

The Paphiopedilum Society of NSW Bulletin

PAPH. *illustrated*



JANUARY 2025



A Case Study

FLORIFEROUSNESS

Considerations for Paphiopedilums

Ken Siew shares his knowledge on how you can estimate the expected floriferousness of a hybrid using mathematical rules of genetics.



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paphnsw



The Paphiopedilum Society
Of NSW

Meetings

3rd Wednesday of the Month

Ermington Community Hall
6 River Road, Ermington
NSW 2115

NEXT MEETING

January 15th at 7.30pm

ALL VISITORS WELCOME



JOYCE & SAM WIN THE 2024
BENCHING COMPETITION



DECEMBER CHAMPION HYBRID
Paph. Wyruna Vietnam Magic - S. Tay



DECEMBER CHAMPION SPECIES
Paph. bellatulum fma. album - S.Tay

PAPH. illustrated

The Paphiopedilum Orchid Society of NSW Bulletin

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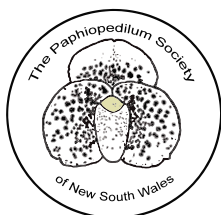
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FRONT COVER

Paph. *godefroyae*;
Photographer: Paphioman (Flickr)

President's Report

Happy New Year to all!



Paph. *niveum*; Photographer: Paphioman (Flickr)

Happy New Year to Everyone. I hope you had a fantastic festive season and well earned rest - ready for another year of Shows and the AOC Conference in Oct. More on that to come later as we firm up our plans for this major event.

Just another friendly reminder to pay your annual subs as soon as possible to enjoy all the unique benefits on offer. A bank transfer or cash at the next meeting is appreciated.

Trevor Yee



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Paph. *Wossner Black Wings* flowering in the Editors greenhouse.

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DECEMBER MINUTES

The Paphiopedilum Society of NSW General Meeting. Wednesday 18th of December 2024 at the Ermington Community Hall, 6 River Road, Ermington, NSW.

President Trevor Yee declared the general meeting open at 8.00pm and everyone was welcomed.

MINUTES OF PREVIOUS MEETING

Dated 20 November 2024 included in the November 2024 Newsletter. Moved by Trevor Yee that they be adopted. Seconded by J. Atwal.

GENERAL BUSINESS

MEMBERSHIP RENEWALS

Membership Renewals are due for 2025. Please pay by bank transfer or cash to our Treasurer. \$20 single or \$30 couple.

UPCOMING MEETINGS

JANUARY - Growing Multi-florals - Gowan Stewart

FEBRUARY - Growing Brachy types - Seong Tay

MARCH - Paphs at various shows - Ian Chalmers

APRIL - Preparing your greenhouse for winter - Daniel Webb

MAY - AGM & Members Mini Auction

JUNE - Fundamentals of setting up a Table Top Display - Ken Siew

JULY - Mid-Year Social

TONIGHTS PRESENTATION

End of Year Celebrations & Point Score presentation

Veronica Clowes was our special guest for this evening. She is the new President of OSNSW. At the same time, we are also honoured to have 3 past Presidents as members – Kathy Koutsoukis, Garrie Bromley and Irene Chalmers. Ken Siew has been elected the new President of The Australian Orchid Council.

Sam & Joyce Atwal won the annual points score and was presented the Trophy by Veronica on behalf of the Committee. Other members received their prize monies based on their standings in each class.

PLANTS OF THE NIGHT

CHAMPION SPECIES - Paph. *bellatulum fma. album* - S. Tay

CHAMPION HYBRID - Paph. Wyruna Vietnam Magic – S. Tay

MONTHLY 5 MINUTE GROWING SEGMENT

Ken Siew talked about the parts of the Paph flower, the evolution of the parts and how it gets pollinated. He also described why some Paphs have very long petals as a suspected evolution for pollinators to access the flower from the ground.

MEETING HIGHLIGHTS

Our members enjoyed a delightful spread of finger foods prepared by members including satay, fried rice & noodles, fish cocktails, desserts, tiramisu, cakes and fruits. Special Thanks to all that helped to setup the table and get the food ready.

Some photo highlights are available in the newsletter.

NEXT MEETING

January 15: Growing multi-florals – Gowan Stewart

All members were asked to return their chair to the back of the hall and tables into storage before the raffles were drawn.

RAFFLE

The raffle was drawn and Seong was thanked for the wonderful plants provided for tonight's raffle.

MEETING CLOSED

Meeting closed at 10.00pm



VISITORS

F.Pristov
V. Clowes
X L Zhang
L.Nguyen

APOLOGIES

G. Malik
D. Webb
I & I Chalmers
L. Zammit
S. Lee-Joe,
J. Do

JUDGES

K. Siew
C. Scott-Harden
G. Gouvoussis
G & L Bromley
J. Robinson

RAFFLE PLANTS

1. Paph. *dayanum* (O1)
2. Paph. Saint Swithin (O1)
3. Paph. *rothschildianum* (Orchid Inn)
4. Paph. *haynaldianum* (O1)
5. Paph. Sander's Pride (O1)
6. Paph. Prince Edward of York (O1)
7. Paph. *venustum* var. *measuresianum* (TOM)
8. Paph. *rothschildianum* (O1)
9. Paph. *sanderianum* (O1)
10. Paph. *braemii* (O1)

Plus 5 complex paph seedlings from Ezi-Grow Orchids

DECEMBER MONTHLY BENCHING RESULTS

SPECIES OF THE EVENING
Paph. *bellatulum fma. album* - Grown
by S. Tay

HYBRID OF THE EVENING
Paph. Wyruna Vietnam Magic
Grown by S. Tay



38

PAPHS BENCHED
THIS MONTH

CLASS 1 - MULTIFLORAL SPECIES - SECTION PARDATOPETALUM

1st Paph. *lowii* T. Yee [1]

2nd

3rd

CLASS 2 - MULTIFLORAL SPECIES - SECTION CORYPETALUM

1st Paph. *philippinense* L&G Bromley [2]

2nd

3rd

CLASS 3 - SEQUENTIAL SPECIES

1st Paph. *liemianum* S. Tay [3]

2nd Paph. *liemianum* T. Yee [4]

3rd Paph. *primulinum* T. Yee [5]

CLASS 4 - BRACHYPETALUM SPECIES

1st Paph. *bellatulum fma. album* S. Tay [6]

2nd Paph. *bellatulum* S. Tay [7]

3rd Paph. *niveum* T. Yee [8]

CLASS 5 - PARVISEPALUM SPECIES

1st Paph. *emersonii* J&S Atwal [9]

2nd Paph. *delenatii* J. Chang [10]

3rd

CLASS 6 - PAPHIOPEDILUM SPECIES - PAPHIOPEDILUM

1st Paph. *hennisianum* var. *christiansenii* J&S Atwal [11]

2nd Paph. *tigrinum* B. Wong [12]

3rd

CLASS 7 - PAPHIOPEDILUM SPECIES - SIGMATOPETALUM

1st Paph. *volontianum* J&S Atwal [13]

2nd

3rd

CLASS 8 - PAPHIOPEDILUM SPECIES - MINIATURE

1st

2nd

3rd

CLASS 9 - OTHER CYPRIPEIDIOIDEAE SPECIES

1st

2nd

3rd

CLASS 10 - SPECIES SEEDLING

1st Paph. *philippinense* Q.L. Ly [14]

2nd Paph. *barbatum* J. Chang [15]

3rd

CLASS 11 - COMPLEX HYBRIDS RED

1st

2nd

3rd

CLASS 12 - COMPLEX HYBRIDS YELLOW/GREEN

1st

2nd

3rd

CLASS 13 - COMPLEX HYBRIDS PASTEL, WHITE/PINK/CREAM

1st

2nd

3rd

CLASS 14 - COMPLEX HYBRIDS SPOTTED

1st

2nd

3rd

CLASS 15 - COMPLEX HYBRIDS ANY OTHER COLOUR

1st

2nd

3rd

CLASS 16 - MULTIFLORAL HYBRIDS

1st Paph. Harold Koopowitz J&S Atwal [16]

2nd

3rd

CLASS 17 - BRACHYPETALUM HYBRIDS

1st

2nd

3rd

CLASS 18 - PARVISEPALUM HYBRIDS

1st Paph. Wyruna Vietnam Magic S. Tay [17]

2nd Paph. Magic Lantern S. Tay [18]

3rd Paph. Magic Lantern J&S Atwal [19]

CLASS 19 - PARVISEPALUM x BRACHYPETALUM HYBRIDS

1st Paph. unknown H. Meyers [20]

2nd

3rd

CLASS 20 - MAUDIAE TYPE HYBRIDS - COLORATUM

1st Paph. Shin-Yi Heart x (Hung Sheng Bay x Hung Sheng Magic) J&S Atwal [21]

2nd

3rd

CLASS 21 - MAUDIAE TYPE HYBRIDS - ALBANISTIC

1st

2nd

3rd

CLASS 22 - MAUDIAE TYPE HYBRIDS - VINICOLOR

1st Paph. Shin-Yi Heart x (Hung Sheng Bruno x Hsinying Web) J&S Atwal [22]

2nd

3rd

CLASS 23 - NOVELTY HYBRIDS - SINGLE FLOWER

1st Paph. Envy Green J&S Atwal [23]

2nd Paph. Delphi H. Meyers [24]

3rd

CLASS 24 - NOVELTY HYBRIDS - MULTI FLOWER OR BUD

1st Paph. Edithiae J&S Atwal [25]

2nd

3rd

CLASS 25 - HERITAGE HYBRIDS

1st

2nd

3rd

CLASS 26 - OTHER CYPRIPEIDIOIDEAE HYBRIDS

1st Phrag. Grande 'Chinaman' J&S Atwal [26]

2nd Phrag. Living Fire 'Queenscliff' HCC/AOC Q Y Ly [27]

3rd

CLASS 27 - HYBRID SEEDLING

1st Paph. Haur Jih Anita T. Yee [28]

2nd Paph. Booth Strap Leaf B&A Wunderlin [29]

3rd Paph. Harold Koopowitz J&S Atwal [30]

CLASS 28 - SPECIMEN

1st

2nd

3rd

CLASS 29 - NOVICE SPECIES

1st

2nd

3rd

CLASS 30 - NOVICE HYBRIDS

1st

2nd



01



05



10



02



06



11



03



07



12



04



08



09

- [01] *Paph. lowii*
- [02] *Paph. philippinense*
- [03] *Paph. liemianum*
- [04] *Paph. liemianum*
- [05] *Paph. primulinum*
- [06] *Paph. bellatulum fma. album*
- [07] *Paph. bellatulum*
- [08] *Paph. niveum*
- [09] *Paph. emersonii*
- [10] *Paph. delenatii*
- [11] *Paph. hennisianum var. christiansenii*
- [12] *Paph. tigrinum*



13



16



20



14



17



21



15



18



22

- [13] *Paph. volontianum*
- [14] *Paph. philippinense*
- [15] *Paph. barbatum*
- [16] *Paph. Harold Koopowitz*
- [17] *Paph. Wyruna Vietnam Magic*
- [18] *Paph. Magic Lantern*
- [19] *Paph. Magic Lantern*
- [20] *Paph. unknown*
- [21] *Paph. Shin-Yi Heart x (Hung Sheng Bay x Hung Sheng Magic)*
- [22] *Paph. Shin-Yi Heart x (Hung Sheng Bruno x Hsinying Web)*



19



23



24



25



26



27



28



29



30

- [23] Paph. Envy Green
- [24] Paph. Delphi
- [25] Paph. Edithiae
- [26] Phrag. Grande 'Chinaman'
- [27] Phrag. Living Fire 'Queenscliff' HCC/AOC
- [28] Paph. Haur Jih Anita
- [29] Paph. Booth Strap Leaf
- [30] Paph. Harold Koopowitz

Our Society is full of great minds and Ken Siew is one of those treasure troves of knowledge that is spilling over with interesting facts and information about Paphiopedilums. Check out this mini case study Ken compiled on the expected floriferousness of Paph. Vanguard's Lebeau using the geometric mean.

FLORIFEROUSNESS

considerations of Paphiopedilums

A CASE STUDY

This paper serves to clarify a position the judges panel could take, on the issue of assessing Paph Vanguard's Lebeau for "floriferousness".

In assessing hybrids, there are three ways of interpreting "superiority" of Progeny

Its

- a) ability to surpass benchmark standards based on previous Awards
- b) conformity towards the "Idealisation" model
- c) conformity towards the upper ranges of geometric mean of parental values

The use of benchmarks where they exist is the quickest way to establish superiority but care must be taken to ensure that the benchmarks are within a reasonable timeframe as there is a tendency for standards to improve. A plant under assessment simply needs to match or surpass previous performance to achieve recognition.

The 'idealisation model' is an artificial construct of all the best features for the group, composited into a fictional 'ideal'. Such a construct is called a 'projection'. This is the way a hybridiser establishes possibilities; an image of the target of a breeding program. A plant being assessed is matched against this fictional ideal so that it can be placed on a scale of how 'improved' it is against a projected standard of "perfection" for the group. It is largely unrealistic for poorly developed groups and should be applied to intensely hybridised groups.

The geometric mean is the best estimate of the real action of genetics. The geometric mean can be applied to any trait operating under the combination of multiple genes. When a trait is due to a single-gene (also "homeotic" genes - single genes which act on multiple genes) a Mendelian effect is observed. (The "standard population curve" reduces to a column graph.) The geometric mean is accurate for most orchids/traits and makes sometimes non-intuitive predictions. Eg a single flowered species when crossed with a 100 flowered species yields progeny producing only 10 flowers. It is a measure of "central tendency".

I produce the predictions for Paph Vanguard's Lebeau below:

Paph Vanguard = Paph *glaucohyllum* x Paph *rothschildianum*

Paph *glaucohyllum* (1 to 3 flowers) Paph *rothschildianum* (3-5 flowers)

Geometric Mean (square root of the product) ie square root of (1x3) (for lower representatives and square root of 15 (3x5) (for the best)

The expected range for Vanguard is (1.7-3.8) with the best leaning towards 4.

Paph Vanguard's Lebeau = Paph Vanguard x Paph *rothschildianum*

Paph Vanguard (2 to 3.8 flowers) Paph *rothschildianum* (4-5 flowers)

Geometric Mean (square root of the product) ie square root of 8 (for lower representatives and square root of 15 (for the best)

So the expectation for Paph Vanguard's Lebeau is (2.6 to 3.9)

On the issue of the Guideline/Handbook:

The Handbook is reductionalist to "Styles". A proper understanding must be achieved through familiarity of the species and the current hybrids.

In addressing poly-floral groups (mostly Coryopedilum, Pardalopetalum and Cochlopetalum) when hybrids are made within the purely simultaneous-flowered groups specific application of the Geometric Mean must apply to only the species involved rather than averages for the group since the numbers vary so much for eg. **Paph philippinense var laevigatum** and **Paph adductum var anitum** typically have 2 flowers out and are small plants. Conversely **Paph kolopakingii var toppei** may have up to 14 flowers out at once. The most popular species for hybridising are **Paph rothschildianum** and **Paph philippinense var roebellinii** which have about 5 flowers out optimally. This is a group only up to 6 generations removed from species and we are still seeing the primary combinations. Compare to Exhibition types or Cymbidiums which are up to 22 generations removed from species.

In considering the Sequentially-flowered species of the Cochlopetalum the operational number is the open flowers presented. Ie. Although a species such as Paph liemianum can produce a raceme on which a dozen or more flowers have opened, only the flowers open at one viewing should be counted. The large number of flowers borne (even more than the Coryopedilums) are produced over 18 months or more so the physiological impost from flowering is only 1 to 3 flowers at a time. It is this number (physiologic sustainable number) which must be used for calculating the Geometric Mean, not a 2-year production.

Ken Siew



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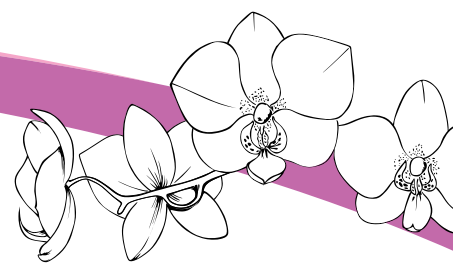
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