



THE SOUTH COAST ORCHID CLUB GAZETTE

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Affiliated with The Australian Orchid Council & The Orchid Club of S.A. Inc.

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SEPTEMBER 1995**NEXT MEETING:**

Tuesday 12th September 1995, Calvery Lutheran Church Hall, Windsong Crt, Morphett Vale. Benching of plants to be completed by 7-45pm for judging. Meeting commences at 8-00pm.

GUEST SPEAKER

A representative from Smoult's Mobile Horticultural Suppliers will address us. 'Smoult's are for all your horticultural and floral needs.' Sure sounds interesting!

SUPPER:

Tea, Coffee and Biscuits will be provided.

HALL SET-UP:

Those willing to help please be at the Hall by 7.00pm.

DAYTIME CHAPTER:

2pm Thursday 14th September 1995 at South Brighton Community Hall, Dover Square Reserve, Broadway, South Brighton: K.H. Northcote will present slides from Florafest Orchids of Australian Native Orchid Hybrids entitled 'The Hot-Cold Mix'. These are the Australian Orchids for the 21st Century.

A FLOWER FESTIVAL is to be held in St. Augustines Church, Unley Road, Unley.

Put-in Day is Saturday 14th October. The festival will be from 15th to 19th and open to the public from 10am each day. S.C.O.C. will be putting in a display and also have plants for sale. The Rose Society, various floral groups and florists

are also participating. More information next month.

DAYTIME CHAPTER

A beautiful afternoon saw a good crowd at the August meeting and a lovely variety of orchids benched. Keith Northcote welcomed all, and recorded a number of apologies, with a special welcome for Kevin Western who had graciously stepped in to

replace the advertised speaker who will be with us later in the year. The topic for the afternoon was Disas and their Cultivation. (More of this in a later Gazette).

From the benched orchids Kevin's choice was - 1st McLna Pagan Lovesong grown by H. & B. Viney, 2nd Paphiopedilum Mylor grown by R. Moore and 3rd Cym. Palace Court grown by W. & R. Clark while the members chose 1st *Onc. pulvinatum* grown by R. Moore, 2nd Cym. Palace Court and 3rd McLna. Pagan Lovesong. During Afternoon Tea members were able to look at the various Disas Kevin had bought in as well as having the usual chat.

GET WELL

Once again we have a few members on the sick list, seems to be the 'boys' turn this time. Please get well quickly and don't give the nurses too bad a time.

SOUTH-EAST TRIP

There are still seats available for the trip to Millicent, Mount Gambier and the surrounding area. Cost is \$150 per head. This includes bus, bed, 3 lunches, cheese and wine tasting and socializing. Please ring Lesley Fenton on 2934307 or Helen Edwards 2986689 A.S.A.P. to book. Money **MUST** be paid by the September meetings.

INDEMNITY CLAUSE

The indemnity clause that was voted on at the July Cultural meeting was passed and will now be included in the constitution.

TOWNSVILLE FLOWERS

Flowers to be sent to Townsville are required by the next cultural meeting please. Remember the beautiful flowers Townsville sent to us for our Winter Show? Now it is up to us to reciprocate.

Members not attending the meeting can leave flowers at 33 Oliphant Avenue, Marion, on Tuesday 12th September.

CHRISTMAS LUNCHEON

ADVANCE NOTICE

The Christmas luncheon will be on 26th November. Venue and cost etc. to be advised.

WHERE ARE THOSE ALBINO-TYPE CYMBIDIUMS by ALVIN BRYANT

For me, it began by accident over 40 years ago. I bought some seedlings of *Cymbidium* Durham Castle because I noticed an unusual colour wash in those that had flowered. To my surprise, two of those that I subsequently flowered were fine albino types, namely Cym. Durham Castle 'Snow Princess' (an albino white) and Durham Castle 'Brilliance'. The former flowered first, and I recognised it as an albino. But the clone 'Brilliance' was an overall clear yellow. It was obviously different, in the same sense as the albino white, but as it was yellow, I was at a loss to categorise it. I found nothing in the literature, so I wrote to Judge Drumm in America, whom published my letter in one of the orchid journals. It was met with silence. Being reluctant to name the different types albino, I called them 'non-staining', as sunlight does not discolour their buds. Until the matter could be clarified I sought official recognition, Durham Castle 'Snow Princess' was given as Award of Distinction.

I then crossed Durham Castle 'Snow Princess' with Sussex Dawn 'Dorothy May' with the aim of improving the shape, planning to intercross the progeny and produce more albino types as they popped out from behind their recessive mantle in the second generation. Imagine my surprise when 50% of the first generation (the now historic Cym. Sleeping Beauty) were of the albino type. After I showed the fine form Sleeping Beauty 'Prophecy' at a local meeting, I was advised to submit a paper to the 6th World Orchid Conference which drew world-wide attention to this 'non-staining' type of cymbidium. In this paper I outlined the nature of the property, and presented a hypothesis

explaining it. It remains unchallenged o this day.

The flowering of the Cym. Sleeping Beauty seedlings told me that a simple Mendelian recessive mechanism was operating. It was the result of Cym. Sussex Dawn 'Dorothy May' by chance carrying a gene for albinism - a lucky chance because the reason for buying the seedlings (the washed out labellums) was unrelated to the albinism. It was now possible to propose a hypothesis explaining why colours other than white could appear.

When dealing with the albino types, it is important to realize that they may act differently in a breeding program. An albino type from a normal pink colour background, when crossed with normal white, will throw pink seedlings. Think of the colour mechanism as a chain of events, starting with the colourless, proceeding to white, then yellow and on to red and brown, with green (chlorophyll) as an independent variable. Now think of a flaw developing in this chain between yellow and red/brown, which will prevent the development of the red and brown colours. This flaw results in only some colours developing, although the mechanism is still present. For a plant to show this fault, it has to inherit it from both parents. If only one parent passed on this flaw, the normal part takes over the job of the faulty part, and the colour mechanism inherited from both parents operates normally. Thus the albino white, when crossed with a normal white, had its inactivated pink colour mechanism restored to full working order. This behaviour brings into question the use of the word *dominance* in genetics. Perhaps *normal expression* should replace it, because the recessive albinism was not dominated by anything. A good example of this in humans is eye colour, where brown is said to be dominate over blue. If the above reasoning is correct, then brown is a normally expressed colour, which never dominated the blue.

One of the problems associated with the above development was its name. The word *alba* means white. The orchids we are discussing are of this family, but need not be white. The term *pure colour* had a popular appeal, but it could also mean pur pink or red.

The importance of this group of orchids is that they behave differently in a breeding program and should be distinguished accordingly. For a time I thought of calling them *anthocyanininactive*. But this term is too bulky, so I think it best to call them *albino types*. The 'give-away', of course is the replacement of red in the labellum with yellow or white.

The albino-type hybrids are not mutations. The property can be traced back through their ancestry to the parent species. This was done as soon as the value of the above development was realised. A search around the world over a period of time has shown that some nurseries have some stock. Cym. *lowianum* var. *concolor* is one example. Gallup and Stribling flowered the Sussex Dawn clones 'Cold Springs' and 'Hot Springs', but they would not breed. Wondarah Orchids was the source of Cym. Melings. Cym. Wylan 'Sailor Boy' was a carrier and the property exists in many of its descendants, including many clones of Cym. Westholme. Cym. Ramboda also carried the property, and currently Geoff Browning of Peninsula Orchids has been flowering some nice seedlings from this background.

The most successful commercial use of the albino-types of which I know is in Titirangi (New Zealand), which the late Billo van der Linden exported in significant quantities. In 1974 he purchased alol my spare mother flasks and flowered their contents. Spoilage was high but some good ones were there in both normal colour and albino types. The later Vandyke and Valley orchids carried on from my early work, moving on to colchicine treatment, but work in this area seems to have dropped out of sight. We are collecting a number of the tetraploid forms to see why.

I suspect that insufficient genetic material with tetraploid character was obtained, but this may be an injustice to someone still quietly working away.

In New Zealand the van der Linden family of commercial flower growers is actively working on the development, but this is not publicised. Julian Cokier is at an interesting stage with some beautiful seedlings of Cym. Twenty First Century. One of its parents was my Alvin Bryant 'Regal', a tetraploid full of 'goodies', such as high production of massive spikes of up to 30 flowers of excellent size, shape and substance. Its off-white colour indicated that it was carrying both white and coloured genes, and its early flowering time pointed to it still having 'early' genes from *Cym. erythrostylum*. The other parent was a tetraploid albino-white, Cym Sleeping Dream 'Cecil Park'. Sleeping Dream 'Cecil Park' flowers are open and flat and, when crossed with Alvin Bryant 'Regal', a run of extremely fine, normal coloured whites resulted. Julian is presently making his next generation crosses, from which a percentage of most promising albino types can be expected.

At our nursery there were straightforward choices to be made. From a commercial viewpoint the 'meat' was in the development of early-flowering tetraploids, and the embellishment for tomorrow was in the diploid albino types. It was decided to develop the albino types as diploids because of the wider range of genetic material was available, and because it would be easier to change diploid characteristics with only 40 chromosomes involved, compared with 80 chromosomes in the case of tetraploids. This work has now been carried on at low level for 30 years. It has had its setbacks, because many of the chosen new parents turned out to be triploids. However, there has been sufficient genetic material to work with, and in the last three years some superb

results have been obtained. The key parents Cym. (Sleeping Dream x Yamba) 'Lynn' or 'Dazzle' and Cym Temple Court 'Zenith'. Hybrids of these produced the six-inch clone 'Ecstasy' two seasons ago, and the clones 'Esther' and 'Excel' last season, as well as the 'too-good-to-be-true' clone 'Limelight'. The cross of Cym. Yamba x Rose Armstrong gave an outstanding yellow-flowered clone, named 'Ingot'. All these clones should be diploids, but they are of tetraploid standard. Outstanding new clones can result from a chromosome jump. They have yet to be tested for ploidy.

Some of the problems that have slowed development result from the fact that the slightest mark shows on the flowers that are pure in colour. Therefore qualities, such as bruise resistance, spot resistance and heat-resistant pollen caps which do not darken, had to be incorporated. Furthermore, Cym. Durham Castle clones are not free-flowering, and the spoilage rate from this trait was enormous. Good shape was also absent. Using tetraploids may not have conferred sufficient desirable characteristics. It is only by reaching into the normal colour pool, as with Julian Coker's Cym. Twenty First Century, that these faults can be corrected. With the diploid albino types it was much easier to reach into normal colour strains and gain what was needed. For instance the super-production qualities of Cym. (Sleeping Dream x Yamba) 'Lynn' was gained from its Cym. Coraki ancestry, whereas the substance, spike habit, heat resistant pollen caps, bruise resistance and good shape were conferred by the normal-coloured Cym. Zumma Boyd 'Magnificent'.

I have always felt that the race for albino-type development would be won by the diploids, with the bonus of eventual tetraploid conversion. It will be interesting to see where development stands in six years time.

MONTHLY FLORAL COMPETITION
OPEN DIVISION RESULTS

Judges: K.H.Northcote
R.Wilson

Aust.Nat.Epi:Species	<i>Den. teretifolium</i>	R. Moore	3
	<i>Den. teretifolium</i>	R. & B.Anderson	2
	<i>Den. aemulum</i>	R. & B.Anderson	1
Aust.Nat.Epi:Hybrid	Den. Star of Gold	B.Wyly	3
	Den. Ellen	D. Biebrick	2
	Den. Ellen	R. Moore	1
Aust.Nat.Terr:Species	<i>Ptst. concinna</i>	B.Wyly	3
	<i>Ptst. concinna</i>	D. Biebrick	2
	<i>Ptst. nutans</i>	P. & G. Flavel	1
Aust.Nat.Terr:Hybrid	Ptst. Nodding Grace	R. & B.Anderson	3
	Ptst. Dusky Duke	R. & B.Anderson	2
	Ptst. <i>curta</i> x <i>pedunculata</i>	P. & G. Flavel	1
Inter. Cymbidium	Alley Cat	J. & J.Jacobsen	3
	Kauilani 'Doreen'	H. Gerber	2
Mini. Cymbidium	Kauilani 'Princess Masako'	H. Gerber	3
	Beaconfire x	C. & H.Edwards	2
	Sarah Jean 'Ena Langdale'	H. Gerber	1
Std. Cattleya	Lc. Shellie Compton	P. & G. Flavel	3
	Blc. Ruth Giffen	R. & B.Anderson	2
Nov. Cattleya	Pot. Twenty Four Carat	B. Wyly	3
Nov.Cluster Cattleya	Lc. Scarlet Imp x Lc Jalapa	B. Wyly	3
Other Laeliinae	Osmentara (Liponia Kingston x Ctna Keith Roth)	B.Wyly	3
Phalaenopsis	Stormy Monday x Orglade's Secret	M. Bray	3
	Abendrot x Zaube Robe	M. Bray	2
Std. Paphiopedilum	Gigi x Showpiece	D. Biebrick	3
	<i>charlesworthii</i> x Gigi	P. & G. Flavel	2
Nov. Paphiopedilum	Copperware x <i>callosum</i>	D. Biebrick	3
	<i>tonsum</i> x <i>venustum</i>	R. Moore	2
	Fairie-Maud	D.Biebrick	1
Species Paphiopedilum	<i>villosum</i>	C. & H.Edwards	3
	<i>insigne</i>	R. Moore	2
	<i>Insigne</i> var. <i>sanderiae</i>	R. Moore	1
Odont/Oncidium Alliance	Onc. Broken Hill x Mem. Athol Bell	B. Wyly	3
	Oda. Aviemore x Mem. Donald Campbell	M. Bray	2
	Odcn. Tiger Hambuhren 'Mieke'	T. DeIonno	1

Species	<i>Onc. pulvinatum</i>	R. Moore	3
Vandaceous	Vanda (Josephine van Brero x Gordon Dillon)	R. & B. Anderson	3
Zygopetalum	B.G. White 'Eucla'	P. & G. Flavel	3
	Advance Australia	R. Moore	2

FLOWER OF THE DIVISION & OF THE MONTH: *Onc. pulvinatum* grown by R. MOORE

FIRST DIVISION RESULTS

Judges: R. Moore

Aust. Nat. Epi: Species	<i>Bulb. aurantiacum</i>	M. Tiggeman	3
Aust. Nat. Terr: Species	<i>Ptst rogersii</i>	M. Tiggeman	3
	<i>Ptst. pedunculata</i>	M. Tiggeman	2
Aust. Nat. Terr: Hybrid	Ptst. Joseph Arthur	M. Tiggeman	3
	Ptst. Elegance	M. Tiggeman	2
Std. Cymbidium	Sleeping Valley	M. Tiggeman	3
	Lunagrad x Fred Stewart	M. Tiggeman	2
	Sleeping Kathy	M. Tiggeman	1
Inter. Cymbidium	Tricia Allen 'Black Lips'	J. Lewis	3
	Tricia Allen 'Black Lips'	M. Tiggeman	2
Mini. Cymbidium	Lancelot 'Paramoor'	M. Tiggeman	3
	Lynette 'Artemis'	M. Tiggeman	2
Std. Cattleya	Blc. Beth Hughes	C. Ameer	3
	Volo Otto	C. Ameer	2
	Lc. Bonanza Queen	C. Ameer	1
Nov. Cattleya	Lc Katy True x Lc Pirate King	R. Wilson	3
	C. Fitz Eugene Dixon	M. Tiggeman	2
Nov. Cluster Cattleya	Lc. Adelaide Ablaze	R. Wilson	3
	Sl. Jinn	J. Lewis	2
Cocktail Cattleya	Slc. Hazel Boyd 'Sunset'	C. Ameer	3
Std. Paphiopedilum	Royal Camelot x Gigi	P. O'Brien	3
Nov. Paphiopedilum	<i>wolterianum</i> x <i>sukhakulii</i>	P. O'Brien	3
	Gael 'Camira'	R. & I. Parish	2
	<i>haynaldianum</i> x <i>chamberlainianum</i>	J. Lewis	1
Species Paphiopedilum	<i>sukhakulii</i>	P. O'Brien	3
	<i>spicerianum</i>	P. O'Brien	2
	<i>insigne</i>	J. Lewis	1

Odont/Oncidium Alliance	McLna. Pagan Lovesong	J.Lewis	3
	McLna. Pagan Lovesong	H. & B.Viney	2
	Mclna. Pagan Lovesong	J.Lewis	1
Species	<i>Serapias lingua</i>	M. Tiggeman	3
	<i>Enc. cochleata</i>	J.Lewis	2
Zygopetalum	<i>mackayii</i>	M.Tiggeman	3

FLOWER OF THE DIVISION: SLC. HAZEL BOYD 'SUNSET' grown by CHAS AMEE

SECOND DIVISION RESULTS

Judge :G.Brooks

Aust.Nat.Epi:Species	<i>Den. bigibbum</i>	C.Anderson	3
Aust.Nat.Epi:Hybrid	Den. Hastings	A. & V.Thompson	3
Aust.nat.Terr:Species	<i>Ptst. curta</i>	B. Fisher	3
	<i>Ptst. baptistii</i>	B. Fisher	2
Aust.Nat.Terr:Hybrid	Ptst. Nodding Grace	B.Fisher	3
	Ptst. xingens	A. & V.Thompson	2
	Ptst. Nodding Grace	R. & J.Kelly	1
Std. Cymbidium	Palace Court 'Snow White'	W. & R. Clark	3
	Wallamurra 'Jupiter'	D. & I.Attenborough	2
	Lunagrad 'Elanora'	A. & V.Thompson	1
Inter.Cymbidium	Greenock 'Luminous Green'	D. & I.Attenborough	3
	Greenock 'Olive'	D. & I.Attenborough	2
	Ann Miller 'Midnight'	D. & I.Attenborough	1
Mini. Cymbidium	Bingo 'Santa Barbara'	D. & I.Attenborough	3
Nov. Cattleya	Blc. Fiesta Girl	J.Dudley	3
Dendrobium	Theo Tukigulhi x Valerie Valmadre	A.McKay	3
Nov.Paphiopedilum	Francisco Freire	G. Richardson	3
	<i>wardii</i> x <i>Maudiae</i>	A. McKay	2
Species Paphiopedilum	<i>villosum</i>	J.Attenborough	3
	<i>villosum</i>	G. Richardson	2
	<i>wolterianum</i>	G. Richardson	1
Species	<i>Enc. baculus</i>	A. McKay	3
	<i>Enc. cochleata</i>	A. & V.Thompson	2
Zygopetalum	Kiwi Choice 'Jupiter'	B. Fisher	3

FLOWER OF DIVISION: PAPH. FRANCISCO FREIRE grown by GEOFF RICHARDSON

SPRING SHOW

Helpers are needed from 9am. on Friday 22rd September to help set-up tables and crates etc. **ALL PLANTS MUST BE BENCHED BY 6.45pm as no plants will be accepted after this time.**

Helpers are needed as soon as judging commences (at 6.45pm) on Friday evening. The more helpers there are, the sooner judging will be finished, as everything must be completed by 10.00pm.

A light supper will be available to Judges and Helpers.

Exhibitors are reminded that Cymbidiums may only have 1 tie above the bottom flower.

Financial Members only can exhibit. Plants must be owned by the exhibitor for at least six months prior to the Show.

The Show is open to Members and the Public Saturday 23th and Sunday 25th September from 10.00am - 4.00pm.

Take out is Sunday after 4.00pm.

PLANT SALES

Lists for plants for sale, labels and sticky labels will be available from Phil O'Brien at the September meeting.