Speciosum as a source of food. They also chewed various orchids as medicines for coughs, colds, and dysentery.

# FERTILIZERS

Epiphytic orchids respond to the regular application of fertilizers by producing strong healthy growth. Fertilizers are best applied during spring and early summer while the plants have a long growing period ahead of them. Late applications of fertilizers may delay dormancy and interfere with flowering. Organic fertilizers are excellent for orchids because they release their nutrients in a slow, gentle manner over a period of time. Blood and bone and hoof and horn are fairly commonly used to promote orchid growth. Liquid fertilizers are an excellent means of promoting healthy growth. Applied at less than the recommended strength means you can apply more frequently, which helps in producing much better growth.

# **SLAB CULTURE**

Many epiphytic orchids grow well on a slab or a section of a tree branch, and relish the extra air movement and rapid drying which occurs after watering. Plants grown on slabs are easily moved and can be moved about until a suitable position is found. Orchids grown on slabs require fairly high humidity and bright light. Orchids with a creeping habit or pendulous stems grow best on a slab,(not paper bark) where as those with crowded, erect pseudobulbs are much better accommodated in a pot.

# FERTILIZERS FOR GROUND ORCHIDS

We have seen that most terrestrial orchids rely heavily on a mycorrhizal fungus for their survival. This relationship can be readily upset by the excessive use of fertilizers and hence any fertilizing of terrestrial

orchids must be carried out with care. A small quantity of blood and bone (10 grams per 9 litres of mix) added to the mix would be beneficial. One or two applications of quarter strength fertilizers can also be of benefit to some species.

# MULCHING

Mulching the soil surface with a thin layer of fine leaves has the advantage of reducing moisture fluctuations in the upper layer of soil and inhibiting the germination of weed. It also reduces soil splash when watering, resulting in less leaf rot. The best mulching material is chopped she-oak needles, but the fine sieved leaves from under tea trees can also be satisfactory. The mulch should be applied when repotting so that the new shoots grow up through it.

#### POLLINATION NATIVE ORCHIDS

Dendrobium smilliae is the only Australian orchid that is known to be bird pollinated. The flowers lack fragrance are often pendant and contain nectar. The bird is Bush Canary or Yellow Honeyeater.

Beetles are frequent visitors, to the flowers of large species of Prasophyllum, Microtis parviflora, Microtis unifolia, and Periste^anthus hillii. Calanthe tripilcata are sort after by moths, Habenaria triplonema like to be pollinated by Hawk moths, Bulbophyllum weinthalii attracts blowflies, Microtis parviflora are also visited by small black ants, Rhizanthella gardneri are pollinated by termites. Phaius, Catochilus, Caladenia, Thelymitra, Geodorum, Spiranthes Acianthus eria, Chiloglottis are self pollinated.

These notes have been used at our Cultural and New Grower's Meetings. They are from various sources and we thank the authors. All articles are supplied in good faith and the Bribie Island Orchid Society and its members will not be held responsible for any loss or damage.

This article was supplied by Terry Cooke, and was published in the Bribie Island Orchid Society website.

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Dendrobium Species	Den. lithocola	J. English			
	Den. Lithocola	G. Steenbeeke			
Dendrobium Hybrid	D. Lady Gem x (Debbie x Greta) M. Warner				
	D. Topaz Dream	M. Warner			
Sarcanthinae Species	nil				
Sarcanthinae Hybrid	nil				
Bulbophyllum	B. Schillerianum	R. Morrison			
	B. gilllerianum	R. Morrison			
Aust. Species Other	D. Svenssonii	P. Griffiths			
	D. bowmanii	J. English			
Aust. Hybrid Other	nil				
Terrestrial Pterostylis	Pt. ophioglossa	T. Cooke			
	Pt. Collina	T. Cooker			
Caladenia Species	nil				
Terrestrial Evergreen	nil				
Diuris Species	nil				
Terrestrial Hybrid	nil				
Terrestrial Other	Acianthus exsertus	T. Cooke			
	pussillus	T. Cooke			
Australasian Species	nil				
Australasian Hybrid	D. Bush Pansy	J. English			
Novelty Class (50% or more) nil					
Seedling First Flowering	S. Gadial	I. Lawson			
Growing Competition	1	R. Morrison			
	2	W. & M. Southwell			

Plant of the night is Dendrobium Lady Gem x (Debbie x Greta) grown by Mary-Anne Warner and the Popular Choice was also the same plant and grower, Mary-Anne. Congratulations

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# **GOOD GROWING!**

(A joke to fill in)

Two elderly ladies had been friends for many decades. Over the years, they had shared all kinds of activities and adventures. Lately, their activities had been limited to meeting a few times a week to play cards.

One day, they were playing cards when one looked at the other and said, "Now don't get mad at me... I know we've been friends for a long time but I just can't think of your name. I've thought and thought, but I can't remember it. Please tell me what your name is."

Her friend glared at her. For at least three minutes she just stared and glared at her. Finally she said, "How soon do you need to Know?"