

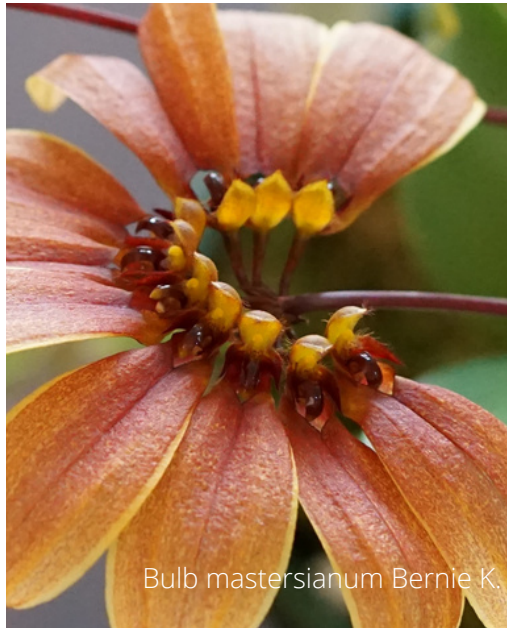


CVIOS

Central Vancouver Island Orchid Society



Catasetum tenebrsum. -
Ken M



Bulb mastersianum Bernie K.



Bernie K.

President's Message

I hope that many of you will be seeing spikes growing on your phalaenopsis (both NOID's and those with pedigrees) and other orchids which will brighten up the fall and winter for you. Mine seemed to have benefited by their stay outside in the cool air during early September as I see 14 spikes poking up!

We're in for a busy few weeks as our November meeting, trip to Paramount and then our Christmas meeting/luncheon all seem to be bunched together. Unfortunately availability of the hall space and Paramount's required that they be close together. The November meeting will be a bag draw and the December meeting will be a silent auction - see the minutes for details.

Upcoming :

Nov 14 - November General Meeting. Our featured speaker will be Bernie Kespe speaking about his indoor grow space.

Nov 21 - Trip to Paramount Orchids - see page 4 for details

Dec 5 - CVIOS Christmas Lunch

President's Message (cont):

I was flipping through an old copy of the AOS magazine and found the following piece by Peter Porciello which I found both informative and amusing. I believe he had gone through a hurricane and had to rebuild his greenhouse.

10 Orchid Myths Busted:

- A phalaenopsis with no leaves is not necessarily dead.
- Most orchids don't require uninterrupted light.
- Temporary loss of air movement is not harmful.
- *Phragmipedium bessae* can survive heat and drought.
- *Phragmipedium kovachii* with roots can survive neglect.
- Neglected plants will still bloom - sometimes better than ever.
- Growing orchids is not frustrating - it is a personal growth experience.
- Orchids will survive disasters, depending on the condition of their roots.
- Orchids survive disasters better under lights.
- Orchids can survive disasters better than their growers.

Happy Hallowe'en - keep the black cats out of your orchids!



Sheila Wilson, CVIOS President

Membership Renewal Due

We kindly ask you to consider renewing your membership for the 2021/2022 year.

We appreciate your support over the past unprecedented year, and look forward to continuing to offer opportunities to "Learn, Share and Grow" as orchid hobbyists.

We have booked monthly in-person meetings, and events such as the Christmas lunch, Paramount trip, and the Annual Show and Sale . There will be ongoing opportunities to order unique plants from international vendors, as well as potting supplies and fertilizer. Our members are here to answer any questions you may have to help you succeed in getting your orchids to bloom within our Vancouver Island climate . And there are always opportunities to buy and trade unique, established orchid plants from our members.

Thank you for your ongoing support!

--- CVIOS Executive



Bulb frostii Bernie K

Monthly Meetings

CVIOS meetings are normally held once per month September to June on Sunday at the North Oyster Community Center, 13467 Cedar Road, 11:30 to 2:30. Typically there is a brief business meeting starting at 12pm. Following is a display of plants brought in by members, a coffee break, prize draw and a featured presentation or demonstration. There is a sales table where orchid supplies and plants can be purchased.

At this time, the following Covid precautions are in place:

- Masks will be mandatory for anyone attending
- Hand sanitizer will be available
- We suggest bringing your own camp chairs, etc. unless you want to disinfect their chairs afterwards.
- We will allow food donations for lunch, however anyone who prefers to bring their own food is certainly welcome to do so. Tea and coffee will be provided.

Mailing Address:

c/o Bernie Kespe
556 Juniper Drive
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V9K 2J2

Email: Sheila Wilson
mesheshe@shaw.ca

Newsletter: Melanie Norris
melroga@telus.net

CVIOS Executive 2021/2022

President: Sheila Wilson

Past President: Dora Glover

Vice President: Leslie Milne

Treasurer & AOS Chair: Darlene Rathwell

Secretary: Suzanne Currie

Membership: Bernard Kespe

Plant Sales Table: Judy Russell

Library: Michael DeLeur

Refreshments: Laurie Forbes

Publicity and Programs: Valerie Melanson

Newsletter and Website: Melanie Norris

Director At Large: Alexey Tretyakov

Announcements:

- Welcome to our newest member, Natasha H. We wish you successful growing with us.
- Thank you to the Vancouver Orchid Society for inviting us to join their October 27 presentation of "Understanding Orchid Nutrition" by Ray Barkalow.
- Thank you to the Victoria Orchid Society for inviting us to join the October 25 online presentation featuring Bryan Emery: "Masdevallias".
- The Spring Show planning has begun with Darlene chairing the first meeting on October 28th. Save the date for March 4-6, 2022. Thank you to Darlene and all who attended the show meeting and offered to help get things underway!
- The "events" page of the website has been updated with the dates of all of the general meetings for the 2021/2022 year.
- Sadly, Tropical Garden Orchids has closed after 22 years in business. We wish Calvin and his family all the best

Paramount Orchids Trip

When: Sunday, November 21st from 1:00 to 4:30 p.m.

- Covid-19 protocols will be in place, you must be double vaccinated and have either the official paper or cell phone version for scanning. Masks are mandatory.
- Those who cannot attend but want to order, can do so by visiting the Paramount website to pre-select (Chuck will let you know availability) and pay for your choices, then Sheila will bring them back to Nanaimo and arrange delivery. Make sure you let Chuck know it's a CVIOS order and let Sheila know if and what you order so I don't leave any behind. Pre-orders should be done by Nov. 14th.
- It may be possible to car pool but please **TRY TO STAGGER YOUR ARRIVAL TIMES**
- There might be an opportunity for members to go for lunch in Parksville if members are interested - to be discussed at the November 14 meeting.
- Hope to see you there.



October Show Table



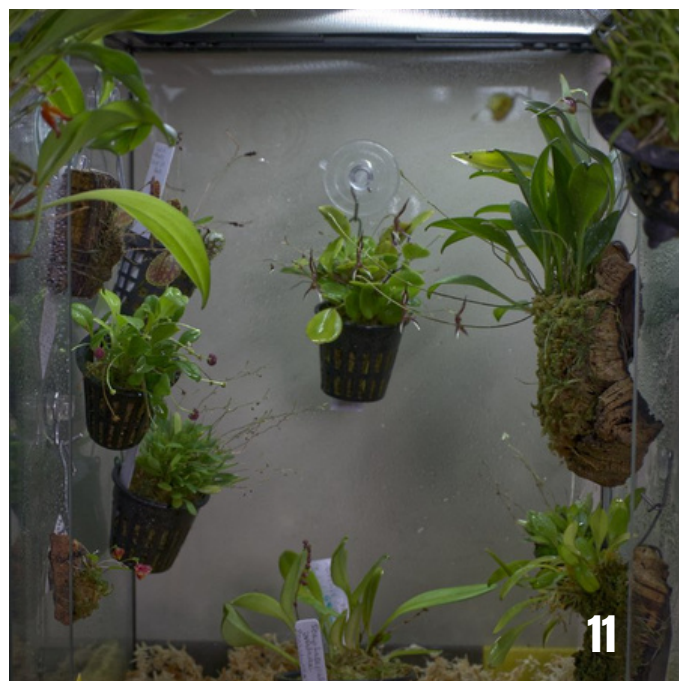
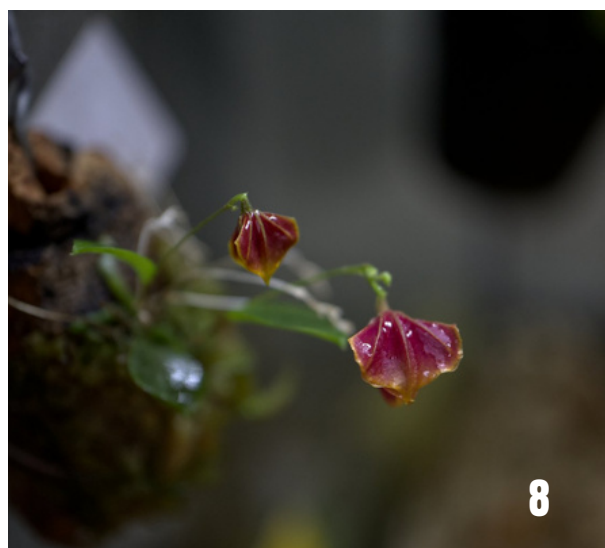
1. Oncostele Wildcat - Sheila W.
2. C. Maxima - Laurie F.
3. Platystele ortiziana - Valerie M.
4. Den. Maiden Charlotte - Darlene R.
5. Phal. Faciata - Laurie F.



October Show Table (cont)



- 6. *Maxillaria Picta* - Sheila W.
- 7. *Paph. Shin Apple x Hung Sheng* - Judy R.
- 8. *Lepanthes telipogoniflora* - Valerie M.
- 9. *Stelis mystax* - Valerie M.
- 10. *Phal NoID* - Bernie K.
- 11. *Mini Orchidarium* - Valerie M



October Show Table (cont)



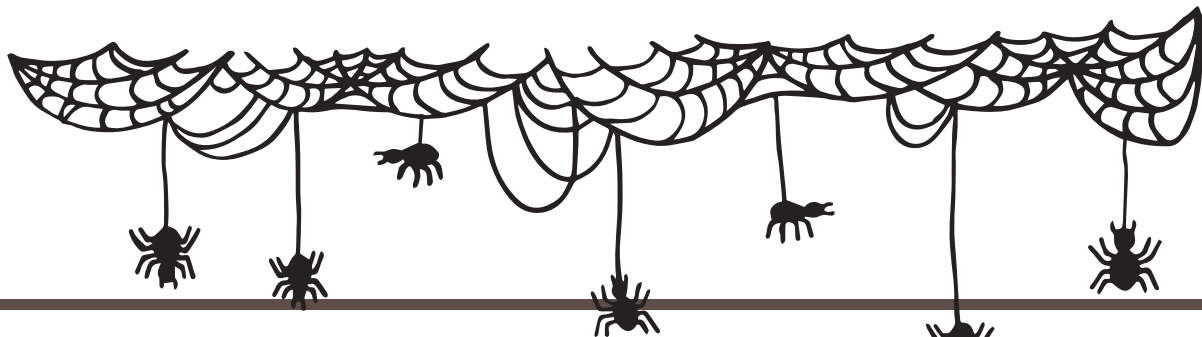
12. *Bulbophyllum Rothschildianum* - Bernie K.
13. *Stenoglottis longifolia* - Leslie M.
14. *Paph. flame arrow x Water arhst* - Judy R.
15. *Cirrhopetalum Facinator* - Glen S.
16. *Stelis hirtella* - Valerie M.



October Show Table (cont)



- 17. *Oncidium Aliceara* (Beallara) Lunatic Fringe 'Ikes Yikes' - Bernie K
- 18. *Den. Hibiki* - Brian I
- 19. *Pleurothallis montezumae* - Valerie M.



CVIOS Meeting Minutes

Oct 17, 2021

North Oyster Hall 12 pm
20 people in attendance

Sheila: Call to order

Moved to approve minutes of the last meeting: Sheila Seconded: Laurie

Treasurers Report: As presented by Darlene.

Moved to approve: Darlene Seconded: Bernie

Membership Report: Bernie - To date, there are 24 paid members (2021-2022) and 1 Lifetime member.

We know 2 members of the 46 previous members will not renew.

Bernie will put a notice in the next newsletter to remind members membership fees are due.

Announcements:

1) AOS show going ahead for March 4-7 2021

Darlene is chair and looking for volunteers. Will call the first meeting Within 2-3 weeks. Anyone who wants to help to contact Darlene

2) Visit to Paramount November 21st. 1 pm - 4:30 pm.

Darlene and Sheila willing to drive and carpool

Chuck asks that we try to spread out the times for visiting if possible

If you can't go and want to order, call Chuck to arrange and someone that is going will bring the order back for you

3) CVIOS received notice that we are officially registered with the BC Societies Act.

4) Darlene mentioned CVIOS will have to renew membership with the Canadian Orchid Congress (they provide show insurance).

Laurie and Darlene to finalize

Old Business:

Sheila will circulate a sheet next meeting for all those wanting to purchase a name tag

(cont next page...)

CVIOS Meeting Minutes (con't)

Oct 17, 2021

New Business:

There will be a November meeting the week before the visit to Paramount
This will include a bag draw so everyone try to bring something for the draw
Baking is always popular!

December will be a silent auction and luncheon. Show of hands showed most wanted
some sort of catering. Laurie will check for more information regarding the
same place we were looking at before we had to cancel for COVID
Darlene to find out the cost of a table at the Xmas sale in Sears for info/sales booth
Leslie will pick up a bark order from Orchiata early December

**General talk as to whether any large orders coming up and whether or not anyone else
will be having a show.

**Laurie would like a few more volunteers for goodies for upcoming meetings

**Michael gave a little information on the library.

It is in the storage room right now as it is difficult to get it out of the room due to the
weight of the cupboard and the lip in the doorway floor.

He is going to tidy it up and add labels where necessary. He'll look for the stamp for the
books.

We have a newsletter collection from 1973 which is interesting
A discussion on which types of books would be useful.

Meeting adjourned.

Membership Show Table: Presented in an informative way thanks to Dusty.

50/50 : about \$18 Several plants and a pair of gloves for raffle.

Leslie Milne was the speaker today on how she came to growing orchids and the process
she is going through to build a shower enclosure into an orchid tank.

Leslie's Orchid Story



By Valerie Melanson

On Sunday, October 17th, 2021, Leslie Milne, a member for about 12 years now, gave us an engaging slide show & talk - "My Orchids: A little bit about what happened when I was bitten by the orchid bug ..."

Back in the 1970s, Leslie first became interested in orchids. When perusing a friend's plant catalogue, she saw an advert for an orchid grower and loved the look of an orchid flower photo. She became further enthralled with them after reading "The Orchid Thief". She ordered a plant and its accoutrements from the States but when it arrived it was limp and the roots mushy. It died. A friend brought back an orchid from Hawai'i for her, called "My Little Pumpkin". It died. Several years later at an orchid show and sale at Art Knapp's in Burnaby, she bought 3 plants. All died.

Then the Milnes moved to Nanaimo. Leslie met Dora & noticing an orchid pin she was wearing, they got talking orchids. She came to a CVIOS meeting. She got serious. She bought a shelving unit from Canadian Tire, added plastic sheeting, a fan, lights and presto she had a grow space. She bought some plants from a grower in Duncan and had some success.

Her husband then bought her an orchidarium as a present - 2 fans, 3 sets of fluorescent lights, a timer, a vibrating mist fogger. More success!

Recently they have been renovating their house & they and the orchids have been living together in the basement. The Milnes decided to add a custom made orchidarium in the family room & it is almost operational. Leslie showed photos of its construction - a 2-sided stock metal shower stall on a raised platform with water connection on one wall for hose & sprayer and plugs above for electrical, glass walls, a cover of acrylic panels, an L shape of hanging plastic egg crate shelves on down rigger cables, a glass door allowing access to a standing area on the plastic floor that has a drain. Next to add are LED Lights. Leslie has purchased Spider Farmer SF1000 lights to be hung from rods in the ceiling. She will need to add misting (she presently has an ultrasonic vibrating system), & fans. Air exchange is to be determined once the plants move in and she starts using the new setup. Also to be determined, is whether a black out curtain is needed since the new orchidarium is in the family room.

The members had many questions and Bernie K suggested a UV gizmo in the misting system to control algae.

Leslie hopes to have the plants settled in by Christmas and will update us on developments with her state art walk-in orchidarium. We can hardly wait to see and hear more!!

Target PPF for Orchids and Tropical Plants

by Kelly McCracken

(Original article posted online at highdesertorchids.com)

Innovation in the artificial lighting industry, for the last few decades at least, has largely been driven by the cannabis industry. Houseplant growers have just in the last handful of years figured out that we can use these lights to expand our grow spaces and grow better plants under them. Now, with cheap and available lights, we can grow an amazing variety of plants that wouldn't have been possible with windowsill light alone.

There is a ton of information about how to grow cannabis under lights, and the ideal light levels, spectra, and photoperiod for it. But there is very little information about houseplants, and our specialty, orchids.

This article focuses on how we decided at what levels of light to grow our plants, what we've learned. I will talk specifically about what we are growing at what light levels.

To begin, you must understand the unit I am using. We are measuring light in PAR/PPFD. To learn more about PAR and why it is important for measuring plant light, check out my other blog post here: [PAR and PPFD for Growing Orchids and Houseplants](#).

Before we built the 3,000 sq. foot, HDO "Growhouse", we needed to do a little research about growing orchids under lights. We wanted to know the specific PAR values that were recommended for growing orchids and tropical plants. After some furious Googling and a whole lot of time spent scouring Google Scholar, we came up relatively empty to the question of "How much artificial light do orchids need?", this was fairly frustrating. There are so many products on the market. A Google search of the term "LED Growlight for sale" comes up with a whopping 144 million results. Why can't I find even one scientific article with the numbers I need?

After coming up empty on the internet, we started to consult other types of plant growers. We talked to light companies and we pleaded with orchid growers on Facebook. No one really had the data we were looking for. We just needed to do the research ourselves.

We purchased a Quantum PAR meter, the Apogee Full-Spectrum Quantum Sensor, a \$500 instrument! I took this PAR meter out to my natural light greenhouse, where I had been growing a huge variety of orchids for many years. I was comfortable with my knowledge of how the light behaved in my greenhouse. I used this knowledge to take natural light values using my PAR meter, and convert that into target light levels for our artificial light growhouse.

For example, I had a standard Cattleya hybrid (an Rlc. Kat Green Power) growing on the same spot on my bench for the last three years. This plant flowers reliably twice a year, has very bright apple green leaves, and generally grows very well in that spot. Therefore, I knew the light in this spot was bright Cattleya light. I took a PAR measurement in this spot, and various other spots in my natural-light greenhouse. I repeated this several times throughout the day (from 9 am until dark) and I averaged the values together into one ideal target light value for each type of light I was looking at (i.e. shady, medium, bright, very bright)

Target PPF for Orchids and Tropical Plants (cont)

Here's what we came up with:

50-70 $\mu\text{mol}/\text{m}^2/\text{s}$ - Under bench (Mostly growing Phalaenopsis here, some mottled-leaf Paphs, Aerangis)

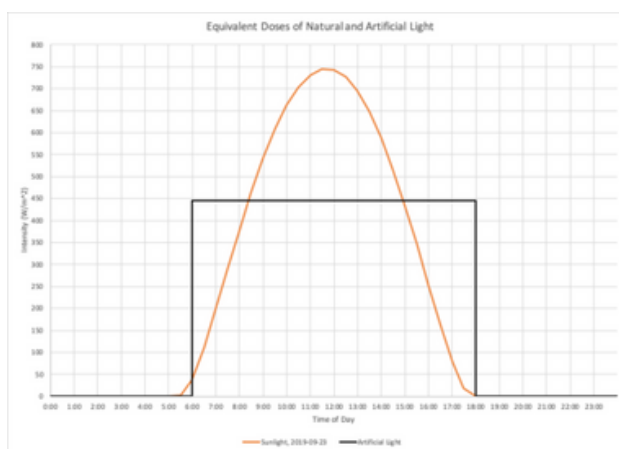
100-150 $\mu\text{mol}/\text{m}^2/\text{s}$ - Shadiest part of bench level, Northeast corner of Greenhouse (Here I grow Masdevallia, many Aerangis species, miniature Dendrobium species, some Bulbophyllum)

200-300 $\mu\text{mol}/\text{m}^2/\text{s}$ - Bright bench level (at 200 μmol level, I grow miniature Cattleya, many Sophronitis species. At the 300 μmol level, I grow Dendrobium species, larger Cattleya, Rlc. hybrids)

600-800 $\mu\text{mol}/\text{m}^2/\text{s}$ - 6" below the roof level, VERY bright light (Here I grow Brassavola species and hybrids, Rupicolous Laelias, and bifoliate Cattleya)

2,000-2,200 $\mu\text{mol}/\text{m}^2/\text{s}$ - Full sun

You might think you can just crank your lights up to these values and be good, but it isn't quite so easy.



*Note from Newsletter editor:
Original online image was poor
so copy is not legible -
my apologies. (Melanie Norris)*

Because of the nature of artificial light, it really only has two settings, on and off. Sure, you can certainly buy fancy and expensive dimmers that can replicate the path of the sun. But for the most part your lights will follow the same path as the black line in Figure 1. The lights turn on at 6am and off at 6pm. They are on at a constant brightness all day. The other curve is the average path the sun would take, on a day with a 12 hour day/night cycle.

Imagine your plant as an empty cup, to be filled with water (in this analogy water = photons of light). Your goal each day is to fill your plants' cup with just the right amount of water, drip by drip (photon by photon). You can fill this cup as the sun would, by starting out at a slower rate, and then peaking around mid-day, and then slowing down again before going dark. Or, you can fill your plants' cup with a constant, but overall lower rate. Take another look at Figure 1. The area under these two curves is identical. Meaning the plants are being given the same dose of light in both situations. Though the artificial light doesn't have the same intensity peak, it is still receiving the same amount of light it would have if it had been given a more natural daylight dose of light.

Target PPF for Orchids and Tropical Plants (cont)

If I grow my plants at the peak intensity reading that I got from measuring my greenhouse, I'm going to be overdosing my plants on light! Based on the results of this graph, we found that on a 12 hour photoperiod, plants need about 30-50% less than the full natural light values cited in our original light target estimates. We started growing using the averaged light measurements taken throughout the day, but we found that even this was still too high, and our plants are much happier at surprisingly low levels.

Here is a list of what we grow under what light levels:

Low light bench: 40umol/m²/s

Jewel orchids (Macodes, Ludisia discolor, a variety of Anoectochilus species such as roxburghii, formosanus, burmannicus, Goodyera species, Cheirostylis species) Begonia (rex Begonia hybrids), various ferns, Masdevallia species, Pleurothallis species, Phalaenopsis species and hybrids, limited low-light Paphiopedilum (Maudiae hybrids, Paph. thaianum, Paph. armeniacum, Paph. micranthum), Habenaria.

Medium light bench: 150 umol/m²/s

Miniature Cattleya (Sophrolaeliocattleya hybrids, Hadrolaelia species, various other small Cattleya), higher light Paphiopedilum (strap-leaf Paph species and hybrids), Phragmipedium species and hybrids, miniature Dendrobium species, Oncidium intergeneric hybrids (such as Oncidium Sharry Baby), Zygopetalum hybrids, Gongora species, Cynoches hybrids. Angraecum species and hybrids (such as Angraecum scottianum, Angraecum pseudofilicornu, Angraecum Gem Star, Angraecum magdalenae, Angraecum didieri, and others), Carnivorous Pinguicula, Utricularia and Drosera, and Pothos.

High light bench: 250 umol/m²/s

Standard Cattleya species and hybrids (Labiata Cattleya, Rlc. hybrids), Dendrobium species (Including Dendrobium farmeri, Dendrobium aggregatum, Dendrobium trigonopus, Dendrobium chrysotoxum, and many other species), Dendrobium hybrids (Dendrobium Densiflorum hybrids, Phalaenopsis Dendrobium hybrids, Nobile Dendrobium hybrids), Rupicolous Laelia species and hybrids, Miniature Vandaceous plants (Holcoglossum, Ascocentrum, Renanthera, Vanda), Carnivorous Pinguicula and Utricularia, Broughtonia species and hybrids, Epidendrum species and hybrids.



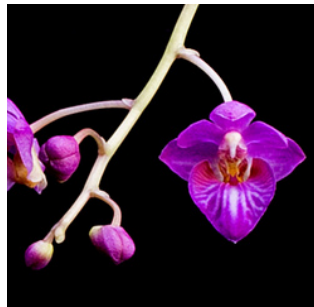
AOS Western Canada Judging Center Judging Results - Sept 11, 2021

Masdevallia Felly 'Kittiwake'

AM/AOS 80pts (20217150)

(Masdevallia Golden Tiger x Masdevallia macrura)

Exhibitor: Leda Bower



Phalaenopsis San Shia Appendo

AM/AOS 80 pts (20217152)

(Phal appendiculata x Phal pulcherrima)

Exhibitor: Pat van Adrichem | Kingfisher Orchids

(pending clonal name)

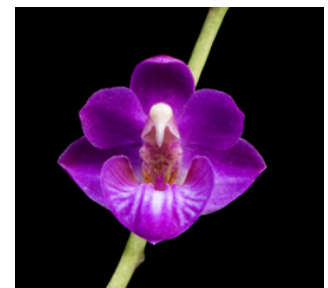
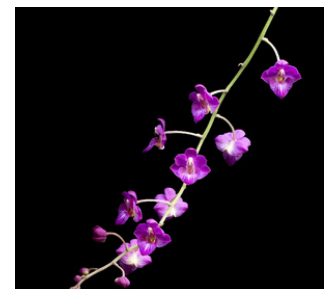
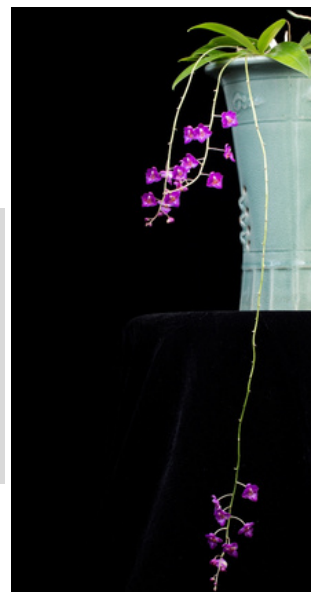
Phalaenopsis San Shia Appendo

AM/AOS 83 pts (20217151)

(Phal appendiculata x Phal pulcherrima)

Exhibitor: Pat van Adrichem | Kingfisher Orchids

(pending clonal name)



Central Vancouver Island Orchid Society

Membership Form

CVIOS mailing address: 556 Juniper Drive, Qualicum Beach, BC V9K 2J2

Website: www.cvios.org **Membership Contact:** Bernie at: CVIOS.bernie@shaw.ca

Household membership \$30.00 per year (Sept.-Aug.) CASH___CHEQUE___ E-TRANSFER___

Name(s) for membership cards(s)

Mailing Address: _____

City: _____

Postal Code: _____

Phone number: _____

Email address (This is needed for society correspondence)

How did you hear about CVIOS _____

How long have you been growing orchids? _____

Where I grow my orchids: (check all applicable)

____ Window sill

____ Under lights

____ Green house

____ Orchidarium

____ Other _____

I have (circle one) (1 - 10), (11 - 20), (21 - 35), (36 - 50), (51 - 100), (100+) orchid plants.

I hereby give permission to have the following included in the published membership list that will be distributed to members only.

Please check the ones you are willing to make public to the membership.

[] Name [] Address

[] Phone number [] email address

Signature: _____ Date _____