

Bulletin of the Orchid Society of Canberra, Inc.



GPO Box 612, Canberra, ACT, 2601, Australia
Volume 19, Number 6

Nov-Dec 2004

Regular monthly meetings

Monthly meetings of the Society are held on the first **Wednesday** of each month (except January) at the **Canberra Senior Citizens Club (10 Watson St., Turner)**. Meetings commence at 8:00pm with the library and trading table open from 7:30pm.

3 November 2004. Our annual meeting on cymbidiums with Trevor Hughes of Ikeda Nursery. Bring along your plant of *Cym.* Margaret Thatcher 'Perfection' for words of wisdom from Trevor. We'll also hand out the show trophies and certificates at this meeting.

1 December 2004. The OSC Christmas Party.

February 2005. David Banks – topic to be announced.

Orchid Society of Canberra Events

Sunday 7 November, 10am Our **annual workshop and barbeque lunch** at the home of Bill & Ann Osmand, 3 Tuck Place, Richardson. More details inside.

Upcoming Orchid Events in the Region

4 December 2004, 10am start, viewing from 8am.
Monster Orchid Auction at Royale Orchids, 1360 Brieses Road, Peats Ridge. "The largest array of quality plants ever offered in Australia". A reduction of quality stud and show bench plants.

5 December, 9-4. **Dark Star Orchids Open Day @ 183 Windsor Road, Northmead** (Hills District Orchids). Featuring African species and angraecoids, *Paphiopedilum* & *Phragmipedium* species and hybrids, *Lycastes*, vandaceous and other interesting species. Also available from Hills District Orchids, collectable plants including clivias, Nepenthes, Haworthias & Tillandsias. From Tinonee Orchids, orchid accessories incl bark, hangers, pots, fertiliser cork, etc.

Annual Subscriptions

\$25 single, \$30 joint, \$5 junior membership.

From the President

I'd like to say thank you to everyone who helped to make our Spring Show happen. I continue to be impressed at how things get done so well, with so little fuss, in this society. While I appreciate that most of the society members help out one way or another, I noticed that we still rely overmuch on a few people. In particular, I think it would be good if we could train up more people to do the potting demonstrations at the show. Our November workshop would be a great time to get some training from the experts, so that more of us would feel competent to lend a hand in that department. Special thanks to Jane Wright, our show convenor for pulling all the willing hands together to deliver an excellent show.

OSC Email Group

The email group among members of the Orchid Society of Canberra appears to be going well, and I am happy to put more people on the list. If you wish to join, see me at the next meeting or send me an email at david.judge@apsc.gov.au.

David Judge

Committee Members

President- Robert Bush	6297 1427
Vice President- Jane Wright	6254 1119
Treasurer- Robyn Noel	6258 5734
Secretary- Barbara Corsini	6299 7257
Yvonne Day	6297 5162
David Judge	6278 4806
Gerlinde Lenz	6288 7413
Robert Rough	6241 2729
Ben Walcott	6161 2742

Committee meetings

On the WED in the week following the general meeting.
Nov: Robyn Noel, January: Ben Walcott

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Minutes of general meetings

Minutes for September 1st 2004 General meeting

The meeting was opened at 8.05 pm by the president Bob Bush. 7 members gave apologies.

The evening began with a few announcements preceding the talk from the guest speaker of the night, Tupac Otero. These announcements were:

The show – St John's Hall had been secured as our show venue after all thanks to the efforts of Audrey Rough who spoke to administrative staff at St John's. It was agreed that flowers would be sent to the staff member who had helped us.

The Eurobodalla show was happening on the 10th, 11th and 12th of September, and members were invited to display orchids in the show.

The Horticulture Show would be on at the Wesley Centre, also on the 11th and 12th of September, and members were encouraged to enter their orchids. There is a special section for orchids at this show.

The Coffee Club at Bill and Anne Osmand's went well, with a good turn out of novices and more experienced members.

Guest speaker:

The guest speaker of the night was Tupac Otero who has spoken once already at an Orchid Society meeting.

Tupac is from Colombo in South America, and is currently in Canberra doing a postdoctoral fellowship on the fungal associations of tropical orchids.

Initially as a graduate student in Colombo, Tupac studied biology and had a leaning towards studying marine biology. But due to limited spaces, Tupac was placed as a botanist. He was invited to participate on a project studying the pollination of orchids in Colombo. And it is this study on which he spoke.

The study was on the pollination of orchids in Colombo by the euglossine bees. These are small stingless bees, coloured a metallic blue or green, distantly related to the honeybee. But while the honeybees are known for their large co-operative colonies with a single queen, the euglossine bees live in small nests on the backs of leaves, of 5 to 25 individuals, and each lives independently of the other. The females build the small cells from flower resins, and then fill them up with pollen and nectar for the young to feed on. There is no division of labour as there is with honeybees. And each bee can live for up to 6 months, which is a very long time in comparison with other bee species.

The male bee is responsible for much of the orchid pollination, but it is the female that determines his behaviour. The females are very particular when choosing a male mate. They are attracted to the male bee that collects the greatest number of fragrances. So the male bee visits as many flowers as he can, collecting fragrances on brushes on his legs that transfer the scent further along into sponge like parts also on the legs. He will visit non-orchid and orchid flowers, anything that

has a scent – the bees do not need the orchids, but the orchids need the bees. Many of the collected fragrances will often be toxic to other insects but not to the bees. At this point Tupac mentioned that some species of bees had once been found to have collected D.D.T.!

Tupac also described some of the orchids that are pollinated by euglossine bees. One of the most interesting was a *Coryanthes* species. The flower is designed so the bee falls into a pouch containing water, and it cannot fly out. But in the pouch, there is a little step, and that leads through a small tunnel. In here the pollinia are deposited on the bee in a place where he is unable to clean himself. In the next flower the same thing happens and pollination occurs. 5 minutes after pollination, this orchid loses its fragrance.

One of the findings of the study was that more bees occurred where land had been cleared and was being farmed. But of these bees, there was less diversity in the species, though most bees in the forest or in the farm were able to live in both areas. The behaviour of man has a significant impact on the bees, and therefore perhaps the orchids.

Tupac always gives a great talk, can be very funny, and he makes his subject easy to understand for regular people. It was a talk enjoyed by all.

The second part of the meeting:

- Bob Bush once again distributed a fair number of certificates for winning orchids from the society meetings.
- Yvonne Day reminded members to come along to the Coffee Club to be held at her house the following Monday
- Members were reminded of the coming Australasian Show and Conference to be held on the 16th – 19th of September at Campbelltown.

The Show:

- Setting up to start from Friday midday.
- Phone in registrations in the evening a week before please.
- Any questions, phone Jane, Robyn or Bob.
- Plastic bags needed for the sales table – Julie Turner offered to bring in shoeboxes.
- Security. There have in the past been losses from the show. Members requested to wear a nametag or our polo shirt to help maintain a visible presence.
- Entry fee to be raised from \$3 to \$4 – it is still a low fee.
- A request for any orchids on display or otherwise to be kept insect free
- Audrey to be running the kitchen. A request for sandwiches and cakes please.
- Sales – the society will keep 10% of profits from all sales.

July minutes – This was an auction, no need to move or second

August minutes – Moved by Terry Turner and seconded by Robyn Noel

Secretary's report – The regular newsletters and publications were listed and given over to the library.

Moved By Brian Leedham and seconded by Nita Wheeler.

Treasurer's report – The current balance was at \$4593.35. Memberships still coming in. Last month's outgoings were for rent, a deposit for St John's, and some postage and subscription fees. Moved by Anne Osmand and seconded by Mark Fraser.

Raffle winners – Robyn Noel, Paul Tyerman, Jane Wright, Ray Palmer, Jim Harper, Sue Lowe, Bill Ferris.

Door prize – Norma Bush.

Meeting closed around 10.30 pm

Minutes for the October 6th general meeting.

Bob Bush opened the meeting at 8.10 pm.

The sad announcement was made that Gunther Engelberger had passed away that morning. Flowers had been sent to him at the hospice from the show, so he knew we were thinking of him. For those who wish to attend, a funeral service would be held at the crematorium at midday Saturday 8 October. Gunther was such a generous, friendly and social person. He knew and spoke to everybody in the society, and his presence will be greatly missed.

Genera Announcements:

- *The Show* had been a good one and thanks were given to all for participating in everything from bringing in orchids for display to making sandwiches.
- *Coffee club and workshop* and BBQ lunch to be held at Bill and Anne Osmand's the weekend following the November meeting.
- *Coming events* – Iris, Rhododendron and Azalea show. There is an orchid class in this show. Members encouraged enter specimens. To see Robyn for a copy of the schedules for the weekend of 23rd and 24th of October.
- *Trevor Hughes* – at the next meeting it will be time to bring in The Cymbidium 'Margaret Thatcher' that Trevor gave out earlier in the year, and see how they have grown. Or not!
- *Nita Wheeler* was congratulated for her wins with native terrestrials at the ANOS Warrigal show and the ANOS show at Campbelltown.
- *New member* Megan O'Hara was welcomed, along with her mum, Jennifer Chorley.
- *A Happy Birthday* card was signed for Frances Sherriff. Frances and Allan Sheriff are both orchid society members.

Guest Speaker:

The Guest speaker for the night was Ray Clement. Members will know Ray as the owner of Tinonee Orchids, growing native orchids up at Taree on the Manning River.

His subject for this night was on the work being done in hybridizing and improving our native orchids.

First off Ray paid respect to the work being done by botanists in the classification of plants. Many of the native orchids we all know have had name changes, and this can be very confusing and frustrating. But perhaps it was not the place of horticulturists to comment on the work of the botanists, of which most of us understand very little, just as it would be inappropriate for a botanist to make comment on horticultural practices. However, name changes in the orchid world are slow to catch on, and often it was best practice to stick with names that audiences or customers were familiar with. And this was the case with the night's talk.

We were treated to a beautiful slide show of the country side around Taree, Gloucester, and 'The Buckets' – the rocky escarpment behind this country. Tinonee Orchids is situated not far from the Manning River, yet is above the flood line. It is an area that has not had any experience of the current drought that is affecting much of the east coast of Australia, so water supply is not an issue. The nursery is also on land high enough to escape any heavy frosts. The climate though is still quite extreme, with temperatures ranging from –4 to 44 °C. A great deal of heat is reflected off 'The Buckets' in the summer months. 'The Buckets' are well known for *Dendrobium kingianum* orchids, and grow many other orchid species besides. We saw slides of great masses of *Dendrobium speciosum* orchids clinging to rock faces, yellowed and desperate, but surviving all the same. 'The Buckets' were also home to magnificent and huge staghorn ferns – under constant threat from illegal collection.

Following from this introduction to the environment in which many of these orchids were growing, Ray talked about hybridising the native orchids. The work in this area is extremely new and recent, compared with the work that has been done on other orchids from around the world. So the progress being made must be looked at in this light. The qualities that growers look for are plants that are beautiful and easy to grow. So the parent plants for hybrids are chosen for qualities such as vigour, flower colour, number and shape. And not every plant from a species will display the same qualities, so superior forms must be chosen. By crossing plants, it is also possible to increase the range of conditions in which they can be grown. This in turn can also extend the flowering season.

A fantastic example Ray gave was *Dendrobium speciosum* var. *curvicaule* 'Daylight Moon'. This hybrid is the first Australian native species to be awarded with the First Class Certificate. The winning example produced 7 stems, each holding around 720 flowers, giving a beautiful foxtail effect.

Often the initial results of hybridizing are not spectacular, but as mentioned before, this work is still in the early stages. As the hybrids are continually worked and crossed again and again, more and more improvements are seen. Seedling variation though is still often a problem.

Ray showed us lots and lots of slides of hybrids. It was surprising to see what could be crossed, such as the smallish *Dendrobium tetragonum* with the very large and chunky *Dendrobium speciosum*. We were particularly tortured with pictures of enormous flowering specimens of *Dendrobium speciosum*. Ray described the potting media he used – a pine bark obtained from “Aus-Gro” in South Australia, which he rinses, and sometimes adds perlite or diatomite. He stressed the need for good air movement. It was a great talk and slide show, and afterwards Ray had lots of his orchids to sell. Hybridising is certainly a very fascinating side of the orchid world.

2nd half of the meeting:

Secretary's report: Newsletters for the library – Wagga Wagga (Aug), Albury/Wodonga (Sept. and Aug.) and schedule for show in Oct., Campbelltown (Jul. and Oct.), Orchid Society of N.S.W. (Aug), Gosford and district (Sept), Australasian Native Orchid Society (Oct), Sapphire Coast Orchid Club (Sept), and publications - American Orchid Society (Jul), The Alpine Gardener (Sept), The Orchid Digest (Jul., Aug., Sept.) Also information on events at Parliament House, including garden tours, and a DVD of the 16th Australasian Orchid Council Conference. Proceedings and pictures.

Report was moved by Jane and Seconded By Brian.

Treasurer's report: The current bank balance at \$14011.64, though after costs from the show, there would be about \$7700.14 left. Report moved by Theo Schutz and seconded by Sheila Cudmore.

Other Business:

The Show: It was recognized that there was a real need to have more people willing to give demonstrations at the show. The coming workshop at Bill and Anne Osmand's would be a good opportunity for people to learn what to say and do for repotting demonstrations. Not a lot of novice growers brought plants to this years show; perhaps it was a lack of confidence. Theo Schutz said that down at the coast, he would go to new members houses, and point out what was suitable. We should consider doing this, to give the novice growers more confidence to bench their plants.

It was good to see so many polo shirts and name tags at the show. It gave a good presence.

Coffee Club: with workshop to be at Bill and Anne Osmand's the following weekend from the next general meeting. Need to bring own plants, pots, potting mix, chair etc.

Raffle winners: John Growder, Yvonne Fuller, Kenneth Turner, Bill Ferris, Ben Walcott, Theo Schutz.

Door prize: Ray Palmer.

The meeting closed at about 10.45 pm

Journal Reviews

Orchids Australia (August 2004)

An article by Gary Hart describes the culture of species paphiopedilums. Marilyn Light provides a summary of the Second International Orchid Preservation Conference held in Sarasota, Florida in May 2004. John Richards describes some of the terrestrial orchids found in the Halls Gap area (Wimmera, Victoria). Peter Taylor writes about one of the first Paphiopedilums he imported in the 70's (*Paphiopedilum sukhalii*), and how this orchid kindled his interest in this species. An article by Richard Fishlock discusses the orchids displayed at the Chelsea Flower Show. An article (with pictures) discusses the nominations made by each state and territory for the 2003 “Orchid of the Year”.

The Orchid Review (Sept-Oct 2004)

An article describes (with pictures) the orchids awarded by the RHS. Joyce Stewart reviews the plans that have been made for the 18th World Orchid Conference, to be held in Dijon in March 2005. Rob Bock argues that miniature orchids can also be beautiful. Other articles describe (a) *Dendrobium numaldeorii*, a new species from India (b) the genus *Porroglossum*, and (c) the genus *Cryptopus*. Nadia Wright re-examines the origins of *Vanda Miss Joaquim*. John Heathcote continues his series on orchid growing, with a discussion of heat requirements. Keith Andrew discusses the limitations of line breeding in producing orchid hybrids. Eric Christenson discusses an attractive clone of an Asian species *Nephelaphyllum pulchrum*. Theo Dengal writes about orchids seen during a recent visit to Costa Rica.

The Orchadian (September 2004)

Dick Thompson writes about the techniques and strategies involved in the deflasking of temperate deciduous terrestrial orchids. Murray Corrigan presents a brief history of the formation of ANOS in the Sydney, Newcastle, Warringah area. David Jones writes about a new species from north-eastern NSW, *Corybas doweringii*. Alan Logan writes an update on a rare moisture-loving terrestrial orchid, *Habenaria harroldii*.

Australian Orchid Review (Aug/Sept 2004)

Doug Matters writes about phragmipediums and their culture. Brian Milligan discusses orchids for the outdoors in Southern Australia. Graeme Banks discusses the treatment of black spots on paphiopedilums. Jim Cootes and David Banks combine to write about *Bulbophyllum annandalei* and *Bulbophyllum bicolor*, which they describe as a delightful duo. David Banks provides some notes on the Genus *Coilostylis*. Murray Shergold discusses the growth of, and benefits from the use of sphagnum moss. Ray Dix writes of his experiences in hybridizing red cymbidiums. Rob and Noe Smith, and Dean Roesler write about the breeding of *Cymbidium suave* and other Australian native cymbidiums.

Orchids (AOS).

Ken Slump writes about the various ingredients used in making a potting mix for orchids. Susan Jones writes about neem oil, and its insecticidal properties. An article

by Marni Turkei discusses the cultivation of *Rossioglossum grande*. An article on *paphiopedilums* (with many beautiful photos) describes the habitats and wide range of colours and patterns available in these orchids. Another article previews Dijon, the site of the 18th World Orchid Conference to be held March 11 to 20 2005. Thomas Etheridge describes (with photos) 21 orchids awarded by AOS in 2003. Susan Jones writes about *Masdevallia* hybrids (again with photos), and Eric Christenson discusses the taxonomy of *Maxillaria luteo-grandiflora*.

The Orchid Review (July/Aug 2004)

Articles cover the following subjects : the RHS International Orchid Show 2004 (including Awards granted); The Quito Orchid Show Feb 2004; a new variety of *Ophrys apifera*; the genus *Oceonia*; orchids found on a visit to Belize; unusual orchids of Ethiopia; the Asia Pacific Orchid Conference, Taiwan, March 2004; an appreciation of fragrant orchids; and some vandoid orchids of the Subtribe *Aeridinae*.

Orchids South Africa 2004

This annual publication lives up to its very high reputation. Apart from an extensive article (with photos) on the history, habitat and culture of unifoliate *Cattleya* species, and descriptions (with photos) of the awards made by the SAOC in 2003, there are other articles on the growth of keikis on African orchids; some orchids found on the South African Veld: the culture of *Bulbophyllum ipanemense*; epiphytic orchids in garden trees; two new *Leptotes* species from Brazil; the growing of hardy, evergreen *Calanthe*; the 12th SAOC National Show and Conference held in Pietermaritzburg in 2003; orchid seeds and their germination; viewing *Paphiopedilum bellatulum* in the wild; modern breeding trends in **Australian Dendrobiums**; *Guarianthe* – a new generic name for the *Cattleya skinneri* complex (inc. *C. aurantica*, *C. bowringiana*, and *C. patinii*); and *Vanda sanderiana*, and its influence on Vanda breeding.

Orchids (AOS) May 2004

Major articles relate to the cultivation of stanhopeas; the watering of vandas; the elimination of weeds in potting mixes; the history, taxonomy and culture of *Podangis dactyloceras*; the culture of *Dendrobium cuthbertsonii*, *Brassia* intergeneric hybrids and *Sophronitis*; mounting orchids in half a coconut shell; methods for leaching salts from potting mixes; and the treatment of fungus and moulds in orchids.

Brian Leedham

The Orchid Coffee Club

The last coffee club was held at Yvonne Day's home and I'm told that everyone had a great social time. The next one will be scheduled for early next year.

Workshop & BBQ Lunch: 7 Nov 04

The Orchid Society of Canberra invite you to attend the annual workshop and barbecue lunch, to be held at the home of Bill & Ann Osmand, 3 Tuck Place, Richardson on Sunday, 7th November, 2004 commencing at 10am

Activities for the workshop include:

- **Learn to repot an orchid** – Bring along an orchid, a couple of spare pots, and potting mix.
- **Help with pests and/or diseases** – Place your plant in a plastic bag so it can be isolated from other plants. Other growers will help you identify the problem and suggest ways to control the problem.
- **Listen, look and learn** - Join in with questions and answers, it will help everyone to learn more about growing orchids.

For the barbecue, please bring:

- Meat and drinks
- A salad or sweet to share
- A chair

Enquiries to Bill and Ann Osmand on 6291 5063 (evenings)

Orchid Society Spring Show 25-26 September 2004

The show was a great success once again. Congratulations to the show winners and to the society for pulling off another outstanding event.

Thanks (in no particular order) to: the OSNSW judges who once again, made all the correct decisions, our 3 commercial vendors (Dennis Diehm, Trevor Hughes and Rob Pollock) who added so much wonderful stock to the sales table, Robyn Noel for all the finances and bookings, Yvonne Day for chasing up sponsors, Audrey Rough and her team for the excellent catering, Mark Fraser and Ben Wallace for being the show marshals, Gerlinde Lenz for organising the volunteers, Barbara Corsini for the correspondence with the judges and advertising, Brian Leedham for the window at the Griffin Centre, Laurie Woods and Rob Rough for the street signs, and so many others who provided cakes and sandwiches, worked on the door, raffle and sales table, talked to the public, did potting demos, helped set up and take down, put flyers up at their workplaces and most importantly, who brought their plants in to display. THANK YOU! Many hands made light work.

Photos in the Jan/Feb bulletin (no space this time!)

Jane Wright, Show Convenor

CROSSWORD No 13 by Dennis Drobe

This crossword has no clues. Three letters are given to get you started. Every letter of the alphabet is used.

24	2	24	23	14	6	24	13	15	14	9	10	22
		13		15				14				2
7	16	2	17	13		4	6	1	20	9	13	1
6		18		2	5	2		24				15
12	6	1	13	1		22	2	9	2	14	1	13
25			24			1		2		6		8
13	13	16	14	13				19	10	7	7	2
15		6		9		20			25			9
13	21	20	16	13	22	13		22	6	5	10	9
16				22		2	5	6		13		14
2	3	2	18	13	12	1		8	2	12	15	2
20				12				14		16		
13	11	10	14	20	2	26	9	13	12	13	1	1

A	B	C	D	E	F	G	H	I	J	K	L	M
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N	O	P	Q	R	S	T	U	V	W	X	Y	Z
						20				21		

Horticultural Society of Canberra Show Spring Exhibition and Rose Show

Saturday 13 Nov (noon-5pm), Sunday 14 Nov (11:30-4pm). Lancaster Hall at Wesley Uniting Church, Fitzroy Street between National and Dominion Circuits, Griffith.

Members are encouraged to enter their orchids in the classes organized specifically for the Orchid Society. The procedure for entering plants is:

1. By 8pm on the Thursday preceeding the show (11 Nov), phone Mrs. Linn Doyle (02) 6231 7755, and tell her how many plants of each category you plan to enter. Note that you must have owned and been in possession of the orchids for at least 6 months.
2. Bring your plants to Lancaster Hall for staging on Friday (6-10pm) or Saturday (7:30-10am). There is a 10 cent charge for each entry.
3. If you win any prizes, your winnings (1st \$1, 2nd 50c) must be collected before the show closes. Uncollected money will revert to the Horticultural Society.
4. Collect your plants immediately the show closes at 4pm on Sunday. The speed at which this Society can pull down a show is awesome!

You are welcome to enter flowers in any of the categories: if you are interested, pick up a schedule at the meeting in September.

The orchid classes are:

- 127 One cymbidium
 - 128 One standard cattleya
 - 129 One intermediate cattleya
 - 130 One miniature cattleya
 - 131 One paphiopedilum
 - 132 One vandaceous alliance
 - 133 One oncidium alliance
 - 134 One native orchid
 - 135 One pleurothallid alliance
 - 136 Any other orchid species
 - 137 Any other orchid hybrid
- Champion Orchid: Ribbon plus \$2.

Orchid Workshop March 2005

We will be hosting an Orchid Weekend Workshop in Canberra over the weekend of 19/20 March 2005 at the Sundown Motel Resort in Narrabundah.

Clive Halls of Mt Beenak Orchids and Wayne Turville of The Australian Orchid Nursery will be our guest presenters. Clive Halls sells an enormous range of cool-growing orchids, and Wayne specialises in Australian natives. In addition to speaking on the trends in hybridising and on orchid culture, Clive and Wayne will have many beautiful orchids for sale.

The format will be morning and afternoon presentations on Saturday, starting about 10 am, and a morning session on Sunday, and closing with lunch on Sunday. Teas and lunches are included in the registration fee of \$50. Dinner on Saturday evening at the Sundown Motel Bistro will be at the expense of participants.

Registration leaflets will be available at the next meeting and in the February bulletin, as well as off the web (mid-Nov-ish).

GOING OVERSEAS and you want to BRING BACK ORCHIDS ? YOU CAN!!!

Non- commercial consignments of **orchid tissue cultures** are exempt from import permits. You are allowed to import up to six flasks of tissue cultures without paying for an import permit and a quarantine and inspection fee.

The following conditions apply to non-commercial consignments imported through our international airports.

- import permit not required
- person importing them must accompany the tissue cultures
- tissue cultures must be grown in an aseptic non-animal based medium in a closed rigid container that is transparent enough for its contents to be inspected and must have been grown only in that medium and container
- tissue cultures must be labelled with scientific names

- there are no restrictions on the number of plants that each container may contain
- there is no restriction on the size of the container

If the above requirements have been met the tissue cultures are inspected at the airport for any contamination. If no contamination is found the consignment is released.

It would be nice if someone could bring back tissue cultures of European and/or North American Cypripediums. They would do well in a woodland condition in our Canberra climate.

For more information search the Australian Quarantine Inspection Service (AQIS) import conditions data base (ICON) at www.aqis.gov.au/icon

Hans de Vries

CROSSWORD No 12 SOLUTION

P	A	R	T	I	N	G		S	W	A	P	
R			O			R	I	A		C		O
E	N	C	O	M	I	A		P	R	I	O	R
S		H		O		V	A	R		D		C
I	D	A		U	N	I		O	M	A	G	H
D		T		N		T	A	P		N		I
E		T	E	T		A		H	U	T		D
N		A		A	I	T		Y		H		A
T	O	N	D	I		I	S	T		E	T	C
I		O		N	E	O		I		R		E
A	B	O	R	T		N	E	C	H	A	K	O
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	W	A	S	P		L	I	P	A	R	I	S

Epiphytic Orchid Roots by Lynne Phelan

Epiphytic orchids are found in nature growing on other plants but they are not parasitic, they simply use the other plant as a host. Usually the host is a tree. The roots of epiphytic orchids are quite different to the roots of other plants. This is related to the reason that orchids adopted epiphytism as a survival mechanism. Strong competition for light exists in tropical and subtropical forests so growing up high in a host tree allows the orchids exposure to high light levels as well as air currents to disperse seed and floral scents. The disadvantages of epiphytism are that moisture is lost rapidly in the forest canopy, nutrients are in short supply and aerial roots are subject to UV radiation and desiccation. To overcome these disadvantages epiphytic orchids have specially adapted roots. Understanding the nature and function of these roots will help you provide the right cultural conditions for your epiphytic orchids.

Epiphytic orchid roots are often thick and mostly white. They consist of a thin inner core and an outer absorbent layer of thick-walled cells that are dead at maturity. This layer is called the velamen and it serves a number of

important functions for the orchid. The velamen covers the whole root apart from the first few millimetres of the green growing tip. It protects the inner, living root tissue from exposure, desiccation and pathogens – bacteria, fungi and viruses. Where the velamen comes into contact with the bark of its host it forms a layer of adherent cells which attach the plant very firmly to its support. The velamen also assists in the trapping and uptake of water and nutrients. Roots often have an important respiratory function and some orchids rely primarily on their roots for photosynthesis, having small or, even, no leaves.

In monopodial orchids, such as *Vanda* or *Angraecum*, the roots emerge from the stem and seldom need to go underground. If these orchids are grown in a container the roots must be allowed to dry out between waterings so the medium should have excellent drainage and allow for adequate aeration of the roots inside the pot. Big, chunky bark or a bark and stone mix will usually do. The velamen usually changes from shiny white to light green when it is wet. Simply wetting the roots until they begin to change colour is not enough; you need to continue watering after this initial colour change to ensure that the spongy cells absorb sufficient water and nutrients. Then let the plant dry out until the roots resume their dry, whitish colour.

In sympodial orchids, such as *Cattleya* or *Cymbidium*, the roots develop from the rhizome and new roots emerge some time after a new growth has started. The roots are not permanent and old roots die naturally to be replaced by those from the new growth. Though we grow most of these in containers they originally grew epiphytically so we need to ensure that the medium allows the roots to dry out fairly quickly after watering. When roots stay saturated the velamen ‘drowns’ and becomes squashy allowing rot to kill the living root tissue. When repotting remove all dead and damaged roots because, if the velamen is broken, pathogens can enter and infect the plant. Roots are extremely important to an orchid and, if they are killed through overwatering, the plant has to exist on its reserves of food and moisture until it makes a new growth and new roots emerge. This can take months and the plant is inevitably seriously set back with the pseudobulbs shrivelling and leaves drooping. Sometimes we can mistake these symptoms for the plant drying out and so we give it even more water, thus adding to the plant’s stress and in all probability killing it. If an orchid looks unhappy the first thing to do is tip it out of its pot and check its roots. If the velamen is brown and soggy it’s a sure sign that the conditions have not been correct. Repot it and keep it barely damp until new roots emerge. Regular misting of the foliage may help prevent further dehydration.

**ORCHID SOCIETY OF CANBERRA
SPRING SHOW 2004 RESULTS**

Champion Orchid of the Show	<i>Cymbidium</i> Jubilation 'Geronimo'	Trevor Hughes
Reserve Champion Orchid	<i>Masdevallia ignea</i>	Jane Wright
Champion Display		Brian and Lynne Phelan
Champion Species Orchid	<i>Masdevallia ignea</i>	Jane Wright
Champion Hybrid Orchid	<i>Cymbidium</i> Jubilation 'Geronimo'	Trevor Hughes
Champion Cattleya Alliance	<i>Cattleya amethystoglossa</i>	Brian and Lynne Phelan
Champion Cymbidium	<i>Cymbidium</i> Jubilation 'Geronimo'	Trevor Hughes
Champion Australian Native Orchid	<i>Dendrobium trilamellatum</i>	Bob Evans
Champion Paphiopedilum Alliance	<i>Paphiopedilum</i> Venture 'Sunglow' x <i>sukhakulii</i> 'Dream On'	Rob Pollock
Champion Vandaceous Alliance	<i>Sartylis</i> Blue Knob 'T.J' HCC/ACC	Brian and Lynne Phelan
Champion Oncidium Alliance	<i>Odontioda</i> Eric Young ('49S' x 'Toms')	Brian and Lynne Phelan
Champion Pleurothallid Alliance	<i>Masdevallia</i> Starfire '50'	Theo and Jenny Schutz
Champion Any Other Orchid	<i>Lycaste</i> Shoalhaven 'Lady Kay' x <i>Anguloa</i> Gwenneth	Theo and Jenny Schutz
Champion Specimen Orchid	<i>Pterostylis curta</i>	Nita Wheeler
Champion Seedling	<i>Masdevallia</i> Aquarius 'Avalon' x <i>triangularis</i> 'Hawk Hill'	Theo and Jenny Schutz
Best Orchid Benchd by a Novice Clubmember	<i>Sarcochilus falcatus</i>	Eddy Collett
Best Floral Arrangement	Rust and Corrosion	Audrey Rough
Best Exhibit: Art	<i>Thelymitra</i> wall hanging	Pat Parker
Best Exhibit: Craft	Hand decorated emu egg	Leanda O'Connor
Best Exhibit: Photography	<i>Bulbophyllum</i> sp. in the Singapore Botanic Gardens	Eddy Collett
Most pleasingly fragrant orchid hybrid	<i>Cattleya</i> Olief Peggy May (=Summer Stars x High Light 'Angel Wings')	Robert Rough
Popular Vote	<i>Wilsonara</i> Widicombe Fair	Brian and Lynne Phelan
Most Successful Exhibitor		Brian and Lynne Phelan

Class	Description		Plant	Owner
Section A: Displays				
1	Tabletop display 1.2 m wide	1	Colour Parade	Rob and Audrey Rough
2a	Tabletop display 0.5 m wide: 4 plants of 1 group	1		Brian and Lynne Phelan
		2		Jane Wright
2b	Tabletop display 0.5 m wide: 4 plants of different groups	1		Brian and Lynne Phelan
		2		Jane Wright
3	Tabletop display in container	1		Jane Wright
Section B: Open Classes				
4	Cymbidium species	1	<i>Cymbidium aloifolium</i>	Brian and Lynne Phelan
5	Cymbidium - Standard	1	<i>Cymbidium</i> Jubilation 'Geronimo'	Trevor Hughes
		2	<i>Cymbidium</i> Valley Splash 'Awesome'	Trevor Hughes
6	Cymbidium - Intermediate	1	<i>Cymbidium</i> Bulbarrow 'Friar Tuck'	Rajani Rai
7	Cymbidium - Miniature	1	Cymbidium Midnight Muffet 'Spotted Dog'	Trevor Hughes
		2	<i>Cymbidium</i> Touchstone 'Janis'	Rajani Rai
8	Cymbidium - Primary hybrid	1	<i>Cymbidium</i> Pumilow 'Florshow'	Brian and Lynne Phelan
		1	<i>Cymbidium</i> Rosefieldense	Rajani Rai

10	Cymbidium - Best specimen	1	<i>Cymbidium</i> Midnight Muffet 'Spotted Dog'	Trevor Hughes
11	Cattleya species	1	<i>Cattleya amethystoglossa</i>	Brian and Lynne Phelan
		2	<i>Cattleya loddigessii</i> 'Martinique' x self	Rob and Audrey Rough
12	Other Laeliinae species	1	<i>Laelia harpophylla</i>	Rob and Audrey Rough
		2	<i>Rhyncholaelia glauca</i>	Ben Wallace
14	Laeliinae Hybrid - Midi	1	<i>Cattleya</i> Summer Stars x <i>Cattleya</i> High Light 'Angel Wings'	Rob and Audrey Rough
		2	<i>Sophrolaeliocattleya</i> Elegant Oak	Rob and Audrey Rough
15	Laeliinae Hybrid - Miniature	1	<i>Cattleya</i> Snowblind x <i>Sophrocattleya</i> Beaufort 'Luna Roussa'	Rob and Audrey Rough
		2	<i>Sophrolaeliocattleya</i> Tangerine Jewel x <i>Laelia rupestris</i>	Rob and Audrey Rough
16	Laeliinae Hybrid - Cluster	1	<i>Laeliocattleya</i> Trick or Treat 'Orange Beauty' x self	Rob and Audrey Rough
18	Laeliinae - Best specimen	1	<i>Sophronitis coccinea</i> 'Xanthina' x 'Red'	Brian and Lynne Phelan
20	Dendrobium speciosum complex - species	1	<i>Dendrobium speciosum</i> var <i>pedunculatum</i> 'Herberton' x <i>speciosum</i> 'Windermere'	Murray Smith
		2	<i>Dendrobium (speciosum) tarberi</i>	Brian and Lynne Phelan
21	Australian Dockrillia species	1	<i>Dockrillia linguiforma</i>	David Judge
		2	<i>Dockrillia linguiforma</i>	Jane Wright
22	Other Australian native Dendrobium alliance species	1	<i>Dendrobium trilamellatum</i>	Bob Evans
		2	<i>Tropilis aemula</i>	Ben Wallace
23a	Australian Dendrobium alliance hybrid - derived from Den kingianum	1	<i>Dendrobium</i> Aussie Zest x Star of Gold	Bill Keeley
		2	<i>Dendrobium</i> Alpha Centauri x <i>Dendrobium</i> Aussie Ira	Murray Smith
23b	Australian Dendrobium alliance hybrid - not derived from Den kingianum	1	<i>Dendrobium</i> Elegant Heart x Rathking 'Dark Lip'	Rob and Audrey Rough
		2	<i>Dendrobium</i> Andrew Persson	Theo and Jenny Schutz
24	Native vandaceous species	1	<i>Sarcochilus falcatus</i>	Ben Wallace
25	Native vandaceous hybrid	1	<i>Sarcochilus</i> Fitzhart 'Barbie' x Hot Ice 'Rich Port'	Rob and Audrey Rough
		2	<i>Sarcochilus</i> Fitzhart 'Leigh' x <i>fitzgeraldii</i> 'Rose'	Rob and Audrey Rough
27a	Australian native terrestrial species	1	<i>Glossodia major</i>	Nita Wheeler
		2	<i>Pterostylis curta</i>	Nita Wheeler
29	Australian native - best specimen	1	<i>Pterostylis curta</i>	Nita Wheeler
30a	Paphiopedilum species	2	<i>Paphiopedilum moquettianum</i>	Jane Wright
		1	<i>Paphiopedilum hirsutissimum</i>	David Judge
31	Paphiopedilum hybrid - classical	1	<i>Paphiopedilum</i> unknown	David Judge
		2	<i>Paphiopedilum</i> White Knight	Rob Pollock
32a	Paphiopedilum hybrid - Maudiae type	1	<i>Paphiopedilum</i> Raisin Jack	Jane Wright
32b	Paphiopedilum hybrid - other	1	<i>Paphiopedilum</i> Venture 'Sunglow' x <i>sukhakulii</i> 'Dream On'	Rob Pollock
		2	<i>Paphiopedilum</i> St Swithins	Terry and Jules Turner
32c	Phragmipedium hybrid	1	<i>Phragmipedium</i> Don Wimber	Jane Wright
34	Paphiopedilum - best specimen	1	<i>Paphiopedilum</i> unknown	David Judge
35	Vandaceous alliance species	1	<i>Renanthera citrina</i>	Ben Wallace
		2	<i>Rhynchostylis gigantea</i>	Rob Pollock
37a	Phalaenopsis hybrid - standard	1	<i>Phalaenopsis</i> unknown	Terry and Jules Turner

		2	<i>Phalaenopsis</i> I-Hsin Calpine x <i>Doritaenopsis</i> Taisuco Firebird	Terry and Jules Turner
37b	Phalaenopsis hybrid - novelty	1	<i>Phalaenopsis</i> Miva Cannelle 'Picador'	Terry and Jules Turner
		2	<i>Doritaenopsis</i> Sogo Cherry	Jane Wright
41	Vandaceous alliance - best specimen	1	<i>Phalaenopsis</i> Maui Queen	Terry and Jules Turner
42a	Oncidium complex species	1	<i>Oncidium fuscatum</i>	Bob Evans
42b	Oncidium complex -hybrid	1	<i>Oncidium</i> Liz 'Full Moon'	Brian and Lynne Phelan
43a	Odontoglossum Alliance - species	1	<i>Osmoglossum pulchellum</i>	Theo and Jenny Schutz
		2	<i>Osmoglossum pulchellum</i>	Geoff Dyne
43b	Odontoglossum Alliance - hybrid	1	<i>Odontioda</i> Eric Young ('49S' x 'Toms')	Brian and Lynne Phelan
		2	<i>Odontioda</i> (Aloette x Pacific Gold) x <i>Odontioda</i> Joe's Drum	Brian and Lynne Phelan
44b	Other Oncidium Alliance - hybrid	1	<i>Wilsonara</i> Widdicombe Faire	Brian and Lynne Phelan
		2	<i>Miltonia</i> Martin Orenstein 'Fireworks'	Brian and Lynne Phelan
46	Oncidium Alliance - Best specimen	1	<i>Wilsonara</i> Widdicombe Faire	Brian and Lynne Phelan
47a	Pleurothallid Alliance - <i>Masdevallia</i> species	1	<i>Masdevallia ignea</i>	Jane Wright
		2	<i>Masdevallia posadae</i>	Theo and Jenny Schutz
47b	Pleurothallid Alliance - Species - not <i>Masdevallia</i>	1	<i>Dryadella zebrina</i>	Jane Wright
48a	Pleurothallid Alliance - Hybrid including <i>Masdevallia veitchiana</i>	1	<i>Masdevallia</i> Towering Inferno	Theo and Jenny Schutz
		2	<i>Masdevallia</i> Copper Angel 'Highland'	Theo and Jenny Schutz
48b	Pleurothallid Alliance - Hybrid not including <i>Masdevallia veitchiana</i>	1	<i>Masdevallia</i> Starfire '50'	Theo and Jenny Schutz
		2	<i>Masdevallia</i> Bella Donna 'Prima'	Theo and Jenny Schutz
48c	Pleurothallid Alliance hybrid - not including <i>Masdevallia</i>	1	<i>Restrepia striata</i> x <i>rankisteria</i>	Jane Wright
49	Pleurothallid Alliance - best seedling	1	<i>Masdevallia</i> Aquarius 'Avalon' x <i>triangularis</i> 'Hawk Hill'	Theo and Jenny Schutz
50	Pleurothallid Alliance - Best specimen	1	<i>Masdevallia</i> Copper Angel 'Highland'	Theo and Jenny Schutz
51	Exotic Dendrobium Alliance species	1	<i>Callista jenkinsii</i>	Ben Wallace
		2	<i>Pedilonum</i> aff. <i>dichaeoides</i>	Ben Wallace
52	Coelogyne species	1	<i>Coelogyne tomentosa</i>	Don Chesher
		2	<i>Coelogyne xyrekes</i>	Don Chesher
53	Any other species	1	<i>Gongora truncata</i>	Jane Wright
		2	<i>Bulbophyllum grandiflorum</i>	Ben Wallace
54	Exotic Dendrobium Alliance hybrid	1	<i>Dendrobium</i> Dal's Pride 'Algerster' x <i>Dendrobium</i> Dal's Wonder 'Bette'	Terry and Jules Turner
56	Any other hybrid	1	<i>Lycaste</i> Shoalhaven 'Lady Kay' x <i>Anguloa</i> Gwenneth	Theo and Jenny Schutz
		2	<i>Zygopetalum</i> Arthur Elle 'Stonehurst' AM/RHS x self	Brian and Lynne Phelan
58	Any other orchid - best specimen	1	<i>Bulbophyllum grandiflorum</i>	Ben Wallace
Section C: Novice Classes				
63	Australian Dendrobium Alliance species	1	<i>Dendrobium tetragonum</i>	Bob Bush
		2	<i>Dendrobium tetragonum</i>	Bob Bush
65	Other Australian native species or hybrid native	1	<i>Sarcophilus falcatus</i>	Eddy Collett
		2	<i>Sarcophilus falcatus</i>	Eddy Collett
66	Australian Native Orchid - best specimen	1	<i>Pterostylis curta</i>	Leanda O'Connor
73a	Other oncidium Alliance species	1	<i>Oncidium ornithorhynchum</i>	Bob Bush
76	Any other species	1	<i>Coelogyne cristata</i>	Eddy Collett

		2	<i>Dendrobium aphyllum</i>	Kenneth Turner
77	Any other hybrid	1	<i>Zygopetalum</i> unknown	Bob Bush
79	Best specimen plant grown by a novice	1	<i>Sarcochilus falcatus</i>	Eddy Collett
Section E: Floral Decoration				
81	Open section	1	Celebrate	Audrey Rough
		2	Celebrate	Audrey Rough
82	Open section	1	Rust and Corrosion	Audrey Rough
		2	Rust and Corrosion	Rob Rough
84	Junior section	1	Noone suspects the Butterfly	Angela Wallace
Section F: Art & Photography				
86	Craft	1	<i>Thelymitra</i> wall hanging	Pat Parker
		2	Hand decorated emu eggs	Leanda O'Connor
87a	Photography - studio work	1	<i>Lepanthes</i> sp.	Jane Wright
		2	<i>Lepanthes</i> sp.	Jane Wright
87b	Photography - field work	1	Bulbophyllum sp. Singapore Botanic Gardens	Eddy Collett
		2	Orchid species - Singapore Botanic Gardens	Eddy Collett
87c	Photography - Enhanced	1	Enhanced photograph	Mark Fraser and Sandra Corbett
87c	Photography - Enhanced	2	Enhanced photograph	Murray Smith

Horticultural Society Spring Bulb and Camellia Show 11-12 September 2004				
Champion Orchid		<i>Paphiopedilum sukhakulii</i>		David Judge
228	One standard cymbidium	1	<i>Cymbidium</i> Rosefieldense	Rajani Rai
229	One intermediate cymbidium	1	<i>Cymbidium</i> Bulbarrow 'Friar Tuck'	Rajani Rai
		2	<i>Cymbidium</i> Devon Lord 'Viceroy'	Bob Bush
230	One miniature cymbidium	1	<i>Cymbidium</i> Dr Baker 'Hyacinth'	Jane Wright
		2	<i>Cymbidium</i> Sarah Jean 'Peach'	Rajani Rai
231	One cattleya	1	<i>Cattleya loddigesii</i>	Rob Rough
		2	<i>Cattleya intermedia</i> var <i>amethystina</i>	Rob Rough
232	One paphiopedilum	1	<i>Paphiopedilum sukhakulii</i>	David Judge
		2	<i>Phragmipedium</i> Don Wimber	Jane Wright
233	One vandaceous alliance	1	<i>Doritaenopsis</i> Leonard Prince x Talsuco Firebird	Jane Wright
234	One oncidium alliance	1	<i>Oncidium ornithorhynchum</i>	Bob Bush
		2	<i>Odontocidium</i> Bucton 'Marie's Choice'	Rob Rough
235	One native dendrobium	1	<i>Dockrillia linguiformis</i>	Jane Wright
		2	<i>Dendrobium</i> Elegant Heart x Rathking	Rob Rough
236	Any other Australian native orchid	1	<i>Sarcochilus</i> Red Cascades (=Pinky x <i>fitzgeraldii</i>)	Brian Leedham
		2	<i>Sarcochilus</i> Melba	Rob Rough
237	One coelogyne alliance	1	<i>Coelogyne</i> Unchained Melody	Bob Bush
		2	<i>Coelogyne cristata</i>	Rob Rough
238	Any other orchid	1	<i>Dryadella zebrina</i>	Jane Wright
		2	<i>Restrepia striata</i> x <i>rankesteria</i>	Jane Wright

Horticultural Society Iris, Rhododendron & Azalea Show
23-24 October 2004

Champion Orchid		<i>Laeliocattleya</i> Chit Chat 'Tangerine'	Brian Leedham
145 One cymbidium	1	<i>Cymbidium</i> unknown hybrid	Jane Wright
	2	<i>Cymbidium</i> unknown hybrid	Robyn Noel
146 One standard cattleya	1	<i>Cattleya</i> Margaret Degenhart 'Saturn'	Brian Leedham
147 One intermediate cattleya	1	<i>Iwanagara</i> Appleblossum 'Hihimanu'	Brian Leedham
	2	<i>Cattleya intermedia</i>	Jane Wright
148 One miniature cattleya	1	<i>Laeliocattleya</i> Chit Chat 'Tangerine'	Brian Leedham
149 One paphiopedilum	1	<i>Paphiopedilum philippinense</i> var <i>roebelinii</i> 'Just Magic'	Terry & Julianne Turner
	2	<i>Paphiopedilum</i> Billy Cardalino	Terry & Julianne Turner
150 One vandaceous alliance	1	<i>Phalaenopsis</i> Brother Little Heart (=Be Tris 'Brother' x <i>amabilis</i>)	Terry & Julianne Turner
	2	<i>Phalaenopsis</i> unknown hybrid	Terry & Julianne Turner
151 One Australian native	1	<i>Dendrobium discolor</i>	Mark Fraser & Sandra Corbett
	2	<i>Sarcophilus</i> Heidi	Brian Leedham
153 One pleurothallid alliance	1	<i>Masdevallia sanctae-inesae</i>	Jane Wright
154 Any other orchid species	1	<i>Dendrobium primulinum</i>	Mark Fraser & Sandra Corbett
	2	<i>Coelogyn cristata</i>	Robyn Noel
237 Any other orchid hybrid	1	<i>Spathoglottis chrysantha</i> x <i>Kamehameha</i>	Brian Leedham
	2	<i>Phragmipedium</i> Don Wimber	Jane Wright

Popular Vote September 2004

Vandaceous Alliance	<i>Vanda</i> Mary Catherine Bowman (= <i>Vanda</i> Onomea x Rothschildiana)	Bob Evans
Oncidium Alliance species	<i>Oncidium ornithorhynchum</i>	Norma Wood
Oncidium Alliance hybrid	<i>Odcdm.</i> Bucton 'Marie's Choice'	Rob Rough
Laeliinae species	<i>Encyclia polybulbon</i>	Don Chesher
Laeliinae hybrid – miniature	<i>C.</i> Quasar 'No. 10' x <i>L. crispata</i>	Rob Rough
Laeliinae hybrid – intermediate	<i>Sc.</i> Dal's Tradition (= <i>C.</i> Horace x <i>Sc.</i> Beaufort)	Rob Rough
Laeliinae hybrid – standard	<i>Blc.</i> Esmeralda 'Heritage'	Rob Rough
Australian Dendrobium species	<i>Dockrillia teretefolia</i>	Ben Wallace
Australian Dendrobium hybrid	<i>Dendrobium</i> unknown	Rob Rough
Masdevallia	<i>Masdevallia</i> Harlequin x <i>decumana</i>	Murray Smith
Coelogyne	<i>Coelogyne flaccida</i>	Brian Leedham
Paphiopedilum species	<i>Paphiopedilum sukhalukii</i>	David Judge
Australian Terrestrial	<i>Diuris sulphurea</i>	Nita Wheeler
Cymbidium	<i>Cymbidium</i> Dr Baker 'Hyacinth'	Jane Wright
Any other orchid	<i>Bulbophyllum echinolabium</i>	Terry Turner
Orchid of the Night No.1	<i>Bulbophyllum echinolabium</i>	Terry Turner
Orchid of the Night No.2	<i>Dendrobium</i> unknown	Rob Rough
Judges' Choice: Species	<i>Dendrochilum</i> ??????????????	Don Chesher
Judges' Choice: Hybrid	<i>Cymbidium</i> Dr Baker 'Hyacinth'	Jane Wright

Popular Vote October 2004

Vandaceous hybrid	<i>Phalaenopsis</i> unknown	Julianne Turner
Laeliinae hybrid – miniature	<i>Sc. Lana</i> Coryell ‘Alex L’	Theo & Jenny Schutz
Laeliinae hybrid - intermediate	<i>Iwanagara Appleblossom</i>	Brian Leedham
Laeliinae hybrid – standard	<i>Slc. Naomi</i> Kerns ‘Fireball’ x <i>Bc. Mount Anderson</i> ‘Norm Tator’	Bob Evans
Laeliinae species	<i>Cattleya intermedia alba</i>	Robert Rough
Paphiopedilum	<i>Paphiopedilum</i> St. Swithin	Terry Turner
Coelogyne	<i>Coelogyne speciosa</i>	Don Chesher
Masdevallia species	<i>Masdevallia ignea</i> ‘Lava Flow’	Theo & Jenny Schutz
Masdevallia hybrid	<i>Masdevallia</i> Copper Angel ‘Highland’	Theo & Jenny Schutz
Cymbidium hybrid	<i>Cymbidium</i> Celtic Imp ‘Paradise’	Sheila Cudmore
Australian Dendrobium species		
Australian Dendrobium hybrids	<i>Dendrobium</i> Glory Fleck x <i>Den. speciosum</i>	Brian Leedham
Sarcochilus hybrid	<i>Sarcochilus</i> George Colthup (= <i>Sarco. Melba</i> x <i>hartmannii</i>)	Robert Rough
Australian terrestrial	<i>Glossodia major</i>	Robyn Noel
Exotic Dendrobium species	<i>Dendrobium pierardii</i>	Mark Fraser & Sandra Corbett
Exotic Dendrobium hybrid	<i>Dendrobium</i> Yukidaruma ‘The King’	Theo & Jenny Schutz
Exotic terrestrial	<i>Serapia lingua</i>	Nita Wheeler
Any other species	<i>Dendrobium discolor</i>	Mark Fraser & Sandra Corbett
Orchid of the Night	<i>Dendrobium</i> Yukidarama ‘The King’	Theo & Jenny Schutz
Judges Choice - Species	<i>Masdevallia ignea</i> ‘Lava Flow’	Theo & Jenny Schutz
Judges Choice - Hybrid	<i>Sc. Lana</i> Coryell ‘Alex L’	Theo & Jenny Schutz



Horticultural Society Show Sept 04 Champion Orchid
Paphiopedilum sukhakulii – David Judge



Horticultural Society Show Oct 04 Champion Orchid
Lc. Chit Chat Tangerine – Brian Leedham

Contributions to the Bulletin

You can get material to the editor by the following means:

In person: At meetings, or if I am not there to either Robyn Noel or Barbara Corsini.

By mail: PO Box 3312, Belconnen, ACT 2617 **not** the Orchid Soc PO Box

By phone: (02) 6254 1119 (h)

By email: Jane.Wright@csiro.au

Hand written, typed and computer generated material all welcome and will be included as soon as possible subject to space. Contributions preferably by 14th of Jan, Feb, April, June, August, October.

Computer files: This bulletin is prepared with Word for Windows 2000 on a PC. I can handle .doc, .rtf and .txt text formats and digital still and video images in most popular formats including .avi, .jpg, .tif and .bmp. Please keep formatting to a minimum, especially if it includes graphics. I can also scan drawings, text, slides and photographic prints. Contributors using a Mac please format files to a PC readable format before sending them to me. Please keep a backup copy of your own of anything you send me as accidents can happen! I can handle IBM formatted floppy disks and CDs. Please put your name on disks so that I can return them to you. Any questions, please see, ring or email me.

The Editor, Jane Wright