

Native Orchid Society *of South Australia*



Wild Orchid Watch
Field Trip

Lee Cunn

Newland Head, Nixon
Skinner Field trip Report

Lee Cunn

Diplodinium species
compared



JOURNAL

AUGUST
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Volume 43 No.7

The Committee

President

Gordon Ninnies

Vice President

Robert Lawrence

Secretary

Lindy McCallum

Email: nossa.secretary@gmail.com

Treasurer

Tony & Ros Miller

Email: nossa.treasurer@gmail.com

Ordinary Committee Members

Craig Humfrey

Rosalie Lawrence

Bob Bates

Editor

Marg Paech

Email: nossa.editor@gmail.com

Conservation Officer

Thelma Bridle Ph: 8557 6553.

Registrar of Judges

Les Nesbitt

Other Positions

Field Trips Coordinator –Lisa Incoll

Email: nossa.fieldtrips@gmail.com

Botanical Advisor

Bob Bates

Librarian

Pauline Meyers

Show Marshall

Craig Humfrey

Speaker Coordinator

John Eaton

Trading Table - Craig Humfrey

Tuber Bank Coordinator

Jane Higgs Ph: 8558 6247

Email: jhiggs@activ8.net.au

Website Manager

Rosalie Lawrence

Email: nossa.enquiries@gmail.com

CONTACTS



Mailing Address:
PO Box 14
KENSINGTON
PARK SA 5068

WEBSITE:
NOSSA.org.au



The Native Orchid Society of South Australia promotes the conservation of orchids through preservation of natural habitat and cultivation.

Except with the documented official representation of the management committee, no person may represent the Society on any matter. All native orchids are protected in the wild; their collection without written Government permit is illegal.

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Contents

TITLE / SUBJECT	AUTHOR	PAGE
Housekeeping — WOW field trip		76
July Committee Meeting Notes		77
Orchid Collecting and the Law		77
Guest Speaker notes—Kyle Howard	John Eaton	78
Winning Photo	Rosalie Lawrence	78
Diplodium species of the Adelaide Hills	Rosalie Lawrence	79
Recently Named SA Orchids	Robert Bates	80
Why the size difference between states?	Robert Bates	80
Field Trip—Newland Head, Nixon Skinner	Lisa Incoll	81
Orchid Sightings around the country		82
Benched Orchids		83
Terrestrial Culture—August	Les Nesbitt	84
I have a question!	Robert Lawrence	84
Extra photos of Field Trip		84a
NOSSA Spring Show Conditions 2019		84b

Front cover - Photos: June Niejalke.

Thelymitra matthewsii flowers are reddish purple and bluish purple. Petals and sepals are slightly different but the differences are not always obvious. The petals are purple-blue while sepals are reddish-purple with slightly darker veins.

Bulletin Board / Date Claimers

The Native Orchid Society of South Australia meets every 4th Tuesday of the months February to November at St Matthew's Hall, Crn Wellington street & Bridge Street, Kensington (just off Kensington Road). Meeting starts at 8:00 p.m. Doors to the hall open from 7:15 pm to allow Members access to the Library and Trading Table.

DATE	EVENT
August	
9th	Voting closes for Calendar Photo Poll today See July Journal for photos to vote for.
13th	Committee Meeting—7.30pm—venue: APS Club Rooms, 21a Richards Tce, Goodwood (see below)
21st—26th	ANOS conference - Strathpine, Qld Great holiday opportunity! See page 4 in February Journal for info
27th	General Meeting—8 pm start Guest Speaker: Jerry Smith Subject: "Update on the threatened orchids"
September	
7th	WOW Field Trip - Morialta Conservation Park 10 am til 1 pm—see Page 76.
10th	Committee Meeting—7.30pm—venue: APS Club Rooms, 21a Richards Tce, Goodwood
13-15th	NOSSA Spring Show and Sale
24th	General Meeting—8 pm start Guest Speaker: Robert Lawrence Subject: "Progress on WOW"
December	
7th	NOSSA Christmas BBQ at Higgs—more details later

FIELD TRIP

Field trips are held on the Saturday following the General Meeting each month.

Next Field Trip therefore, will be on **31st August**. As previously, please make contact to book your place and get further information at nossa.fieldtrips@gmail.com

ARTICLES FOR NEXT JOURNAL

Articles / Reports must reach the Editor **no later than Thurs 5th September**. Early-bird articles - so appreciated! Please send all articles to nossa.editor@gmail.com

I'd love to hear from anyone who has spotted orchids in the wild that seem a little different, or are the first of a variety to emerge or flower giving general location. This could be useful information for those doing research.

NOSSA SPRING SHOW

Our show will be held at **St Bernadette's Hall**

Saturday 14th and Sunday 15th September 10 am - 4 pm

Entrance: Gold Coin Donation

Any enquiries to Craig, our Show Marshall, if you wish to show or sell. Go along and support your club!



Any help in staging will be very welcome—please direct enquiries and offers to Lindy, the secretary on Email: nossa.secretary@gmail.com

GENERAL MEETING August 27th - 8 pm

Guest Speaker: Jerry Smith

Subject: "Update on the Threatened orchids."

Remember to bring

your orchid plants to be judged/glass jars for Les Orchid photos for 'Winning Photograph'
your name tag so everyone knows who you are.

VENUE:

St Matthews Hall, Cnr Wellington & Bridge St, Kensington.

VENUE CHANGE for COMMITTEE MEETINGS

The monthly Committee Meetings held on 2nd Tuesday each month will now be held at the Australian Plant Society (APS) Club Rooms at 21a Richards Tce, Goodwood.

This is a central spot which should make it easier for everyone. Remember, these meetings are open to everyone. Why not go along and take part.

PRIVATE FACEBOOK PAGE



This is open to any of our NOSSA paid-up members but not your non NOSSA friends. It is a place for discussing orchid issues and photos, and allows for more detail than we would share openly for the general public.

Email: nossa.enquiries@gmail.com to join.

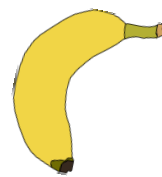
INFORMATION AND CONTACTS

i All contact details including who to contact in our NOSSA team are on the previous page. If in doubt email the Secretary who will redirect your enquiry.

Housekeeping

Field Trips

The field Trip held on Saturday 27th July was very successful in part due to the fact that there were so many patches of orchids that people didn't have to wait around to get photos and see them—they could find their own little patch. Also the mix of people saw a number with a good sense of humour. The day reminded me of reports I have read in very old NOSSA Journals about the mischief which made the field trips a lot of fun. On Saturday I got held up with a gun in my back—double barrel! When I reeled around there was Mark holding my banana in one hand like a gun and my fruit box in the other. I had inadvertently left them on a rock at lunch time. At the end of our time at Parsons, both Lindsay and I had nuts etc on offer—but I had fierce competition (Lindsay had snakes too!).



Don't forget to send an email to Lisa at nossa.enquiries@gmail.com to stay in the loop and be part of the next trip.

WOW Field Trip

Wild Orchid Watch has been spoken of at a number of general meetings. This is an opportunity to learn about and help them test the new Wild Orchid Watch app. Some of our NOSSA members will be leading a guided orchid walk.

Sat, September 7, 2019

10:00 AM – 1:00 PM

Morialta Conservation Park, Moores Road, Woodforde, SA

This event will not cost anything, but you do need to book in by 31st August if you plan to attend using the following links: <https://www.eventbrite.com/e/wild-orchid-watch-field-trip-tickets-66276586053?aff=ebdssbdestsearch>

or on Facebook <https://www.facebook.com/events/330837321197727/> pages

If you want to know more speak to Rosalie Lawrence or email her at nossa.enquiries@gmail.com

Other Shows & Opportunities:

The South Australian Orchidaceous Society Inc.

Winter Show

4-10th August

at Gilles Plains Shopping Centre



Spring show

15 - 21st September

at North Park Shopping Centre

The Enfield Horticultural Society Inc.

7th September 12-5pm and 8th September 10-4pm
at Klemzig Community Hall

Calling NOSSA Photographers

(We have been invited to take part!)

Check out the ANOS photography sections and how to enter on their website:

<https://anos.org.au/wp-content/uploads/2019/07/2019-ANOS-Conf-Show-Schedule-Updated-30-06-19.pdf>

Photography section is SECTION 6.

N.B. Rule 9 refers to having entered your photo in THEIR competition in previous years.



royal adelaide
SHOW

Check the website for
Orchid Competition

- Schedule
- Entry Form
- Flyer

ORCHID COMPETITION

2019 ROYAL ADELAIDE SHOW

The 2019 orchid competition will be one of the premier orchid shows in Australia, where orchid enthusiasts will be vying for top honours. In 2019 we welcome an interstate judge and we encourage all orchid growers to enter and display their magnificent orchids.

Sections include:

Open	For all orchid growers
School	For any School student orchid grower
Novice	For Orchid growers who are beginners / new growers
Cut Flower	For a single flower or one inflorescence
Display	For a Group, Orchid Club or School

Classes will include:

Australian Native	Cymbidium	Dendrobium
Laeliinae	Oncidiinae	Paphiopedilum
Phalaenopsis	Zygopetalum	

Prizes will include:-

Grand Champion Orchid	RA&HS Rosette & \$500.00
Champion Novice Orchid	RA&HS Rosette & \$100.00
Section Champions	RA&HS Rosette & \$100.00

ENTRIES CLOSE FRIDAY 16 AUGUST 2019

For more information visit theshow.com.au/orchids

July Committee Meeting Notes

NOSSA has been approached by Mt Lofty Districts Historical Society who are interested in orchids as part of a focus on native plants. NOSSA will contribute in the form of a display and possibly an orchid walk in September.

Lindy, our Secretary, has been using email to keep members updated with brief notes. We hope you find this helpful.

Our new NOSSA displays have been used for a Wild Orchid Watch educational session at the Museum. Good to see that we are getting out in the public eye – and our new display boards are being used!

Complementary Park Passes

Those who hold a pass should continue using the old numbers until new passes are issued. You may have already received your new one by the time you read this!

NOSSA Spring Show

Julie Doddridge has produced a completely new design for our next Show Flier. Great to see others contributing. We look forward to seeing the flier soon.

Laboratory Report/Propagation Workshop Report

The term 'Propagation Workshop' will be used in future to avoid the fears that the word 'Laboratory' brings. In 2020 Propagation Workshops will be held on the second Saturday of each month, except for September, December, January and February. These will be listed on the 2020 NOSSA calendar. A steady trickle of new people to the workshop events continues!

General Meeting Changes

Possibilities were discussed although no immediate action was decided on. However there are ongoing discussions with judges and growers, with ideas such as purchasing and using more hands-free microphones. Watch this space.

Future Committee Meeting Venue

The next committee meeting will be at the APS clubrooms, 21A Richards Terrace, Goodwood. All future Committee meetings will be held at this address.

Orchid Collecting and the Law

South Australia has some beautiful and delicate orchids. Most are not showy. Instead they have a subtle attractive beauty. But they are declining; and for that reason, they are protected by the law, specifically the Native Vegetation Act 1991. Picking the flower is illegal let alone digging up the whole plant.

The **only** situation where a person can legally remove an orchid or part thereof is when they hold a government-authorized permit. Legitimate reasons for collecting orchid material include taking a specimen for the State Herbarium, scientific research, rescue or salvage situations when a development is occurring, or collecting seed of threatened species to store with the Seed Conservation Centre.

Without a permit, no one can remove any part of a plant even if their reason is legitimate.

It is important that members be cautious of any one who asks for assistance with collecting, transporting or photographing potted orchids. Ask to see their permit. So, what do you do if you suspect someone of picking the flowers or digging up the plants? Contact the Department of Environment and Natural Resources Investigation & Compliance Unit and report your concern.

There is only a very small number of NOSSA members who hold such permits. Thelma Bridle, NOSSA Conservation Officer, is the person who will know which members hold a permit. For more information on plant collection permits, contact DEW at DEW_researchpermits@sa.gov.au or visit the website.

Thank you to Thelma Bridle and Doug Bickerton (from the Department) for their assistance and critiquing of this post. N.B. Can also be found on our website.



Guest Speaker Notes for July

John Eaton

At the NOSSA meeting on Tuesday 23rd July, members were quite literally "blown away" by our guest speaker, Kyle Howard and his photographic record of his walks in the Adelaide Hills and Mt Lofty Ranges and further afield. Kyle showed members images of the many terrestrials he has photographed on his walks - with the help of a macro-lens for close-up photography and a wider angle lens for clumps.

As a post-graduate student of Climate and Ocean science at Flinders University, Kyle brought his academic scientific disciplines to bear on his love of orchids by focusing on the associations he has observed between the many species of local, native terrestrial orchids and local climate, soils, vegetation and topography/aspect - thereby pointing members to where these terrestrials "love to grow".

Hopefully more of our members will be encouraged to plan walks and record the orchids they spot - identifying and locating their coordinates and details of the associations they observe with soils, other vegetation, aspect, rainfall etc. Kyle's talk leads nicely into the development of our NOSSA Wild Orchid Watch (WOW) App being developed by The University of Adelaide with NOSSA grant money [see page 76—WOW Field Trip]- the progress of which will be reported to members by Robert Lawrence in our September Meeting. Kyle's PowerPoint presentation, has with his permission, been added to our collection of PowerPoints of previous guest speaker presentations throughout 2017-2018-2019. To quote the crooner, Johnny Ray and, more recently, Elvis Presley

"Oh what a night it really was! Such a night!"

... and for those who missed: "Eat your heart out"!

August Guest Speaker

At the 27th August meeting, Jerry Smith will be speaking about threatened orchids that NOSSA members have been involved in - through weeding, conserving and protecting. Jerry is the new Threatened Plant Ecologist for the MLR region. Put it in your diary!

Don't forget

Winning Photo - July

Rosalie Lawrence

This is the second month in a row, that we have had a draw. Both Lorraine Badger's *Caladenia* sp. Bulbarnet (in the *C. longicauda* complex) and Lisa Incoll's *Diplodinium* sp. were equal winners. The other entrants' photos are also below.



Photo: Lisa Incoll



Photo: Lorraine Badger



Photo Rosalie Lawrence



Photo Robert Lawrence



COMPETITION GUIDELINES: Any type of photograph can be entered as long as Australian Orchids are in the subject. Though there are no other restrictions on the monthly competition, only those featuring South Australian orchids will be eligible for the calendar competition.

The two Adelaide Hills Diplodium *Rosalie Lawrence*

Sometimes photographs for the competition are sent through unnamed or with only the genus named as in the case of Lisa's picture of a *Diplodium*. The phrase name *D. sp. Adelaide Hills* is used to distinguish it from *Pterostylis alata* (syn. *D. alatum*) which is considered to be endemic to Tasmania. The eFlora-SA, the Adelaide Herbarium online key and census of the SA flora has this species listed as [Pterostylis alata \(syn. D. alatum\)](#).

In the dichotomous key found on eFlora-SA, separation between the two is primarily based upon size. *D. sp Adelaide Hills* is generally a taller-stemmed plant with a smaller flower and smaller, more slender cauline leaves. *D. robustum* is mainly a larger flower on a shorter stem. However, there is overlap between *D. robustum* and small specimens of *D sp. Adelaide Hills* which can make determination of species difficult. The table below is based on the descriptions and key from eFlora-SA, Orchids of South Australia (1990) and South Australian Native Orchids (2011).

	<i>Diplodium robustum</i> (<i>Pterostylis robusta</i>)	<i>Diplodium sp Adelaide Hills</i> (syn <i>D. alatum</i> , <i>P. alata</i>)
Plant Height	5-20cm tall (usually less than 10cm); robust stem	8-25 cm tall, slender stem;
Sterile plants	Yes	
Leaves	6 to 7 ovate or elliptic-ovate (ie range from oval to egg-shaped) leaves in rosettes on long petioles	3-8 ovate leaves in small rosettes on long petioles
Leaf edges	Smooth	
Flowering Plants	No rosettes or basal leaves	
Cauline Leaves	Alternating leaves clasping the base and increasing in size from the base upwards Acuminate (long drawn out point)	
	Broad (up to 8mm wide) lanceolate serrulate (tiny teeth) cauline leaves more than 3 cm long	Slender lanceolate, cauline leaves less than 3 cm long
FLOWER	Blooms can last for up to 8 weeks in sheltered places	Delicate flowers can collapse in strong drying winds
Inflorescence	Singular flower	
Colour	Bright-green and white with deeper green, longitudinal stripes	Pale-green or white with darker striations
Galea	Erect - Bulbous near the base	
	Length 25-45 mm Diameter more than 20 mm gradually curved forward at the apex	Length 20-25 mm long Diameter less than 18 mm gradually incurved
Dorsal Sepal	Ends in a long fine point to 5 mm long	Apex blunt—Ends in a short fine point
Petals	Blunt	Blunt or acute
Lateral Sepals	Erect; conjoined basally; distally, the tips produced into long filiform erect points, embracing the galea and greatly exceeding it	
Sinus (region where lateral sepals separate)	Flat, with a wide, shallow central v-notch; protruding in a shallow curve when viewed from the side	Narrow sinus, with a notch in the middle; not bulging
Labellum	Movable claw - nearly straight	
	Dark green	Greenish
Erect position	Reaches height of the column	Slightly exceeding the height of the column
Column	Column erect	
Habitat	Forms small to extensive colonies	
	- in rocky places;	- in rocky or shady locations;
	- in forests or scrublands	- in forest or forest-heathland
Regions	Mt Lofty Ranges	
	Flinders Ranges, Eyre Pen., York Pen., Upper S.E.	Kangaroo Island, South East, possibly Eyre Pen.
Rainfall area	Greater than 250mm	Greater than 600mm
Flowering time	May to September	May to July

Recently named SA Orchids

Robert Bates

Over the last ten years many new SA orchids have been published in the *Australian Orchid Review* by David Jones and others. Here are the latest with images.

1: Common Snail Orchid *Pterostylis setulosa*. Many years back all the South Australian snail orchids shared the one name *Pterostylis nana*. In 2006 the Aust snail orchid expert David Jones in his book *Native Orchids of Australia* stated that *P. nana* was a Tasmanian species not in SA and was not a true *Pterostylis* anyway but a snail orchid *Linguella*. This left South Australia with no named snail orchids. In Orchids of SA they were given tag names like *Linguella* sp. Hills nana, *Linguella* sp. Mallee nana, *Linguella* sp. Coastal nana and *Linguella* sp. Hale or Veined leaves. The years went by and we had to wait until February this year (2019) for Jones and French to name our most common snail orchid *Diplodinium setulosum*. That's right they named it as a shell orchid. But in the oft forgotten State we will accept anything and the name has been adjusted to *Pterostylis setulosa* by some and in SA it will be treated as a snail orchid *Linguella*. This year we have six NOSSA members photographing the six to eight snail orchids recognised here.

2: Hills Pink Fingers *Caladenia riparia* R.J. Bates is a happier story. For many years these cute pink finger orchids were included the name *Caladenia vulgaris* D.L. Jones from Vic., Tas and the SE of South Australia despite them being a poor match. Hence the author recently decided to fix the problem and name this Adelaide Hills species as a southern Mount Lofty Ranges endemic. The picture here is by honorary NOSSA photographer Jan Mahondas

3: Our most recent addition (June 2019) is a leek orchid from Elliston named *Prasophyllum gravesii* after NOSSA member Shane Graves who discovered it in October last year near his home, thus proving that it does not need to take twenty years to get an orchid named; nor do we need to travel great distances to discover a new orchid. With leek orchids it is quite acceptable to name species after the person discovering them. This is not the first time a SA leek orchid has been named after a NOSSA member. *Prasophyllum goldsackii* was named in 1978 after our first patron orchidologist Harold Goldsack. I'm sure it won't be the last time a leek orchid name honours a NOSSA member as we have several members who have been busy discovering and imaging leek orchids which are not yet named.

Why the size difference between states?

R. Bates

Why are S.A. native orchids smaller on average than those in other mainland states?

Answer: SA is the driest state on the driest habitable continent and the growing season for most of our orchids is also the cold short-daylight season. The facts above also lead to SA having fewer smaller insects and less diversity of these, especially pollinating bees and flower wasps. As the orchids must adjust to having few pollinator options natural selection leads to a greater percentage of self-pollinating species with small flower size in SA. This is especially true of large genera like *Thelymitra* where selfing species out-number the out-crossers. Our few Summer growing genera like *Diplodinium* the hyacinth orchids and *Cryptostylis* the tongue orchids in our swamps have large flowers to buck the trend and our SA *Spiranthes alticola* has larger flowers than the Eastern States' *S. australis* because it is restricted to lush swamps where it can grow very large through Summer. *S. australis*, which we don't have is a grassy woodland species dependent on spring summer rain, which is why it can't grow in SA.



Field Trip Report

Newland Head CP and Nixon Skinner CP

Lisa Incoll

On Saturday 27th July, our third field trip for the year, once again we headed down south. After a little hiccup of meeting place mix-ups (who knew that there were two intersections of Waitpinga and Range Roads – oops!) the 12 of us finally got together, all keen for a day of orchid hunting. While waiting for everyone in the group to arrive, several people couldn't wait to start exploring and went for a wander in the nearby bush. They reported finding *Leporella fimbriata* which had just finished flowering (still with dried flowers), *Corunastylis* leaves and *Linguella* sp. Adelaide Hills nana in bud.

Our first visit was to Waitpinga Beach in Newland Head CP, and with the waves behind us, we trudged up the rocky path hoping to find flowering *Coryanthes despectans*. We were not disappointed, and it didn't take long before we found many patches of flowering *despectans*. One was even flowering on a log! There were many found under bushes and we could all spread out and find our own patch to photograph! We were also happy to see *Cyrtostylis robusta* in flower including a lovely patch of about 12 flowering plants. Other species seen were *Caladenia latifolia* in bud, *Corunastylis* leaves and *Microtis arenaria* leaves.



Photo: Lisa Incoll



Photos: Lisa Incoll

We then headed to Parson's Beach where we ate our lunch before setting out to explore. We saw flowering *Acianthus pusillus* (and some capsules), flowering *Cyrtostylis robusta*, flowering *Linguella* sp. Adelaide Hills nana and some *Caladenia latifolia* in bud. I was very lucky to discover an unusual nana which was a double header, two flowers intertwined on the one plant. This created much interest and everyone converged to get a photo! There were some flowering nana which were a slightly different colour to normal with brown on the flower and sepals. There were many different leaves found including: *Arachnorchis*, various species; *Thelymitra*, various species; *Pyrochis nigricans*, *Urochilus sanguineus* sterile leaves and *Disa bracteata* (South African Weed Orchid). Other plants seen in bud were *Pheladenia deformis* and *Pterostylis pedunculata*.

By this stage it was early afternoon and people were given the option of going home or visiting Nixon Skinner CP in the hope of finding the elusive and very small *Anzybas unguiculatus*. Everyone was keen to find this helmet orchid, also known as the Pelican orchid, and all of us headed to Nixon Skinner (no one wanted to go home just yet – we were having too much fun!).

As we were walking on the path, we saw many patches of *Coryanthes diemenica* and many of us stopped to photograph them. We were reminded that our mission was to look for the *Anzybas* so we got that last photo of the *diemenica* and kept going! We looked for a long time seeing carpets of *Nemacianthus caudatus* in bud, and also buds of *pterostylis pedunculata* and *Caladenia latifolia*.

Then finally what we had all been waiting for; the shout went up that an *Anzybas* had been found by Robert! Mission accomplished! There was much excitement and people hurried to the spot to get in line for a photo! It took a while but then gradually more were found and we found a total of about eight *Anzybas* in flower. They really are an unique flower and very small. If you saw it and looked away it was hard to find again. I think the fact that there was a group of us helped us find the ones that we did. We also saw leaves of the *Cyrtostylis reniformis*, *Glossodia major*, *Pyrochis nigricans* and *Leporella fimbriata* and patches of flowering *Acianthus pusillus*.

It was a very enjoyable day, and a great time was had by all! The stars of the day were definitely the helmet orchids. We saw 3 different species - *despectans*, *diemenica* and *Anzybas*. The highlight was finding the *Anzybas* which for many of us was the first time we had ever seen it, so it was a real thrill! [See photo on left for size comparison – *Anzybas* alongside a *Nemacianthus* bud! It really is small.] A big thank you to Marg for leading the field trip! [More photos on page 84a]



Photo: Lisa Incoll



Photo: Lindsay Ames

Orchid Sightings around the Country

Port Pirie

Errol Shepherd



An early spider

Hymenochilus Cycnocephalus

"Tall Greenhoods" possibly *Linguella*

Pheladenia deformis

It has been very dry in the north and the spiders are flowering a bit earlier than usual. These were spotted in the last days of July. An unusual number of *Pheladenia deformis* were found. One of the 'Tall Greenhoods' was 30cm tall in the mass flowering patch.

**NATIVE ORCHID
SPRING SHOW
2019**

St. BERNADETTE'S HALL
SOUTH RD, ST MARYS

Corner South Rd & Walsh Ave

Entrance: Gold Coin Donation

Saturday 14 September
Sunday 15 September
10am to 4pm

nossa.org.au : Native Orchid Society of South Australia : nossa.ssecretary@gmail.com

Western Australia



Photo: John Badger

Eastern Queen of Sheba - *Thelymitra speciosa*

Taken Monday 29th July in Bremer Bay - an early flower, at Tozer's Bush Camp. The Badgers and Meyers are travelling those parts at present.

Horsnell Gully



Photo: Lindsay Ames

Taken on 24th July 2019

Benched Orchids for July

The Judging results have not been sent this month so here is a photographic record of the orchids on display courtesy of David Hirst with his trusty camera. Thank you David.

All photos: David Hirst



PLANT OF THE NIGHT

Acianthus pusillus—Don & Jane Higgs
Open Division Terrestrial Species

1st *Acianthus pusillus* Don & Jane Higgs



Terrestrial Culture - August

Les Nesbitt



The days are getting longer now, noticeably so after the middle of the month. When the clouds clear, the sun is stronger & higher in the sky. Temperatures increase and growth speeds up. Lots of buds are developing so there is plenty to see in the orchid house. The greenhoods are a feature with *Ptst. curta*, *nutans*, *pedunculata* and their hybrids are all flowering.

Pests become more active. Look out for aphids on flower stems. Depending on the season deflasking can start after the middle of the month if a sunny and dry Spring is forecast, otherwise wait until September.

The NOSSA Spring show is only a month away. Start preparing your specimen pots for the display. Any spare pots can be sold on the trading table. There are never enough terrestrials on the trading table at the show to meet the demand.

Photograph your orchids when the flowers are at peak condition. Then hand pollinate a flower or two to get seed for the NOSSA Propagation Workshop or for sowing around mother plants next autumn. Prepare two pots of each species, one for showing and one for seed.

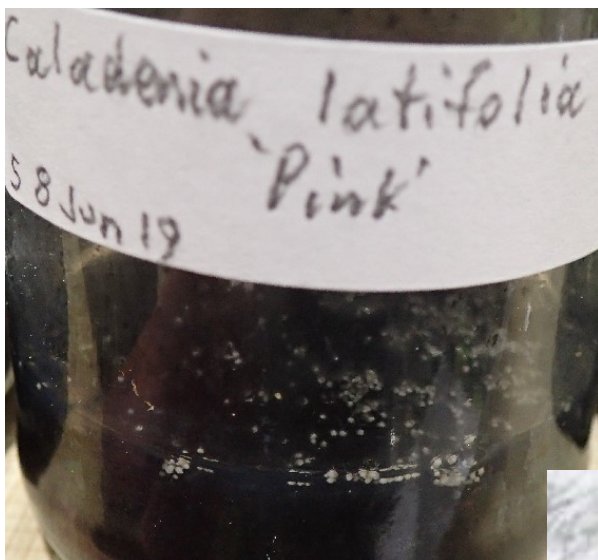
How to hand pollinate.

Look closely at the flower column to see the positions of the pollen and the stigmatic surface. Flowers can be self-pollinated if there is only one. Fatter pods with more viable seeds result if two plants of the same species are cross pollinated. That is transfer the pollen from one flower to a flower on another plant. Cross pollination mixes the gene pool to prevent inbreeding. Use a toothpick or a she-oak needle to touch the pollen which will stick to the wood. Wipe the pollen across the stigmatic surface of the other flower and the job is done.

If pollination is successful, the flower will collapse in a few days and the ovary will start to swell. For greenhoods the stigmatic surface is halfway up the front of the column. Remove the front of the flower and the lip so you can see what you are doing. Greenhoods have yellow pollen. For diuris and thelymitra the white pollen is hidden behind the sticky stigma. *Caladenia* have yellow pollen under flaps at the top of the column. Stroke upwards to open the flaps as would an insect backing out of the flower. The stigma is a hollow sticky depression just below the pollen. You will have to tip the flower right back to see it.

I have a question!

Robert Lawrence



First protpcorms from the Propagation Workshop!

I happened to look at the jars on the window sill in our kitchen and thought that the seeds looked white and bigger! The photographs are of *Caladenia latifolia* which was sown on 8 June 2019.

There is some germination of *Pterostylis nutans* and *Pterostylis robusta* 'Red' sown on the same date.

Pterostylis robusta sown on 13 July is starting to grow and *Dendrobium speciosum* is green already.

Does anyone else have results?



Distinguishing the two Adelaide Hills Diplodinium

(from page 79)

Rosalie Lawrence

Of course, as these two Diplodinium species hybridise, that will complicate things. Hybrids will have characteristics of both parents but with hybrid vigour; and vigour is one of the separating features between the two!

References:

http://flora.sa.gov.au/cgi-bin/speciesfacts_display.cgi?genus=Pterostylis&species=robusta Accessed 30 July 2019

http://www.flora.sa.gov.au/cgi-bin/speciesfacts_display.cgi?form=speciesfacts&name=Pterostylis_alata Accessed 30 July 2019

https://www.environment.sa.gov.au/Knowledge_Bank/Science_research/State_Herbarium/Resources/Publications/Book_search/Orchids_of_South_Australia Accessed 30 July 2019

Bates RJ, 2011 *South Australia's Native Orchids*, electronic

More Field Trip Photos

Waitpinga Beach

Photo: Ros Miller



Eating nuts at Parsons Beach

Photo: Ros Miller



Photo:
Leo Davis

Photo: Ros Miller



Photo: Lisa Incoll

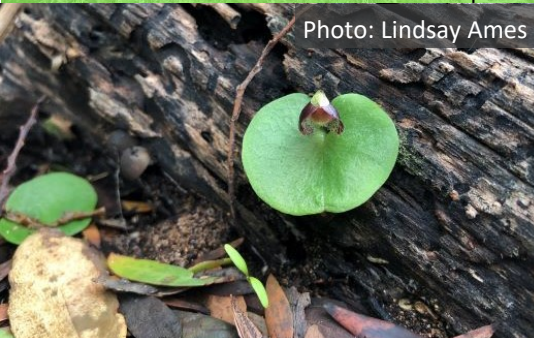


Photo: Lisa Incoll



The double headed nana—this is worth a photo!

Photo: Lindsay Ames



Lunch time at Parsons Beach

Photo: Lindsay Ames



Photo: Lindsay Ames



Corysanthes despectans

Cyrtostylis robusta

Acianthus caudatus

Photo: Leo Davis

Photo: Leo Davis

Photo: Leo Davis



Corysanthes diemenica—Nixon-Skinner

Searching for orchids— Waitpinga Beach

NOSSA SPRING SHOW CONDITIONS 2019

1. Entries of exhibits are free and open to financial Society Members
2. Setup day will be Friday 13th September between 3.30 pm and 7 pm in St. Bernadette's Hall, Main South Rd, St Marys. Judging commences at 8 am on Saturday 14th September before show opens to the public at 10 am.
3. Show closes at 4.00 pm on Sunday 15th September 2019 : all plants are to be removed by 5.30 pm.
4. No sales of plants on the trading table to members will be allowed on Friday or before the doors open at 10.00 am on Saturday morning so that everyone has a chance to buy the best plants.
5. Members wishing to sell plants or items on the trading table must have 3 flowering plants in the Show display and should help during the show.
6. All sections and classes cover Australasian Native Orchids only. Australasian means the Commonwealth of Australia and Territories, New Zealand, Papua New Guinea, Fiji, New Caledonia, Irian Jaya, Timor, Solomon Islands and Vanuatu.
7. Plants competing for prizes shall have been owned and in the possession of the exhibitor for the preceding six (6) months. This does not apply to ferns and foliage.
8. Plants exhibited in displays will be eligible for prize cards.
9. All entries exhibited in classes 101-503 are eligible for prize cards.
10. Nominations are not required. To be eligible for prizes, exhibits must have a label attached showing the plant name and exhibitors number and be exhibited by the time judging commences. Plants not eligible must show NFJ (Not for Judging) on the label.
11. There is no restriction on the number of separate entries by an exhibitor in any one class or classes. Entries in joint names will be accepted.
12. ANOS Judging Standards apply. Judges decisions shall be final and binding.
13. No prize shall be given if in the opinion of the judges a prize is not warranted.
14. Exhibits must not be removed from the display before the termination of the show, unless exceptional circumstances are involved and then only with the approval of the Show Marshall.
15. NOSSA will not be held responsible for any loss or damage to plants or other items on display and no exhibitor and/or seller of plants or other items shall have any claim against the Society or Show Officials.
16. Definition of a seedling. A seedling shall mean the complete plant grown from seed, (not a mericlone) flowering for the first time. The status of a seedling shall be retained throughout flowering season in which it first flowers.
17. Australian Dendrobium species* included in:
18. Dendrobium section Dedrocoryne are: (adae, aemulum, falcorostrum, fleckeri, jonesii sp. Aff jonesii (ruppianum), kingianum, gracilicaule, (macropus), moorii, speciosum complex, tetragonum complex.
19. Dendrobium section Monophyllaceae are: carrii, monophyllum, and schneiderae.
20. Dendrobium section Phalaenanthae are: affine and bigibbum, lithocola & phalaenopsis.
21. Dendrobium section Spathulata are: antennatum, carronii, canaliculatum complex, discolour, johannis, mirbelianum, nindii and trilamellatum.
22. Rizobium section are: bowmanii, calamiforme, cucumerinum, fairfaxii, sp. aff. fairfaxii (teretifolium complex), linguiforme, lichenastrum, mortii, (tenuissimum), prenticeii, pugioniforme, rigidum, racemosum, striolatum, shoeninum (beckleri), torresae, teretifolium and wassellii.
23. *It is the policy of NOSSA to neither accept nor reject the proposed name changes.
24. The staging of exhibits in all classes shall entirely under control and direction of Show Marshall or deputy.
25. The Society reserves the exclusive rights to photograph for its own purposes any exhibits in the show.
26. Water must not be used in any display. Early morning misting may be allowed under authority of Show Marshall.
27. The Show Marshall or his deputy reserves the right to reject, remove or rearrange any exhibit.
28. Exhibitors may use ferns and/or foliage to embellish exhibits. Such plants will not be taken into consideration when judging except for decorative effect in display classes.
29. No flowers or fruit other than native orchids may be used in any display.
30. When displays are being judged for arrangement and display, recognition will be given to displays that are uncluttered and plants are spaced to best advantage. As a guide approximately 20% of the floor area should be open to allow access by judges.
31. In the floral art classes, Australasian native orchids and non-flowering plant material must be used in all classes. Any Australasian embellishment may be used. There are no ownership restrictions.
32. Staging must be completed for the Floral Art section by 10.00 am on Saturday 14th September 2019

Any plants infested with insects or showing signs of disease will be removed from the show.