

Native Orchid Society of South Australia Inc. Journal



Diuris calcicola One of new orchid species named in 2015

Photo: R. Bates

October 2016 Volume 40 No. 9



President

Vacant

Vice President

Robert Lawrence

Email: nossa.membership@gmail.com

Secretary

Rosalie Lawrence

Email: nossa.secretary@gmail.com

Treasurer

Christine Robertson

Email: nossa.treasurer@gmail.com

Editor

Lorraine Badger

Assistant Editor - Rob Soergel Email: nossa.editor@gmail.com

Committee

Michael Clark **Bob Bates** Kris Kopicki

Other Positions

Membership Liaison Officer

Robert Lawrence Ph: 8294 8014

Email:nossa.membership@gmail.com

Botanical Advisor

Bob Bates

Conservation Officer

Thelma Bridle Ph: 8557 6553.

Field Trips Coordinator

Michael Clark

nossa.fieldtrips@gmail.com

Librarian

Pauline Meyers

Registrar of Judges

Les Nesbitt

Show Marshall

Vacant

Trading Table

Vacant

Tuber Bank Coordinator

Jane Higgs Ph: 8558 6247

Email: jhiggs@activ8.net.au

Website Manager

Rosalie Lawrence

Email:nossa.enquiries@gmail.com

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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.

Contents

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Title	Author	Page
Bulletin Board		99
Vice President's Report	Robert Lawrence	100
Sept Meeting Review	Robert Lawrence	100
YP Field Trip Report	Geoff Fisher	101
2016 The Year of the Leopards	Les Nesbitt	102
Murray Bridge Field Trip Report	Ros & Tony Miller	103
Spring Show Results	Les Nesbitt	105
Letters to the editor		105
Sep Orchid Picture Competition	Rosalie Lawrence	106
Sep Benched Orchids Results	Les Nesbitt	107
Sep Benched Orchid Photos	David Hirst	108

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Front cover - photo Robert Bates, Dec. 2015 A newly named species.

Diuris calcicola (R.J. Bates)

This new species was named in the October issue of the Orchid Review 2015 and reported in NOSSA's December journal. "It is a mallee species, growing across the limestone plains and rises from Victorian border as far as western Eyre Peninsula, often locally common. This bright yellow donkey orchid was previously included under D. pardina, a species restricted to the mountains from near Jamestown south to the Adelaide Hills. It was previously included under *Diuris* sp. Short Tails (NOSSA Journal Vol 39:11 p 128)

Bulletin Board

The Native Orchid Society of South Australia meets every fourth Tuesday of the months February to November at St Matthew's Hall, Bridge Street, Kensington. Meeting starts at 8:00 p.m. Doors to the hall open from 7:15 pm to allow Members access to the Library, Trading Table and Grower's Forum.

Date	Event
Oct 12 th Wed	Mt Lofty Gardens Public Walk
Oct 15 th Sat	Field Trip –Neagles Rock
Oct 22 nd Sat	Mt Lofty Gardens Public Walk
Oct 25 th Tues	General Meeting – Sarcochilus Show
Oct 29 th Sat	Field Trip –Scott Creek
Nov 1 st Tues	Committee Meeting – at Lawrence's home – observers welcome
Nov 4 th Fri	Journal articles due
Nov 12 th Sat	Field Trip TBA
Dec 3 rd Sat	Christmas break up and Field Trip

WELCOME TO NEW MEMBERS

- Phil & Ann Steer of Flagstaff Hill
- Nick & Caroline Dowling of Gulfview Heights
- Sue Bradstreet of Macclesfield

NEXT MEETING - OCT 25TH

Sarcochilus Show – Come and see the spectacular!

FIELD TRIPS: Michael Clark field trip coordinator

Remember bookings are essential

- October 15 Neagles Rock T. glaucophylla
- October 29 Scott Creek T. benthamiana
- November 12 TBA
- December 3 Swamp Orchids & Christmas BBQ at Don and Jane Higgs
- contact: <u>nossa.fieldtrips@gmail.com</u>

ARTICLES FOR NEXT JOURNAL

Articles need to reach the Editor no later than **Friday 4**th **Nov 2016**. Thank you.

Remember: There is no guarantee that articles received after this date will go into the journal.

CHANGED PHONE NUMBER

Please note that our Conservation Officer, Thelma Bridle, has changed her phone number to Ph: 8557 6553.

NOSSA WEBSITE

https://nossa.org.au/

DIARY DATES FOR 2016



 Christmas BBQ - Dec 3 at Don and Jane Higgs further information in next month's journal

MT LOFTY BOTANIC GARDENS PUBLIC WALKS

- October 12 Wednesday
- October 22 Saturday

FUTURE MEETINGS 2016

November 22: Members' Talks/ Christmas breakup

NOSSA 40TH ANNIVERSARY 2017

All ideas for celebrations are welcome.

MONTHLY PHOTOGRAPHIC COMPETITION

Rules of entry:

The subject matter must have something to do with Australian orchids. Any format is acceptable including Photoshopped images, artwork, etc

How to enter:

Email nossa.enquiries@gmail.com – jpg as large as you are able to send it, preferably A4 ratio for printing Post: PO Box 565, Unley, 5061 OR Bring in to the meeting.

From the Vice President

Robert Lawrence

Spring Show 2016

On behalf of the Society I want to thank all of the people who contributed to the running of another successful Spring Show this year. Several people contributed with the setting up, checking of plants for sale, staffing the sales desk and even security. The growers put a lot into their shows and the preparation of plants for sale. It was reported that there was a good display of orchids and the judging went well.



South Lofty Block Threatened Orchid monitoring

Monitoring of threatened orchid populations has been underway since the last Journal. This has been rewarding for those involved. It has been a privilege for those involved to see and count some of our most threatened orchids.

September Meeting Review

Robert Lawrence

A relatively small gathering of 20 people turned up on a stormy evening for the general meeting at which Les Nesbitt spoke about the seed kit project which were based on kits sold in Perth.

He explained that the project was now possible due to the skills applied by the *Orchids in Schools program* at Kildare College where the students have learnt how to isolate fungi from the collars of orchid plants and to grow these in laboratory conditions. Only the fungus in Pterostylis sanguinea was available and it was not known if this would assist with germination of Pterostylis

nana. However, these were the first to germinate, of the small number that did produce a leaf. A review is planned for October or November and the plan is to try growing Caladenia tentaculata next year.

In his description of the process of preparing the kits, Les told us about the time-consuming task of pasteurising the growing media. This issue generated some interesting discussion. Kris Kopicki suggested that it would be better to use boiling water and to sow as soon as the media had cooled. Kevin Western added that since pasteurising makes nutrients available immediately it is too much to keep the fungus under control. Les explained that some of the earliest seedlings had perished. Russel Hodder pointed out the tendency of growing media to become acid and that it was necessary to monitor pH and to use limestone for control.

Les has experimented with different potting mixes. There was a discussion about watering

because it was the drier, freely-draining more which mixes were successful. This was attributed to having pots rainfall. exposed to Having a cover avoids overwatering, means that pots do need watering during winter. Kevin said that it was a common misconception that orchids need to be kept wet.



NOSSA York Peninsula Field Trip Report

3rd September 2016

Geoff Fisher

In spite of the ominous weather forecast, seventeen NOSSA members braved the elements for the September Yorke Peninsula Field Trip. Even before the tour began, there were happy discoveries: meeting at Ardrossan Cemetery, eagle-eyed

enthusiasts spotted Hymenochilus

pisinnus just metres from the highway and, a little further in, several Diplodium sp. After a brief downpour, we were off to our first official site.

The threatening rain held off as Chris Davey led us on a tour through eight hectares of remnant vegetation on his childhood property on northern Yorke

Peninsula. His boy-hood experiences of exploring and bird watching with his brothers and father in this patch have led to a life-long passion for the natural environment; orchids in particular.

Today, Chris shares his enthusiasm via his Facebook page, "The Hidden Wonderland of YP Scrubs".

No fewer than twenty orchid species have been recorded at this site. The north-easterly aspect and rocky limestone ridge with its over storey of scattered mallee provide an ideal habitat, and NOSSA members were treated to swathes of

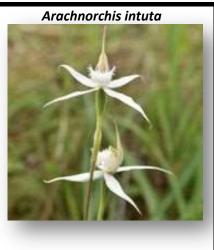
> Caladenia latifolia (including albinos and a mutant patch with an extra petal) along with Arachnorchis brumalis, plus a number of striking hybrids growing together with the parent types. Also in flower were: Hymenochilus calcicola, Acianthus pusillus, Cyrtostylis reniformis, Pheladenia deformis, palustris, Diuris **Jonesiopsis**

capillata, and Pterostylis flavovirens. Many other species were in bud or leaf. Gusty wind made photography challenging for the shutterbugs.

From there, we travelled on to Muloowurtie Conservation Park.









After a brief lunch break we set out to search for a single *Arachnorchis macroclavia* reported to be in bloom somewhere in the park. Amazingly, it wasn't long before a member spotted this proverbial needle in the haystack, while others found a handsome patch of *Pterostylis erythroconchum*, as well as scattered *Jonesiopsis capillata* in flower.

A member of the public joined us: she had been visiting the site for decades(!) to admire the orchids, intuitively appreciating just how special they were. It made one wonder just how many other treasures are well known to locals, but off the radar to anyone else! At this site there were also swathes of *Caladenia latifolia*, growing with weedy freesias. Members tiptoed around the site, while photographers cursed the steadily-increasing wind.

The hour was late; a few members elected to visit one last Conservation Park on the way home, while the rest of us decided to beat the rain. A big thank you to Michael, Rosalie, Robert and our host Chris Davey for a Most Excellent Excursion. The day was growing late but there was just time to visit one more site. Brentwood Cemetery, on the western side of the Peninsula, had a truly spectacular display of *Arachnorchis intuta*, according to reports, the best in years, most likely due to the excellent winter rainfall this season.

Orchid species from Yorke Peninsula trip:

	Site 1	Site 2	Site 3	Site 4
Acianthus pusillus		L	L	L
Arachnorchis brumalis		F		
Arachnorchis intuta				F
Arachnorchis macroclavia			F	
Arachnorchis stricta		В		
Arachnorchis tensa			F	
Caladenia latifolia		F		F
Caladenia x idiastes		F		
Corunastylis sp			С	
Cyrtostylis robusta	L	L, C	L, F, C	L, C
Diplodium erythroconchum	F, SR		F	
Diuris palustris	F	F		F
Eriochilus cucullatus		L		
Hymenochilus cycnophelus		F	F	
Hymenochilus pisinnus	F			
Jonesiopsis bicalliata			F	F
Microtis sp	F, B1	L	L	
Microtis arenaria				F*
Oligochaetochilus pusillus			1F, 1R	
Thelymitra sp *channelled			*	
+ red base no bud				
Urochilus sanguineus			FF. C	

Key

B = buds L = leaves SR = sterilized rosettes C = capsules R = Rosette

Site 1 - Ardrossan cemetery **Site 2** - Private nr Ardrossan

Site 3 - Muloowurtie Conservation Reserve

Site 4 - Bentwood Cemetery

2016 The Year of the Leopards

Les Nesbitt

Every 5 years or so the leopard orchids, *Diuris pardina*, produce super-sized flowering plants and lots of them. This year is such a super year. I have more than 100 flowering plants on or near my house site which gets slashed every summer. Most years there are only a few flowering plants. The orchid may be responding to the higher than normal rainfall. Pollinators usually remove the pollen as soon as the flowers open. However, this year has been so cold and wet that few pollinators are out and about so I have done the job for them.



Plants that carry more than one pod shrink back to two small leaves and do not flower the following year. The flowers vary in shape and colour on different plants. Some are almost black, others have elongated petals while I prefer those with round petals like table tennis bats. Seed pods will be harvested as they ripen, probably in October-November this year. Some of the seed will be sprinkled on my mother pots as this species is fungus dependent. Some will be scattered over the house site and on other parts of my bush block where there are few orchid leaves.

NOSSA Murray Bridge Field Trip Report

24th September 2016

Ros and Tony Miller

The October Field Trip was brought forward to the 24th September to take advantage of optimal flowering times. Three sites were visited:

- 1. Murray Park Flora and Fauna Reserve on the outskirts of Murray Bridge,
- 2. A short stretch of Bullers Road, about 24 km E of Murray Bridge;
- 3. The NW section of the newly declared Kinchina Conservation Park

There was a good turnout of about 23 people,

despite the cold and threatening weather. In the end, the weather was kind to us with the rain holding off while we explored for orchids at the three sites; indeed with a few sunny patches appearing as the day progressed.

At Murray Park we were guided by Glenn Dean, the Environment Officer for the Murray Bridge

council, and his wife Sarah Lance, the District Manager of Ranges to River: Natural Resource SA Murray-Darling Basin. We were amazed by the variety of orchids we saw in such close proximity: Arachnorchis, Diuris, Hymenochilus, Prasophyllum and Thelymitra. The Oligochaetochilus pusillus (Rusty

hood) was a novelty for us even though it was only in bud.

Around late morning, and with rain threatening, we moved in convoy to the Bullers Road site. During this transfer there was a heavy downpour, which meant that we had to keep an eye on the other vehicles of the group. This wasn't the easiest in the rain with the need to stop at traffic lights and

the presence of non-NOSSA vehicles, which periodically joined and left the traffic stream. There were a few times when I thought that we were lost

and were heading to Melbourne! However, in the end no one was lost.

Along Bullers Road, those in conventional vehicles transferred to 4WD vehicles as the last stretch of road was rather rough, but at least, the rain had stopped. Hurray!

The site was a 200m stretch of road, with a small 30m band of bush on either side between two cultivated fields.

Glenn explained how he had come across this site, quite by accident. Driving through he had seen what looked like an orchid so he stopped to investigate further. Once out of his vehicle, he saw not just one, but many orchids, with more and more as he walked

further.

Before we all went off to investigate this wonderland site ourselves, Leo Davis gave us all a very down-toearth talk on the morphology of orchids, using some leaves as props so that we could better distinguish the various types at the site.

Glenn was right – there were so many orchids

flowering that it was hard not to step on some. The pale pink *Arachnorchis verrucosa* and *Plumatochilos* sp. Mallee were great finds..







Arachnorchis verrucosa
Photo: Leo Davis



Arachnorchis leptochila
Photo: Leo Davis

After about an hour or so we all assembled together again and Sarah told us about some new Conservation Parks and protected bushland areas that had just been declared in the Murray Bridge district. One of these was the Kinchina Conservation Park in the Murray Bridge and



Monarto District Area. It was decided that whilst we were in the area it would be good to pay a brief visit to Kinchina to see whether there might be some orchid species present. Accord -ing to Sarah and Glenn an orchid audit of Kinchina had

not been carried out. So, after lunch, a small group of us visited the NW section of Kinchina, near the quarry at Rocky Gully. The variety of Arachnorchis seen at this site was exciting. There were so many variants. There were even pink *Arachnorchis tensa* (above) which had all cameras snapping away merrily.

Orchid species from the Murray Bridge trip:

	Site 1	Site 2	Site 3
Arachnorchis stricta	F	F	F
Arachnorchis tensa		F	F
Arachnorchis verrucosa		F	F
Cyrtostylis robusta		L, C	
Diuris palustris		F	
Diuris pardina	F	F	
Hymenochilus cycnophelus	F	F	F
Hymenochilus muticus	F	F	
Hymenochilus sp,	Ended		F
Jonesiopsis capillata		F	
Microtis sp.	L	L, B	L, B
Oligochaetochilus excels			L
Oligochaetochilus pusillus	В		
Oligochaetochilus sp.			L
Plumatichilos plumosum		F	
Plumatichilos Sp. Mallee		F	
Prasophyllum constrictum		F	
Prasophyllum odoratum	F & B	F	
Thelymitra antennifera		UoF	
Thelymitra alcockiae	UoF		
Thelymitra megcalyptra*		UoF	

^{*}Thelymitra megcalyptra at Bullers Reserve - 1 F as there was a broken stem

Kev:

F = flowers UoF = unopened flowers FF finished flowers
B = buds L = leaves SR = sterilized rosettes C = capsules
R = Rosette

Site 1 – Murray Park Reserve Site 2 - Bullers Road
Site 3 - Kinchina

2016 SPRING SHOW RESULTS

Les Nesbitt

The Grand Champion of the 2016 Show (NOSSA Trophy) was *Dendrobium tetragonum* by Kris Kopicki

2016 NOSSA Spring Show Trophies

* Roy Hargreaves Trophy for Champion Terrestrial Species

Acianthus reniformis 'Tas'

Les Nesbitt

Kay Nesbitt Trophy for Champion Terrestrial Hybrid

Diuris Earwig

L. Burgess

The Wells Trophy for Champion Epiphyte Species

Dendrobium tetragonum

Kris Kopicki

AOC Trophy for Champion Epiphytic Hybrid

Dendrobium Tom Jupp

John Gay

Champion AUSTRALASIAN Orchid No award

2016 NOSSA Nominations for other awards

Reg Shooter nomination for Australian Native Orchid Hybrid:

John Gay's Dendrobium Tom Jupp

- Bill Murdoch Trophy nomination for Champion Australian Native Orchid Species of the Year Kris Kopicki's Dendrobium Tetragonum
- Les Nesbitt Award nomination For Australian Native Orchid Species grown by South Australians Kris Kopicki's Dendrobium Tetragonum
- Herb Slade Trophy nomination no award

Other prize winners

- Champion Floral Art Restaurant centre piece Shoe Vase of Native Orchids Rosalie Lawrence
- Novice Epiphyte (Margaret Fuller Trophy) no award
- Novice Terrestrial (Margaret Fuller Trophy) no award

More details, along with photos of this great event, will appear in the November journal

Letter to the Editor



Thank you Mrs. Editor!! It is always a must-read when I see it has come through. Your way of writing is very warm, not cold and formal – a real plus for the journal.

This really is a great time of year. So many orchids about and some lovely warm sunshine to encourage us. I met another NOSSA member by chance when I was looking for orchids in a faraway place. Once he realised I was a NOSSA member he showed me all

his secret places – special orchids he keeps check on. Some weeks later we went together again in the same area to see how far they had progressed.

Lovely how membership of NOSSA can promote friendship with a complete stranger in a common field of interest. I know I am much the richer for having met him and shared those hours seeking out orchids. Four eyes find many more than one pair! MP

Editor: Thanks for the encouragement and yes it is lovely being able to share with like-minded folk, an act that will bring warm memories for years to come whilst increasing knowledge.

September 2016 - Winning Orchid Picture

Rosalie Lawrence

Spring is here and it was reflected in the variety and large number of entries. Lorraine Badger and Ros Miller entered WA species - Caladenia x ericksoniae (Prisoner Orchid) and Paracaelana nigrita (Flying Orchid) respectively. The other six entries were all from South Australia; Diplodium robustum (Common Green Shell Orchid), Caleana major (Flying Duck Orchid) both



from Jane Higgs, Greg Sara's Oligochaetochilus sp (Rufoushood), Judy Sara's Arachnorchis leptochila (Queen Spider Orchid), Clive Chesson's Diuris behrii (Cowslip Orchid or Golden Moths) and the outstanding winning picture Pterostylis cucullata by Bevin Scholz.

In many ways, Bevin's picture of *P. cucullata* (Leafy Greenhood) is a special picture because it represents some of the conservation work with which NOSSA is involved. For many years NOSSA has worked with the Threatened Plant Action Group (TPAG) to weed the areas in Belair where this species is located and to see such a good show of plants is encouraging. It is a tribute to all who have contributed with their time and labour.

P. cucullata is rated Vulnerable both in South Australia and Victoria, and Endangered in Tasmania. It is also rated Vulnerable under the EPBC Act (Federal). Nationally it is known from about 110 sites with most of these sites being in Victoria and only a few in South Australia with Belair National Park

having the largest and most important population for the state.

Historically this species covered an area of 2107 km² in the Lofty Block region but that has now contracted by 82% to only 366 km² with only a few locations. With such a reduced range, recovery plans were developed, both at

state and federal level. The plans examined the risks and threats to the survival of the different populations.

One of the threats to this orchid is fire, including prescribed burns. Unlike some species such as *Pyrorchis nigricans*, *Leptoceras menziesii* or *Prasophyllum elatum* which flower well after fire, *P. cucullata* is fire sensitive and populations decline substantially. There does not seem to be a safe time to burn for this species. Should a population survive a burn, it would take it many years to recover.

Fire also leaves the population vulnerable to another threat, that of weed invasion. Unfortunately, it is weedy where this species survives but over the years, a consistent, targeted weeding program has resulted in a declining weed population. NOSSA and TPAG have appreciated the work and effort of volunteers and gladly welcome anyone else who would like to join. And one of the rewards? A beautiful, sunlit display of flowers as seen in Bevin's picture.

Refer to Bulletin Board on page 99 for rules and how to enter

References:

Duncan, M. (2010). *National Recovery Plan for the Leafy Greenhood Pterostylis cucullata*. Department of Sustainability and Environment, Victoria https://www.environment.gov.au/system/files/resources/14e1ae30-5cf7-4be6-8a35-2c752886c14f/files/pterostylis-cucullata.pdf

Nature Conservation Society of South Australia (2009) DRAFT RESPONSE ON THE BELAIR NATIONAL PARK TRAILS MASTERPLAN: PRELIMINARY ISSUE January 2009 http://www.ncssa.asn.au/images/stories/ncssasubmission_belairnptrails_masterplan_jan09_final.pdf

Quarmby, J.P. (2010) Recovery Plan for Twelve Threatened Orchids in the Lofty Block Region of South Australia 2010. Department of Environment and Natural Resources, South Australia https://www.environment.gov.au/system/files/resources/e362cfd2-a37b-443a-b007-db3a2b7b64dd/files/lofty-block-orchids-recovery-plan.pdf

September 2016 Benched Orchids

Photos Courtesy of David Hirst

Epiphytes: Open Division Species:

1st Sarchochilus falcatusKevin Western1st Dendrobium Oliver JackSteve Howard2nd Dendrobium tetragoniumKris Kopicki2nd Den Hamilton Vicky X King WongLen Nesbitt

Hybrid

Hybrids

Hybrid

3rd Sarchochilus falcatus Kris Kopicki 3rd Ni

Epiphytes: Second Division Species

1st Dendrobium kingianum 'Lipstick' Peter Lukeman 1st Dendrobium Angus Peter Lukeman 2nd Den kingianum 'Candy Ice' Peter Lukeman 2nd Nil
3rd Den kingianum 'S Peter Lukeman 3rd Nil

Terrestrials: Open Division Species:

 1^{st} Diuris orientis

Les Nesbitt 1^{st} Pterostylis cutie

Les Nesbitt 2^{nd} Caladenia latifolia

Les Nesbitt 2^{nd} Caladenia Fairy Floss

Les Nesbitt 3^{rd} Diuris pardina

Les Nesbitt 3^{rd} Ptst cutie X baptistii

Les Nesbitt

Terrestrials: Second Division

Species Hybrid

 $1^{\rm st}$ Caladenia tentaculata Alan Braggs $1^{\rm st}$ Nil $2^{\rm nd}$ Pterostylis pedunculata Alan Braggs $2^{\rm nd}$ Nil $3^{\rm rd}$ Nil $3^{\rm rd}$ Nil

POPULAR VOTE

OPEN DIVISION *Epiphytes:*

Species: Sarco falcatusKevin WesternHybrids: Den Oliver JackSteve Howard

2nd DIVISION Epiphytes

Species: Den kingianumPeter LukemanHybrids: Den AngusPeter Lukeman

OPEN DIVISION *Terrestrials*

Species: Diuris orientisLes NesbittHybrids: Pterostylis hoodwinkLes Nesbitt

2nd DIVISION Terrestrials

Species: Caladenia tentaculata Alan Braggs

Hybrids:

Nil



Plant of the night

Dendrobium Oliver Jack Steve Howard



September 2016 Benched Orchids

Photos Courtesy of David Hirst





Dedrobiumn Hamilton 'Vicki' x King Wong 'Wow'-

Diuris orientis







Caladenia spiderman

Diuris aurea

Caladenia fairy floss







Dendrobium kingianum x self

September 2016 Benched Orchids – pt 2

Photos Courtesy of David Hirst

