

# Native Plants for New South Wales

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### Native Plants for NSW

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Editor: David Crawford  
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The Journal is a forum for the exchange of views of members and others and their experiences of propagating, conserving and gardening with Australian plants.

**Contributions** are warmly welcomed. They may be emailed, typed or hand written and accompanied by photographs and drawings. If handwritten, please print botanical names and names of people.

**Photographs** should be submitted as high resolution digital files, such as jpg.

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**This is the final quarterly issue of *Native Plants for NSW* in printed format.**

**An electronic newsletter of the same name will be issued monthly from early in 2019.**

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**Front Cover:** *Hovea acutifolia*, (no generally accepted common name). Photo: Jan Douglas.

**Back Cover:** Flower of *Pararistolochia praevenosa* (Birdwing Butterfly Vine). Photo: Jan Douglas.

See page 27 for more information.

# Introduction

David Crawford, Editor *Native Plants for NSW*

[editorNP@austplants.com.au](mailto:editorNP@austplants.com.au)

This is the last printed quarterly issue of *Native Plants for NSW*. From early 2019 an eBulletin will be emailed to members. It is intended to be monthly, with 11 issues each year. This is a major change but reflects changing norms in our society which increasingly relies on electronic distribution of news and mail. To ensure that you receive the eBulletins, please see the notice (p 19) and take action if necessary.



As editor for nearly seven years I must thank several people for their consistent support. Jan Douglas has proof-read and tidied my poor grammar and expression throughout. Regular columnists included Warren Sheather, John Knight and Bill Hardin. The value of consistent regular contributions cannot be overstated. It is very difficult to build an issue without some reliable content as a 'backbone'.

Rhonda Daniels, who has volunteered to steer the new publication through its first year, also provided excellent pre-editing and proofing. She and Wendy Grimm provided the Study Group Notes over almost the entire period. All this time, John Aitken has been the APS NSW President and Merle Thompson has been Membership Officer, while simultaneously acting as joint editors for *Australian Plants!* This brings home to me what a debt we owe them, and how much our Society needs a steady stream of new volunteers coming through. I know this sounds like a broken record, but it is absolutely critical.

Dan Clarke and Bob Ross provided the Conservation content throughout. Many others have provided one or more contributions, and these were 'gold' as they provided extra variety and interest for our wide range of members. So, thank you to one and all.

Finally, I must thank Lachlan McLaine for his layout work. His is the unseen hand that converts a rough Word document into a slick, well-presented copy, ready for printing.

With all that said, there is still an issue to introduce. The feature article tells a story of great dedication that has produced a valuable community resource. Coming events are previewed, so note the dates and support the Society while having a good day out. In future, the eBulletin will be your reference, so take the time to read it and download it to your phone or tablet so it is readily accessible.

Editing the journal has been a great learning experience – thanks for the opportunity, and bye for now.

## The Hornsby Herbarium

Barry Lees is President of APS North Shore Group and has been a keen supporter of the Hornsby Herbarium for many years.

For 25 years, members of the APS North Shore Group have been developing the Hornsby Herbarium. It is now an outstanding resource for plant identification.



Scanned image of *Dillwynia retorta* (Eggs and Bacon Pea), part of the virtual herbarium

## **What is a Herbarium?**

A herbarium is a collection of accurately named plant specimens assembled for research or educational purposes. The specimens are usually pressed, attached to a backing sheet, accompanied by an information label and stored in climate controlled conditions. In recent years, some virtual herbaria have been developed using digitised plant images and search tools. The Hornsby Herbarium is both a collection of pressed plants and a virtual herbarium of digitised images, accessible on a website. (Just search the Internet for 'Hornsby Herbarium' or visit [www.photosau.com/hornsbyherbarium/scripts/home.asp](http://www.photosau.com/hornsbyherbarium/scripts/home.asp) ).

## **Building the Hornsby Herbarium**

In about 1988, APS life member Jenny Lewis started pressing plants found near her home at Beecroft in northern Sydney. At the invitation of Hornsby Council in 1995, she widened the scope to include all vascular plants in the Hornsby Shire, including National Parks, Crown Land and other Reserves. A team of APS members helped, including Ross Doig, Pat Pike (both life members) and Noel Rosten. They went bush one day a week, collecting samples for pressing and recording all native species found on each walk. Specimens were displayed in clear plastic sleeves in A3 folders in the Hornsby Council Library. The collection is available to the public. By 2000, about 700 specimens had been collected, all endemic to the Hornsby Shire.

## **Enter the World Wide Web**

With increasing use of the internet in the late 1990s, it was decided to scan the pressed plants and develop a virtual Herbarium hosted on Council's website. Private companies were engaged to do the scanning and write online search tools. Costs were shared between Council and APS North Shore Group. In 2003 there was a grand opening by Dr Tim Entwisle, Director of Plant Sciences at Sydney's Royal Botanic Gardens, witnessed by a large gathering of eminent biologists and local people.

## **Enter home scanners**

In the following years, affordable flat-bed scanners became available for home use, including those with special CCD sensors that were best for 3D objects like plant specimens. A big decision was then made to replace all the scans of pressed specimens with scans of fresh plant material. These are nicer to look at and give more information. High resolution scans give excellent images with the ability to zoom in until very fine details are visible, without pixilation. This development makes



(L) Pressed specimen of *Brunoniella australis* (Blue Trumpet) from the physical herbarium  
 (R) scanned image of the same plant from the virtual herbarium

the Hornsby herbarium different from most other websites where the images are generated from photographs. We try to scan specimens that show flowers and/or fruit. After 15 years of searching, we have replaced almost all the original scans of pressed specimens.

### **So, where are we up to in 2019?**

Three or four of us still go bush almost every week (APS members Barry Lees, Helen Ray and Wendy Grimm when her university research work allows it). I joined the group in 2003, so 2019 makes 16 years. Now that shows dedication! (Or perhaps a sad soul with no other interests.....) We choose a track to walk and record every native species we see. We know most plants, but a lively discussion ensues over those that we can't agree on. We take small samples home so we can consult more detailed references. Occasionally we find new plants and get very excited! After each walk, we enter the plants found on a spreadsheet, listing Family, Genus, Species and Monocot or Dicot. Some tracks have been surveyed several times over 20 years, so these Species lists may be useful in future years to study the effects of climate change.

### **Some statistics for you:**

- The Herbarium website now has 906 endemic native plants on the website, with 247 common introduced plants for the benefit of Bushcare volunteers and the public
- Plants classified as rare have been found at 254 locations. GPS locations are recorded and sent to NPWS Rangers (if in a National Park), and other interested people

- 288 species lists have been compiled
- Many specimens have been sent to the National Herbarium of NSW for confirmation of our identification. Most of these have been retained for their collection
- About 35,000 plants have been entered on the Atlas of NSW Wildlife (BioNet) <http://www.bionet.nsw.gov.au/>
- Special purpose surveys have been done for NPWS
- The website gets about 16,000 hits per year.

### How do you find the Herbarium?

Just do an internet search for Hornsby Herbarium. The home page opens with a table where you can enter plant names, or parts of plant names directly, or characteristics of the plant you are looking for. For instance, if you enter Acacia, you will get a small picture of all the Acacias on the website. A couple of clicks will get you an image that you can magnify many times to reveal very fine details of the plant. I love some of these images. Try entering *Tetratheca glandulosa*; then magnify the image 600 times. You can even see the glandular hairs on the flowers that give the plant its name.

You can search by selecting any combination of search terms listed within each selection box. Alternatively, you can search by entering free text in the box provided below. See [Help with Searching](#) for guidance on building up your searches and using Boolean terms. Use the above [Help File](#) link for guidance on navigating the website.

The opening page of the herbarium website that people will find when they log on

### So, how do we complete this 25 year project?

While ever taxonomists change the names of plants, we will need to update the database. The old software is clunky and difficult to use, so making changes is not easy.

We still have about 150 images that I am not happy with. We need to find fresh specimens with flowers and fruit to scan. Many of them are elusive – we just can't find them again.

The company who owns the software that drives the website has been sold and the new owners will not support it. So we have to develop a whole new platform for the herbarium. I know very little about this computer stuff, so I find this problem daunting. While developing new software, I want to make the Herbarium website easier to use, smartphone friendly, easier to update and better looking. I have high hopes for the future!



Two scanned images of plants from the herbarium (L) *Boronia floribunda* (Pale Pink Boronia) and (R) *Boronia serrulata* (Native Rose, Rose Boronia)



# Coates Wildlife Tours

*Specialists in Nature Tours since 1986*  
*Small groups (6 – 12 passengers)*

## **WA Pilbara Reef and Ranges** ^ **EASY CAMPING TOUR**

### **14 Day Camping Tour – Departs Perth 4<sup>th</sup> May 2019**

Join us as we explore the wildlife of the Western Australian coast including the Abrolhos Islands, Shark Bay and the Ningaloo Reef before travelling inland to experience the spectacular Karijini National Park and then onto Broome.

## **Kimberley Discovery** ^ **EASY CAMPING TOUR**

### **15 Day Camping Tour – Departs Broome 12<sup>th</sup> June 2019**

Enjoy a wonderful outback experience as we discover the Kimberley's wildlife, spectacular outback scenery, Aboriginal history and many of the wonderfully refreshing waterholes. We explore Purnululu N.P, the many gorges of the Gibb River Rd, Home Valley and Mornington Stations. Tour also includes Geikie Gorge and Ord River cruises.

## **Tanami Expedition (Broome to Alice Springs)**

### **12 day Camping Tour – Departs Broome 11<sup>th</sup> July 2019**

This trip is packed with highlights including the Southern Kimberley, The Ramsar wetland "Lake Gregory", Wolf Creek Crater, The Tanami Road and Newhaven Sanctuary.

Join us and discover the wildlife as we travel from the Broome on the Kimberley coast through the remote Tanami Desert to Alice Springs in central Australia.

The trip offers a range of habitat including a variety of gorges, lake systems, desert plus the wildlife that is found at each of these points.

## **South Australian Flinders Ranges and Lake Eyre Expedition**

### **11 Day Accommodation/Camping Tour – Departs Adelaide 2<sup>nd</sup> July 2019**

This tour is a must do for all who long to experience the Australian Outback. We will cover some of South Australia's most historic outback locations in the spectacular Southern Flinders Ranges and around Lake Eyre. In the South we explore Wilpena Pound and its surrounds. In the North we visit Arkaroola Sanctuary where one of the highlights will be the spectacular, Ridge Top Tour. Around Lake Eyre we visit Maree, Cowards Springs, William Creek and Coober Pedy. Both regions offer an opportunity for a wide range of wildlife sightings. The tour accommodation is a mixture of Motel / Cabin accommodation and camping.

## **Western Explorer**

### **14 Day Camping Tour – Departs Broome 30<sup>th</sup> July 2019**

#### **Highlights – Karijini N.P, Mt Augustus and Kennedy Ranges.**

This trip is designed to coincide with the Pilbara wildflower season and provides the opportunity to explore the wonderful Karijini, Mt Augustus and Kennedy Range National Parks.

### ^ **Introducing Easy Camping**

We have introduced THE EASY CAMPING concept on a couple of our tours in 2019. This will make the whole camping experience more enjoyable. No more erecting tents, beds or un-packing camping equipment. Just pick up your bag and either spend time exploring the campsite or freshening up and relaxing before dinner.

Contact us for our full 2019 tour program: Free Call 1800 676 016  
• Web [www.coateswildlifetours.com.au](http://www.coateswildlifetours.com.au) • Email [coates@inet.net.au](mailto:coates@inet.net.au)

# APS NSW Quarterly Gathering

Saturday, 23 March 2019

## Featuring Greenwalls



Keen to find out more information about Greenwalls? Then join us at our first quarterly gathering for 2019 on Saturday, 23 March, which is being hosted by the North Shore Group, at:

**Caley's Pavilion,  
Ku-ring-gai Wildflower Garden,  
420 Mona Vale Rd., St Ives.**

Access is from Richmond Avenue after turning off Mona Vale Road.

Our guest speaker is Mark Paul, Horticulturist and Founder of The Greenwall Company. Mark is a very experienced speaker who has spoken on this topic to many groups in Australia, New Zealand, Asia, and North and South America. During his talk, he will share his expertise with us on the design, construction and choice of plants suitable for greenwalls.

Mark created what is believed to





be the very first greenwall in Australia over 30 years ago. His company is involved in greenwall design and construction, in a wide range of residential, commercial and public works.

In a recent media release, Mark stated “We have been working tirelessly on creating new forms of eco-friendly greenwalls for all types of spaces, including new designs for high-rise buildings. Not only do greenwalls look fantastic on the exteriors of the buildings, but they truly transform the aesthetics and atmosphere of the street, and surrounding areas, not to mention the health benefits.

For further information about projects Mark’s company has created, visit the company website at <https://greenwall.com.au>

**Program:**

**10.30 am Walks and talks.**

A choice of two guided walks around the gardens;

- Walk 1 will visit the rare plants in the garden and the propagation area;
- Walk 2 will look at the rainforest plants in the gardens.

**12 – 1pm Lunch.** Bring your own lunch. Tea and coffee will be available.

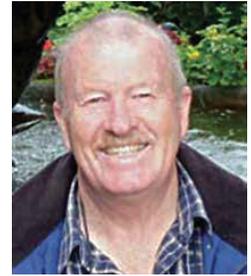
Plants will be on sale during lunch time.

**1-3pm: Mark Paul’s presentation on Greenwalls,** and afternoon tea.

## President's Report

I hope that you all had a wonderful Christmas period and a great start to the year.

Congratulations to Merle Thompson, APS NSW Life Member and Membership Officer, for her award of the Order of Australia (OAM) medal she received in the Australia Day awards list. Merle thoroughly deserves this public recognition for her dedicated service to the community through a range of organisations including Polio NSW, Australian Federation of Graduate Women and the Australian Plants Society NSW (APS NSW). Merle has been a tireless worker for APS NSW and we all owe her a debt of gratitude for the enormous amount of work she does for the organisation, not only in her role as Membership Officer but in the advice she freely gives and the wisdom she shows during Board discussions.



The November 2018 gathering was once again a successful event at which we heard Lawrie Smith talk about landscape design principles. Prior to his retirement, Lawrie was a leading landscape architect and he is the current leader of the ANPSA Garden Design Study Group. Lawrie generously gave up his valuable time to fly from Brisbane to share his expertise and experiences with us. I had the opportunity to take him to visit three gardens whilst he was in Sydney: Sylvan Grove at Picnic Point, Joseph Banks Reserve at Kareela and the garden of Joan Zande (APS Sutherland member), also at Kareela. Lawrie was very impressed with all three gardens and he took many photos which he will incorporate into a presentation he will give about the gardens to the Garden Design SG.

Thank you to the members of the Sutherland Group who, once again, generously hosted the event and for their efforts to make it a very successful day. I also wish to thank John Arney, Sutherland Group, who organised and led a Sunday walk through the Kamay National Park at Kurnell, where we saw many of the plants that Banks and Solander discovered on their visit to the area in April 1770.

In previous years, a Presidents' dinner has been held in conjunction with the annual weekend Get-together. As there was no get-together in 2018, APS NSW invited Presidents or their representatives to attend a workshop on the morning of the November gathering to discuss the successes and challenges at both the State and Group levels. Eleven groups were represented and I would like to thank each of the delegates for their valuable and insightful contributions. I was especially heartened by their support for APS NSW and their suggestions of ways to reduce

the workload of the Board members. Special thanks to Barbara and John Nevin from Armidale, Tim Hayes from Southern Tablelands, Janice Hughes from Nowra, Margaret Gaul from Blue Mountains and John Andrews from Central Coast, who all travelled long distances to attend the workshop. I would also like to thank Heather Miles, the Honorary Secretary of APS NSW for the magnificent job she did in facilitating the workshop. An excellent and concise summary of the Presidents' Workshop can be viewed in the members' section of the APS NSW website.

One of the decisions that arose from the meeting was to cease producing the *Native Plants for NSW* journal in its present form and replace it with an online monthly news digest, or something similar, with Groups taking on the role of distributing hard copies to those members without email access. Most organisations are now producing electronic bulletins for their members.

Our current editor, David Crawford, has done a magnificent job over many years in editing and producing a high quality journal. David feels that it time for him to move on and as there was no one to take up the baton from him, the Board had little option but to look for other alternatives to inform our members. At its December meeting, the Board discussed the suggestions that *Native Plants for NSW* be replaced by a monthly or bi-monthly newsletter. I would like to thank David for his commitment and efforts to produce a highly professional and informative journal.

I highly recommend that all APS NSW members visit the members' section of the APS NSW website ([www.austplants.com.au](http://www.austplants.com.au)) and read the Board papers. The information they contain provides a valuable insight into the topics that are discussed and the decisions that are made by the Board.

APS NSW is responsible for organising the 2021 ANPSA Biennial conference. Preliminary planning is well underway and it is heartening that a number of members have offered to assist. The many NSW members who have attended a biennial conference will be aware of the enormous effort and organisation that is required to prepare and run a successful conference. I urge you not to leave it to the few people who have so far volunteered but consider how you could contribute in such areas as:

- Tours, pre- and post-conference
- Accommodation for attendees.
- Organisation of suitable speakers
- Daily excursions.

***Continued on page 30***

## Future event

# AGM and Quarterly Gathering

**Saturday, 18 May 2019**

**Blaxland Community Hall**

**33 Hope Street, Blaxland**

## Plants with a Bite

This gathering will be hosted by APS Blue Mountains Group and is being held in Blaxland in the lower Blue Mountains. The venue is close to the highway and railway station.

Are you keen to find out about Australian carnivorous plants?

- what they are,
- what they eat,
- how they capture their prey, and
- how to grow and maintain them in cultivation?

So little is known about these plants, yet Australia has one of the world's richest carnivorous plant floras.

Our guest speaker Greg Bourke has an unbridled passion for these highly unusual plants and will answer all your questions.

Greg has been fascinated by carnivorous plants from an early age and has become an established expert in the industry. He is a co-author of the authoritative book, *Australian Carnivorous Plants*. He is currently Curator-Manager, of Blue Mountains Botanic Garden, Mt Tomah. He is also Vice President of Botanic Gardens Australia and New Zealand.



Greg is a wonderful speaker who will enthrall you with his extensive knowledge of and passion for Australian carnivorous plants. This is an opportunity that should not be missed.

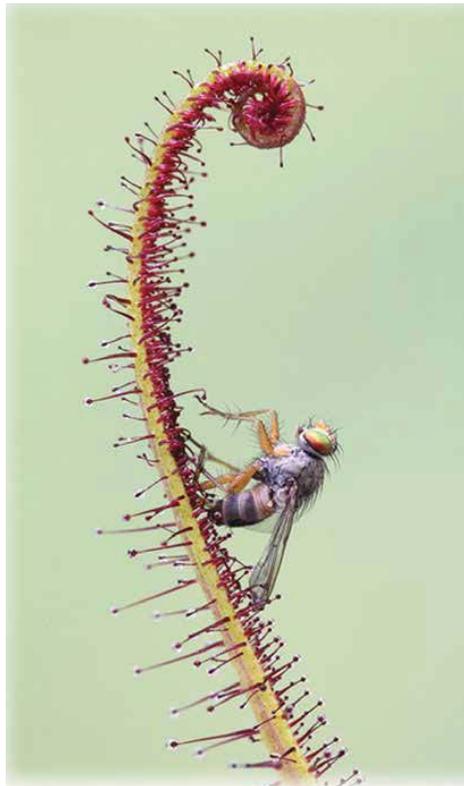
There will be a selection of plants, including carnivorous plants, for sale.

You can hear more of Greg's passion for 'plants with a bite', by listening to Richard Glover's program with him on *Self-improvement Wednesday*, ABC 702, at [www.abc.net.au/radio/sydney/programs/drive/siw-gregbourke/10124412](http://www.abc.net.au/radio/sydney/programs/drive/siw-gregbourke/10124412)

## Program for the day

In the morning you will have a choice of a short walks in Blue Mountains bushland with experienced guides

**9.45 am** Short walk Pippa's Pass, led by Jim Ward. Meet at Blaxland Library car park, 33 Hope St., Blaxland at 9.45 am for 10 am start. The walk is a little rough at the beginning with a few uneven steps and may be slippery if wet but then it levels out and becomes easier. We would expect to see some of the common Blue Mountains species (see [www.apsbluemtnsgroup.org](http://www.apsbluemtnsgroup.org) and click on Bushcare, Reserves and Walks, Pippas Pass, for a plant list). *Xanthosia pilosa* and the Green Grevillea, *Grevillea mucronulata*, occur near the start of the walk.



**10 am** Glenbrook Native Plants Reserve and Nursery, at 41 Great Western Highway, Glenbrook (Opposite Tourist Information Centre), for a guided walk around the reserve and an opportunity to buy plants.

**12–12.30 pm** Lunch. Bring your own, tea and coffee will be provided.

**12.30–1 pm** **APS NSW Annual General Meeting**

**1–2 pm** **Greg Bourke, *Plants with a bite.***

**2–2.30 pm** **Afternoon tea & plants sales**

**2.30–3 pm** **Greg Bourke, Growing and maintaining Australian carnivorous plants.**

There is a registration fee, to offset cost of the hall, speaker's gift and afternoon tea of \$5 for APS Members or \$10 for Non-members.

**Note the Annual General Meeting of APS NSW will be held in conjunction with this gathering at 12.30 pm. The agenda and a proxy form for those unable to attend is included in this publication on pages 20 and 39 respectively.**

**Future event**

## **APS 2019 Get-Together Newcastle Area**

**Saturday 17 & Sunday 18 August 2019**

APS NSW is happy to advise that a weekend Get-together is planned for later this year. It will be hosted by the APS Newcastle Group on Saturday 17 & Sunday 18 August 2019.

You are cordially invited to this not-to-be-missed event which is being



held at several locations in the Newcastle area.

There are a range of different native vegetation communities available to explore. Your visit will take you to some of the gems of the area and you will be able to see the spectacular coastal flora at its peak.

A highlight will include a visit to the Hunter Wetlands Centre where you will be welcomed to the Newcastle Group's home base. This will also include the opportunity to purchase native plants from the wide range produced by the "Thursday Mob". More details from the website [www.wetlands.org.au](http://www.wetlands.org.au)

The program also includes a visit to the award-winning Hunter Region Botanic Gardens and herbarium at Heatherbrae. Again more information about this location is on the web at [www.huntergardens.org.au](http://www.huntergardens.org.au) .

There will be some gentle bushwalks included, these will feature some of the special places that can be found in the Newcastle area.

There will also be an evening dinner to look forward to on the Saturday night.



More details including registration forms and prices will be covered in coming issues of *Native Plants for NSW* (eBulletins).

So, please save the dates – **17 & 18 August 2019**



Another image supplied by Barry Lees for the Hornsby herbarium article (page 4) *Acacia oxycedrus* known by the common name of Spike Wattle. This scan shows the ability of the virtual herbarium to display true colour and three dimensional objects such as the flower spikes, seed pods and thick stems which would be distorted in a pressed specimen

## New members January 2019

Merle Thompson, Membership Officer

The Australian Plants Society NSW warmly welcomes the following 41 new members (36 memberships) and wishes each of you a long, rewarding and enjoyable association with the Society.



Gary Bickford & Judi Hansen	Balmain
James Biggam	West Wyalong
Alison Billing	Forestville
Michelle Carroll	Wallalong
Jian Chen	Epping
Robyn Compton & George Raghavan	Tapitallee
Helen & Mike Dower	Gundaroo
Andrew & Lydia Eatough	Chatswood
Matt Garrett	Dangar
Robyn George	Salamander Bay
John Graham	Castlecrag
David Hall	Brogo
Roma Harris	Urunga
Susan Hawick	Burradoo
Barbara Hoffman	Jannali
Karl Hosking	Berowra Heights
Janice Jordan	Adamstown
Anne Keaney	Stanwell Park
Christine Kelly	Burradoo
Matt Kinsela	Kotara
Thomas Lee	Stanwell Park
Julia Munro	Menai
James Palmer	Armidale
Ruth Punch	Lake Haven
Joanna Rodwell	Renwick
Suzanne Roth	Blackheath
Maryanne Sansom	Beecroft

Dora Shapiro  
Amanda Snelling  
Jenny & Peter Solomon  
Catherine Stofka  
Clare Talbot  
Todd Whitla  
Paul Wodrow  
Eric Worton  
Charles Youssef

Miranda  
Gladesville  
Byng  
Tascott  
Murrays Beach  
Scone  
Leura  
Bellbird  
Speers Point

**We welcome back**

Jannene & Tony Finnemore  
Ellen Hrebeniuk

Tanilba Bay  
Lidcombe



## **Important notice to members**

### **Email Addresses**

Is your email address correct on the APS NSW membership data base?

If the address is not correct you may not be receiving our emails and you will not receive the new eBulletins. If you have an old address which has not been discontinued but is not operable the system may indicate that messages have been delivered when this is not the case.

How do you know? Messages were sent to all members with valid email addresses on 6 September 2018, 17 October 2018 and 18 February 2019. Did you get them?

In addition all members should get a notice that their renewal is due 14 days before the renewal date and two reminders if payment is not made.

If you have NOT received these messages your email address is probably incorrect.

What to do about it? Log in to the website [www.austplants.com.au](http://www.austplants.com.au) using your old email address and change your email address or send a message to the Membership Officer using [merleaps@bigpond.com](mailto:merleaps@bigpond.com)

# APS NSW Annual General Meeting

**The Australian Plants Society NSW Ltd**  
**A company limited by guarantee**

Notice is hereby given that the Annual General Meeting of the Australian Plants Society NSW Limited will be held on Saturday, 18 May, 2019, commencing at 12.30 pm at the Blaxland Community Hall, 33 Hope Street, Blaxland.

Agenda.

1. Welcome
2. Apologies
3. Declaration of proxies
4. Minutes of previous Annual General Meeting held 26 May 2018
5. Business arising from previous Annual General Meeting
6. President's report
7. Other reports
8. Financial reports
9. Election of Life Members
10. Conservation Award
11. Election of officers

A proxy form for the AGM is included in this issue of *Native Plants for NSW* and is available from the members' section of the APS NSW website at [www.austplants.com.au](http://www.austplants.com.au). The proxy form is for members who are unable to attend the AGM but who wish to nominate a proxy to vote in their absence.

**Please note that** members will NOT receive a copy of the Annual Report, unless they have specifically requested the Office to send one either by email or post. The annual report will be available for members to view on the APS NSW website at [www.austplants.com.au](http://www.austplants.com.au) from late April.

Any questions of a financial nature arising from the Annual Report are to be forwarded to the Australian Plants Society NSW Ltd. office either by email, or post by midday, Wednesday, 15 May 2019. All responses will be given to members at the AGM.

Contact APS NSW: Email [office@austplants.com.au](mailto:office@austplants.com.au)

or

PO Box 263, Cremorne Junction, NSW 2090

# District Group directory

District Groups are located in many areas throughout New South Wales and range in size from fewer than 20 to over 100 members. Group members are able to take part in many activities including bushwalks, bush regeneration and conservation projects. Regular meetings enable members to keep in touch with people of similar interests and to hear expert guest speakers. Contact the Secretary of a specific group for further information.

## Armidale and District

President: Barbara Nevin ☎ (02) 6775 2128  
Email: barbnevin@gmail.com  
Secretary: Penelope Sinclair ☎ (02) 6771 5639  
PO Box 735, Armidale NSW 2350  
Email: apsarmidale@gmail.com

**Meetings:** ASCA House, 166 Barney Street, Armidale (alternating with excursions) 3rd Saturday of the month at 2.00 pm (excluding December, January, June & July).

## Blue Mountains

President: Dick Turner ☎ (02) 4739 5362  
Secretary: Alix Goodwin ☎ 0450 430 891  
PO Box 23, Glenbrook NSW 2773  
Website: www.apsbluemtnsgroup.org

**Meetings:** Native Plant Reserve, Great Western Hwy, Glenbrook  
1st Friday of the month at 8 pm (Sep-May) and  
1st Sunday of the month at 10 am (Jun-Aug).  
No meeting when there is an outing in the month.

## Central Coast

President: Pat Carlton ☎ (02) 4394 0228  
Secretary: Joan Harden ☎ (02) 4325 3807  
Email: aps.cc.secty@gmail.com

**Meetings:** Phillipp House, 21 Old Mount Penang Road, Kariong  
Generally 2nd Friday of the month (excl. Jan, Dec) at 7.30 pm but winter meetings on Saturday afternoons. Check website for details.  
Website: www.australianplants.org

## Central West

President: Roy Menzies ☎ (02) 6337 7388  
Email: rjmenzies@activ8.net.au  
Secretary: Lyn Burgett ☎ (02) 6331 9170  
Email: l.burgett@bth.catholic.edu.au

**Meetings:** Monthly outings to various locations. Contact the secretary for details.

## Coffs Harbour

President: Alison Moore ☎ 0439 597 118  
Email: anchorsmoore@westnet.com.au  
Secretary: Robert Watt ☎ (02) 6655 0043  
PO Box 241 Bellingen NSW 2454  
Email: rob8milehill@yahoo.com.au

**Meetings:** Coffs Harbour Botanic Gardens Display Room normally on the 2nd Tuesday of each month alternating between day (10 am) and evening (7 pm). Excluding January.

## East Hills

President: Graham Fry ☎ (02) 9580 6621  
Email: fryg45@gmail.com  
Secretary: Liz Cameron ☎ (02) 9580 6621  
Email: elsmere02@gmail.com

**Meetings:** Lugarno–Peakhurst Uniting Church  
909 Forest Road, Lugarno  
1st Wednesday of each month at 7.30 pm (excluding January).

## Hawkesbury

Contact: Arthur Rutter ☎ (02) 4577 3271  
99 The Terrace, Windsor NSW 2756  
Email: aande42@bigpond.com.au

**Meetings:** This group was re-launched at the APS NSW gathering in November 2014.

## Hunter Valley

President: David Williams ☎ 0439 505 899  
Email: davidvacy@gmail.com  
Secretary: Andrew Pengelly ☎ 0468 535 234  
30 Lindsay Rd North Rothbury NSW 2335  
Email: apengelly@muih.edu

**Meetings:** (Except winter see below) The Polish Hall, Cnr Grant & Old Rose Sts, Maitland  
3rd Wednesday of the month at 7.45 pm. Winter (Jun-Aug) 3rd Sunday of the month at 10 am in members' gardens.

## Illawarra

President: Kath Gadd ☎ 0414 333 475  
Email: kath@malleedesign.com.au  
Keith Hunter ☎ 0481 599 008  
Email: keithjohnhunter@gmail.com

Facebook: type 'APS Illawarra' in the Facebook search bar.

Activities: This group is aiming to have an activity each month – check the Facebook page or contact the leaders.

# Australian Plants Society NSW

A Charitable Company Limited by Guarantee

## Membership application and renewal form

### Please select your application type.

New member. I wish to apply for membership of the Australian Plants Society NSW Ltd and agree to the Memorandum and Articles of Association at [www.austplants.com.au](http://www.austplants.com.au)

Renewing member: Membership number \_ \_ \_ \_ \_  
Please tick if any details have changed from last renewal

Gift membership. Donor name \_\_\_\_\_  
Include any personal card you wish to accompany the new member's pack.

### 1. Complete your details

Name(s) \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Email \_\_\_\_\_

Phone ( ) \_\_\_\_\_

District Group (if relevant) \_\_\_\_\_

### 2. Select your membership type

*12 months membership. Rates at 1 January 2017. GST inclusive. Joint membership applies to two people at the same address. Each receives a membership card. A concession is available to Seniors, people on a limited fixed income and full-time students.*

- |   |          |  |      |
|---|----------|--|------|
| <input type="checkbox"/> Individual                   | \$56     | <input type="checkbox"/> Individual – Concession | \$48 |
| <input type="checkbox"/> Joint                        | \$66     | <input type="checkbox"/> Joint – Concession      | \$58 |
| <input type="checkbox"/> Overseas                     | A\$60    | <input type="checkbox"/> 3 year renewal          | 3x\$ |
| <input type="checkbox"/> Optional donation to APS NSW | \$ _____ |  |      |

### 3. Select your payment method

Cheque or money order payable to Australian Plants Society NSW

Visa       MasterCard

Card number      \_ \_ \_ \_ / \_ \_ \_ \_ / \_ \_ \_ \_ / \_ \_ \_ \_

Expiry date      \_ \_ / \_ \_

Cardholder's name \_\_\_\_\_

Cardholder's signature \_\_\_\_\_

Direct deposit

Bank              ANZ

Account name    Australian Plants Society NSW Ltd

BSB                012 352

Account no.      302 301 693

Please use as the reference your surname and 6-digit membership number which is on your membership card and your journal mailing envelopes. Please email [merleaps@bigpond.com](mailto:merleaps@bigpond.com) to advise of your deposit.

### 4. Return your form by post or email

Australian Plants Society NSW  
Membership Officer  
PO Box 3066  
BOWENFELS NSW 2790

#### Membership inquiries

Merle Thompson, Membership Officer  
[merleaps@bigpond.com](mailto:merleaps@bigpond.com)  
Ph (02) 6352 3805      Fax (02) 6351 2384



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[www.austplants.com.au](http://www.austplants.com.au)

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## District Group directory continued

### Macarthur

President: Robin Davies ☎ (02) 4653 1275  
Secretary: Rod Bray ☎ (02) 4647 9928  
147 Holdsworth Drive, Mt Annan NSW 2567  
Email: yarbdor@westnet.com.au  
**Meetings:** Birriwa Reserve Clubrooms on Waterworth Drive Mt Annan NSW 2567. 3rd Wednesday of the month at 7.00 pm (Feb-Nov).

### Menai

President: vacant  
Vice President: Pam Pitkeathly ☎ (02) 9771 9789  
Email: pit.keath@bigpond.com  
Secretary: Annette Tuckfield ☎ (02) 9543 1490  
Email: menaiwildflower@austplants.com.au  
PO Box 3104, Bangor NSW 2234  
**Meetings:** Illawong Rural Fire Service.  
2nd Saturday of the month at 1 pm (Apr–Oct)  
2nd Wednesday of the month at 7.00 pm (Feb, Mar and Nov). No meeting Jan or Dec.

### Newcastle

President: Mark Abell ☎ (02) 4969 5067  
Email: president.aps.newcastle@gmail.com  
Secretary: Maree McCarthy ☎ (02) 4943 0305  
Email: secretary.aps.newcastle@gmail.com  
**Meetings:** The Wetlands Centre, Sandgate Rd, Shortland  
1st Wednesday of the month at 7.30 pm (excluding January).

### Northern Beaches

President: Conny Harris ☎ (02) 9451 3231  
Email: northernbeaches@austplants.com.au  
Joint Secretaries:  
Julia Tomkinson ☎ (02) 9949 5179  
Penny Hunstead ☎ (02) 9999 1847  
PO Box 393 Dee Why NSW 2099  
**Meetings:** Stony Range Botanic Garden, Dee Why. 1st Thursday of the month at 7.15 pm (Feb-Nov).

### North Shore

President Barry Lees ☎ 9653 3691  
Email: president@blandfordia.org.au  
Secretary: Sue Bowen ☎ 0478 957 951  
PO Box 141 Roseville 2069  
Email: secretary@blandfordia.org.au  
**Meetings:** Willow Park Community Centre, 25 Edgeworth David Ave, Hornsby.  
2nd Friday of the month at 8 pm (Feb-Nov).  
Website: www.blandfordia.org.au

### Nowra

President: Lesley McKinnon ☎ (02) 4421 3212  
Secretary: Gwen Smith ☎ (02) 4443 3497  
PO Box 180, Tomerong NSW 2540  
Email: austplantsnowra@gmail.com  
Facebook: australianplantssocietynowra  
**Meetings:** North Nowra Community Centre  
7 Hood Close, North Nowra. 2nd Thursday of the month (Feb-Nov) at 7.30 pm.

### Parramatta and The Hills District

President: vacant  
Secretary: vacant  
Email: info@apsparrahills.org.au  
**Meetings:** Bi-monthly meetings 2 pm on 4th Saturday of Feb, April, June, August, Sept and Nov at Gumnut Hall, Gumnut Place, Cherrybrook  
Website: www.apsparrahills.org.au

### South East Region

President: John Knight ☎ 0434 674 347  
Email: johnnonvista49@outlook.com  
Secretary: Michele Pymble ☎ (02) 4473 8587  
Email: secretary.apsse@gmail.com  
**Meetings:** At various locations, generally on 1st Saturday of every month except January.  
Contact President or Secretary.  
Website: southeast.austplants.com.au

### Southern Highlands

President: Kristine Gow ☎ (02) 4861 1913  
Email: krislloyd2@bigpond.com  
Secretary: Kay Fintan ☎ (02) 4861 2594  
Email: kaynbrian@bigpond.com  
2 Sir Donald Bradman Drive Bowral 2576  
**Meetings:** CWA Room, next to Council building in Elizabeth St, Moss Vale at 2 pm on the first Thursday of Feb, Apr, Jun, Aug and Nov.

### Southern Tablelands

President: Tim Hayes ☎ 0468 472 237  
Email: knockaroura@skymesh.com  
Secretary: Bob Galland ☎ 0407 248 154  
PO Box 1046 Goulburn NSW 2580  
Email: rcgalland1@bigpond.com  
**Meetings:** Only when essential – our group is concentrating on walks and other activities.

### Sutherland

President: John Aitken ☎ (02) 9589 1363  
Email: jeaitken@gmail.com  
Secretary: Leonie Hogue ☎ (02) 9528 6083  
Email: leoniehogue@gmail.com  
**Meetings:** Gymea Community Centre, Gymea Bay Rd, Gymea. 3rd Wednesday of the month at 8 pm (February–November).  
Website: www.sutherland.austplants.com.au/

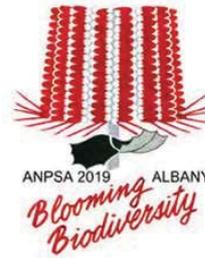
### Tamworth

President: Matt Cosgrove ☎ (02) 6765 2693  
Email: cosgrove72@bigpond.com  
Secretary: Martin O'Rourke ☎ 0409 036 668  
PO Box 1193, Tamworth NSW 2340  
Email: apstamworth@gmail.com  
**Meetings:** Botanic Garden Meeting Room.  
9.30 am on 4th Saturday Feb to Nov. Outings and field trips at other times – contact the Secretary.

## BLOOMING BIODIVERSITY

# ANPSA 2019 CONFERENCE

**Albany Western Australia 29 Sept –  
4 Oct 2019**



Who hasn't lusted after Western Australian wildflowers? Now you have a great opportunity to see them for yourself in their own amazing environment, accompanied by people who know them well and are keen to share their knowledge with you! This year the Australian Native Plants Society (Australia) is holding its national conference in Albany, 420 kilometres south-east of Perth, on the south-west coast of Western Australia. Albany is in a beautiful and biologically diverse area, known for its scenic coastline, fabulous flora and rich history.

The conference aims to introduce participants to the area, with a combination of interesting speakers and field trips during the conference. The Albany Flower Show immediately preceding the conference will showcase 500 wildflower specimens, providing another opportunity to get up close and personal with WA wildflowers. There are four optional pre- and post- conference tours:

1. Kwongan and Woodland – wildflowers of the northern heaths and inland woodlands (seven days)
2. Granites and Lowlands – forests of the Darling Scarp and central Wheatbelt woodlands (two days)
3. Heathlands and Barrens – hidden gems between Fitzgerald and Cape LeGrand National Parks (six days)
4. Coasts and Forests – South West coastal forests and views (five days)

Tours 1, 2 and 4 start in Albany and end in Perth or vice-versa. Tour 3 starts and ends in Albany.

Early bird (discount) registration for the conference ends on 30 April 2019. Registering early also gives you best choice of the tours and field trips.

Just think – you could be wandering among giant Karri Trees or spotting an Albany Pitcher Plant! For more information, go to [www.bloomingbiodiversity.com.au](http://www.bloomingbiodiversity.com.au) .

## Conservation Report

Dan Clarke is the Conservation Officer for APS NSW and can be contacted at [conservation@austplants.com.au](mailto:conservation@austplants.com.au)



The end of 2018 was extremely busy and I was involved in some additional Saving our Species work. This included surveys for *Grevillea parviflora* subsp. *parviflora* and a very rare shrub named *Gyrostemon thesioides*, which took me into the old township of Yerranderie in the Lake Burrangorang area in November.

I am very happy to report that we, as APS Sutherland members, have completed two surveys of *Prostanthera densa* (Villous Mintbush) at Helensburgh – the fifth known locality for the species. We conducted one survey in October and another in late December and we have recorded over 100 plants at two separate sub-populations. At Helensburgh, *P. densa* occurs in typical sandstone gully forest with a canopy of *Angophora costata* (Sydney Red Gum) and *Eucalyptus piperita* (Sydney Peppermint), as well as in some majestic tall forest which is termed the Southern Sydney Sheltered Forest on Transitional Sandstone Soils endangered ecological community (a bit of a mouthful!).



(L) *Grevillea parviflora* subsp. *parviflora* and (R) *Gyrostemon thesioides* or, as it was known for some time in the nineteenth century, *Didymotheca thesioides*

We conservatively estimate that there are several hundred plants at Helensburgh, and we have been lucky enough to find one plant in a recently burnt area which seemed to have somehow survived the fire. But as of December (8 months post fire), we can find no evidence of new seedlings or regenerating stems of *P. densa* in this area.

In addition I am currently liaising with the Hunter Region Botanic Gardens regarding propagation and translocation of *P. densa* to augment the small population at Nelson Bay.

I am booked in to speak at both a Central Coast Group and (again) at a Northern Beaches Group meetings this year. My focus will probably be the ongoing achievements of the SOS program in their local areas.

I look forward to another busy year on the conservation front.

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## Cover images

Both Cover images were taken by Jan Douglas from East Hills and South East Groups. She photographed them in her Sydney garden last year.

Front Cover: *Hovea acutifolia*, is a member of the Fabaceae (Pea) family that has no generally accepted common name. It is an upright shrub from 1.5 to 4 m tall. It is an adaptable garden plant preferring well drained soil in part shade. A good display of blue/purple flowers covers the shrub but lasts only a few weeks each year. In the wild it is found in wet forests and rainforest margins in the coastal areas from SE Qld to the NSW central coast. *Hovea* was named after Anton Hove, a Polish botanical collector who worked for Banks among others and travelled in Africa and India. The genus, created by Robert Brown, contains about 20 species, all endemic to Australia.



Back Cover: *Pararistolochia praevenosa* (Birdwing Butterfly Vine) is an uncommon, native, lowland vine. It is the main natural food plant for larvae of the Richmond Birdwing, a butterfly classified as Vulnerable in Qld. The vine's habitat, lowland subtropical rainforest, is listed federally as Critically Endangered.

It is found in coastal areas north from Wollongbar, in far north eastern NSW and adjacent areas in south eastern Qld. More information is available at:



[www.wildlife.org.au/wp-content/uploads/2013/12/Birdwing\\_Butterfly\\_Vine\\_Factsheet.pdf](http://www.wildlife.org.au/wp-content/uploads/2013/12/Birdwing_Butterfly_Vine_Factsheet.pdf)

## The Quest for the 'Flying Duck'

Jennifer Liney is a volunteer at the Eurobodalla Regional Botanic Garden, a member of APS South East Group and a recipient of the APS NSW Conservation Award.

Bob Ross' mention of the Flying Duck Orchid in the October 2018 issue of *Native Plants for New South Wales* reminded me of a piece I wrote some years ago for the *Chefs Cap: newsletter of the Eurobodalla Regional Botanic Garden* at Batemans Bay. This is an edited version.

There are many strange, interesting and beautiful ground orchids common on the NSW south coast, but none so delightful, appealing and downright cute as *Caleana major*, the Flying Duck Orchid.



Image from Sydney Coast Walks showing the floral structure of *Caleana major*

I know a lady from Dalmeny who is fascinated by Australian orchids. She (and her husband and family) have spent many hours searching their local forests and grasslands for ground and epiphytic orchid species. Her orchid specimens are a valuable part of the Wallace Herbarium (ERBG) collection. The Bodalla Forest Park has been a favourite hunting ground for quite some time; in fact, she has written about her experiences there.



Images from the Atlas of Life in the Coastal Wilderness, specifically observations from Bournda National Park at <https://atlasoflife.naturemapr.org/Community/Sightings/Details/3360634> showing (L) the whole plant and giving an indication of how difficult it can be to find in the field, (TR) the flower in profile (BR) the single leaf at the base of the flowering stem.

Early in October she phoned me with news of a colony of Flying Duck Orchids she and her husband had found just off the Princes Highway, opposite the entrance to Brou Tip (a bit north of Dalmeny). Never having seen this orchid in the flesh, so to speak, at first opportunity I hastened down the Highway to try and locate it. I had been given some pointers to follow, and in due course I found these. But in spite of an hour's searching, no Flying Ducks. Time had run out and I had to return home.

A phone call, asking for more directions. A few days later, I drove down to the tip area again. I was told that the orchids are rather small and grow in very dry, gravelly places, and that the first one is very difficult to find, but once the sightlines are established, others appear as if by magic. After another fruitless hour, I was thoroughly disgusted and on the point of going home, when I spied a single maroon orchid leaf in among fallen dry Stringybark leaves. Suddenly, near the gravelly base of the tree (that had been left like a little hillock around the tree trunk after gravel had been removed from the site) I could see a little dark red/brown stem about 8cm tall with an orchid flower on top. Then there was another, and another, and another. I had found the Flying Duck Orchids!!

I was astonished at the delicate, intricate form of the flower; a form that is highly specialised to attract insects for pollination. The lower part is somewhat cup shaped and contains nectar, while above this and connected by a flat tensioned straplike appendage, is the 'duck' head that contains the pollination mechanism. When an insect lands on the cup – attracted by the nectar – the spring is activated and the 'duck' head snaps down, depositing pollen on the back of the insect. After a little while, the spring releases and the insect is free to fly away to another flower, thus transferring the pollen. The photograph, from Sydney Coast Walks (p28), is a good illustration of the flower parts involved in this procedure. It is an amazing process, evolved over untold years, wonderfully simple, yet incredibly complicated.

I could not keep this find to myself, so I rang an acquaintance in Canberra who is interested in orchids. 'I must see them', she cried, and forthwith arranged to meet me at the spot the next weekend, postponing all her normal Saturday activities. Photographs were taken, and suitable expressions of wonder uttered. Others were shown the orchids, and these in turn showed their partners and friends.

All of these people shared my pleasure in these unusual and charming members of the fascinating world of plants.

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***Continued from page 13***

If you are able to assist in some way, please contact Heather Miles, Conference Convenor, on [office@austplants.com.au](mailto:office@austplants.com.au)

Like you, I am looking forward to an exciting new year, enjoying the activities and friendship that are such an important part of our organisation.

## APS at the 2019 Easter Show

Help promote Australian plants and your Society by participating in the Sydney Royal Easter Show. Volunteer to help on the APS stand and promote Australian plants by entering the flower competition.



### Call for volunteers

We need volunteers for our APS NSW stand at the RAS Easter Show.

Our stand is open from 9.30 am to 5.30 pm each day from Friday 12 April to Wednesday 17 April. Note this period does NOT include the Easter weekend. There will be two shifts: the first from 9.30 am to 1.30 pm and the second from 1.30 pm to 5.30 pm. It is planned to have at least two members at the display for each shift to hand out leaflets, sell plants and talk to the public about your love for Australian plants. Free entry to the show is an added benefit, with plenty of time for you to explore the Show.

Contact Leonie Hogue to register your interest at [leoniehogue@gmail.com](mailto:leoniehogue@gmail.com)

### Competition entries

We also need members to help promote Australian plants by entering flowers in the show competition. Competition entries are now open. Again this year there is only one session for Australian Plants. It is on Easter Saturday 20 April.

To enter go to the Easter Show website at [www.eastershow.com.au](http://www.eastershow.com.au) and then to 'competitions' flower and garden. Entries and nominations close on Wednesday, 13 March 2019.

Help fill the hall with amazing native plants – a few extra entries can make all the difference. Enter as an individual or as a group. As a group you pay one entry fee and everyone can enter under your group name. It's lots of fun and it puts Australian Plants on display for the public.

## Plant profile

# *Spyridium scortechinii*

Warren Sheather is well-known to many APS members. Until recently he was a member of the Armidale Group and wrote an occasional column about plants of the New England region. He and wife Gloria have decided it is time to down-size and are moving to the lower Blue Mountains to be closer to family. Warren will continue to write for Native Plants for NSW, group newsletters and study groups, but has discontinued the website ([www.yallaroo.com.au](http://www.yallaroo.com.au)). Much of the native plant information from that site is available on the upgraded APS NSW website [www.austplants.com.au](http://www.austplants.com.au).

*Spyridium scortechinii* is another native plant that is found in the Northern Tablelands of NSW. It was previously known as *Stenanthemum scortechinii* and *Cryptandra scortechinii*. The former name was bestowed in 1884 and the latter in 1902. Finally (hopefully) *S. scortechinii* became the accepted name in 2004. It is a member of the Rhamnaceae (Buckthorn) family and is a small rounded shrub reaching a maximum height of 1.5 metres with a spread of about 60 centimetres. The leaves are lanceolate in shape and about two centimetres long.





Masses of white, woolly flowers are carried in dense terminal heads and cover these plants in spring. They are an eye-catching and unusual feature. Cotton Bush is the common name and this refers to the appearance of the flower heads. Light pruning after flowering will help promote bounteous blooming. *S. scortechinii* prefers well-drained sites in full sun or partial shade. In our previous Northern Tablelands garden we grew a number of specimens and they proved to be long-lived, hardy and free-flowering. This handsome shrub could be grown in native cottage gardens and as a foreground shrub in garden beds. *S. scortechinii* propagates readily from cuttings.

The species is found in coastal, tableland and western slope areas of NSW as well as Queensland. The type specimen was collected along the Severn River near Inverell in northern NSW, before 1900. There are records of collections made near Braidwood and Bermagui in southern NSW. Also the species was collected at Apsley Falls in northern NSW. We have found *S. scortechinii* on a creek bank about 25 kilometres west of Armidale, northern NSW. A ground covering form has been observed near Braidwood in the Southern Tablelands of NSW. A cultivar known as 'White Mischief' is grown for the cut flower trade.

The genus name is from the Greek word *spyridion* and means a small basket and refers to the flower heads which are circled by leafy bracts. The species name refers to Rev. Benedetto Scortechini, a 19th-century priest and botanist.

## Study Groups notes

This report has been compiled by Eleanor Handreck, the Study Groups Liaison Officer for APS South Australia. But the good news is that Nicole Maher from Wagga has volunteered to be the Study Group Coordinator for NSW. Nicole is new to the job and the first of her reports will appear in the eBulletins. She can be contacted at [nmaher@mli.org.au](mailto:nmaher@mli.org.au). A listing of all Study Groups, their Leaders and their annual fees begins on page 40.

### Acacia (No. 142, Sept 2018)

After snippets from members, readers learn how to prepare *A. dunnii* seeds for sowing (it requires more work than acacias usually need). Information about Myall Park B.G., *A. nerifolia*, *A. conferta*, *A. boormannii* and *A. boormannii* subsp. *gibba* follows. Reports of two 'rare wattle' outings close the issue.

### Acacia (No. 143, Dec 2018)

News from members including *A. retinodes* flowering in the UK in December! Followed by articles covering wattle tick scale, *A. mitchellii*, *A. paradoxa*, *A. undoolyana*, *A. purpureopetala*, a rust fungus in the genus *Uromycladium*, the lens of Acacia seeds, acacias and allergies, and acacias and methane emissions. A Melbourne artist is looking for examples of the juvenile foliage of *A. lineata*. Accurate identification is required.



*D. arborea* buds and flowers. Photo: Tony Cavanagh

### **Dryandra (No. 75, Oct, 2018)**

This newsletter begins with an article about *Dryandra anatona*, a WA plant with an unusual growth habit and spectacular flowers, and about *D. arborea*, an unusual treelike dryandra. The WA Government is considering protection for the unique parts of the Helena and Aurora Range that are home to these plants.



Above: Typical habitat of *D. arborea*. Photo: Brian Moyle



Right: Massive trunk of *D. arborea*. Photo: Brian Moyle

### **Dryandra (No. 76, Feb 2019)**

This issue includes stories about *D. bipinnatifida* in cultivation, growing *D. lindleyana* subsp. *lindleyana* var. *lindleyana* and other WA *Dryandra* species near Denmark (WA), fire and biodiversity of individual species of several Proteaceae genera, and a report of a *Dryandra* trip from 30 July to 3 August last year. Interesting plants from other families were also spotted.

### **Eremophila (No. 122, Feb 2019)**

A labelled plant-layout map of the National Arboretum *Terra Australis* Garden opens this NL. The feature plant in this issue is *E. alternifolia* with its many flower-colour variations and crosses. In addition, articles cover the misnaming of some eremophilas, the *Eremophila* phytochemical database, problems in the *Eremophila* Key in Bob Chinnock's book, pruning *E. acrida* Bushy Park, for example. The newsletter closes with many short notes from members.

### **Fern (No. 142, Feb 2019)**

This newsletter consists mainly of reports of outings: to Mt Wilson, Mary Cairncross Park, the Jowarra section of Mooloolah River N.P. and to a private garden in the Sydney area.



Northern garden entrance



Sandstone waterway



Columnar basalt formation



Granite boulder landscape

### **Garden Design (No. 105, Nov 2018)**

The newsletter opens with a reminder that Myrtle Rust is still a big risk to our huge family of plants in Myrtaceae. The theme for this issue was Coastal Gardens. There are brief quotes from newsletters that were issued in the 1990s, and a report of a Landscape Conference in Melbourne as well as of garden visits.

There is also an article on the Terra Australis Garden in Canberra (see images above). This is a bold project, it is planned as a stylised representation of the geography of Australia and the diverse flora of our island continent. The garden is located in the Australian National Arboretum on a dramatic upper hilltop terrace adjacent to the visitor centre.

A small voluntary committee of ANPSA members has planned and developed the garden over the past eighteen months. The committee is

led by Ben Walcott, capably assisted by wife Ros who has sourced most of the plant material with help from Angus Stewart and Bronwyn Blake. Lawrie Smith designed the garden and provided remote supervision. Some images of the garden under construction are included.

### **Garden Design (No. 106, Feb 2019)**

This issue opens with an article that looks at the use of plants to moderate temperatures in our homes. This is followed by stories about a salt-lashed garden, the Qld Conservation Collection Garden, a garden that blends several styles of gardening to create a calming garden with year-round interest, and an Oz native plants nursery in the US. And there is more reading than this.

### **Grevillea (No. 112, Feb 2019)**

Populations of several rare and supposedly protected *Grevillea* species have been nearly totally destroyed by road-grading activities in WA. Sadly, there have been no prosecutions of councils or council workers. There is a description of a spectacular private *Grevillea* garden near Melbourne. Other stories cover root-suckering in grevilleas, *G. chrysophaea*, and the George Pentland Botanic Gardens at Frankston, Vic. And there is much more!

### **Hakea (No. 68, Oct 2018)**

The Study Group leader reports that while his *H. trineura* didn't ever flower at Strathmerton, a four-year-old specimen has bloomed at Colac. He discusses the loss of lower leaves in some hakeas. There is a report of the Oct 2018 Hakea Crawl in WA, including some plant descriptions and photographs.

### **Hakea (No. 69, Feb 2019)**

Some SG members have had to contend with extended periods of extreme heat this past summer. More information about the Oct 2018 *Hakea* Crawl follows. A SA member is photographing his *Hakea* seedlings and there is information about *H. Victoria*. Finally some short notes from members and a small *Hakea* gallery.

### **Isopogon and Petrophile (No. 23, Nov, 2018)**

The Leaders challenge members with a question: what pollinates isopogons and petrophiles? It is possible to swap seeds and cuttings within the study group. Pollen presenters are examined, and isopogons and petrophiles in WA and at the Mt Annan BG are reported on. Plants that are profiled are *I. formosus* and *P. biloba*. There is much more in the issue including accounts of several garden visits in the Grampians area.



*Isopogon formosus* Photo: Brian Walters



*Petrophile biloba* Photo: Margaret Pieroni

### **Waratah and Flannel Flower (No. 16, Nov., 2018)**

In this issue: hybrid waratah flowers, flannel flower bracts, *Actinotus forsythii* (Pink Flannel Flower), waratahs and climate change, waratahs in arts and crafts, a nursery visit, and news from members.



*Actinotus forsythii* (L) flowers in close-up and (R) mass flowering on the shrub

# PROXY FORM

## APS NSW Ltd AGM, 18 May 2019

The instrument appointing a proxy may be in the following form or in a common or usual form. The Memorandum and Articles of Association, 15 January 1993, should be read in conjunction with this form.

Please fill out this form and return it, either by:

mail to:

The Honorary Secretary  
PO Box 263  
Cremorne Junction  
NSW 2090

email to [office@austplants.com.au](mailto:office@austplants.com.au)

This proxy must be received not later than 48 hours before the meeting (Closing 12 noon, Thursday 16 May, 2019)

I \_\_\_\_\_  
of \_\_\_\_\_

being a member of the Australian Plants Society NSW Ltd (hereafter called "the Company") appoint

\_\_\_\_\_ as my proxy to vote on my behalf at the Annual General Meeting of the Company, to be held on Saturday, 18th day of May 2019 and at any adjournment of that meeting.

My proxy is hereby authorised to vote \*in favour of / \*against the following resolutions:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signed \_\_\_\_\_ Date: \_\_\_\_\_

Note: In the event of the member desiring to vote for or against any resolution he or she may instruct his or her proxy accordingly. Unless otherwise instructed, the proxy may vote as he or she thinks fit.

\* Strike out whichever is not desired.

# Study Groups directory

Fees are listed as Australia/Overseas/Email

**Acacia** (\$10/\$20/\$7)

Leader: Bill Aitchison  
13 Conos Court  
Donvale, VIC 3111  
☎ (03) 9872 3583  
Email: acaciastudygroup@gmail.com

**Australian Food Plants** (free)

Leader: Sheryl Backhouse  
201 Old Mt Samson Rd  
Mt Samson QLD 4520  
☎ (07) 3289 4198  
Email: australianfoodplants@gmail.com

**Australian Plants for Containers**  
(email only)

Leader: Lynne Mockridge  
PO Box 813 Kings Meadow  
Launceston TAS 7249  
☎ 0437 944 595  
Email: mockridge.lynne@gmail.com

**Banksia** (\$7 email)

Leader: Kevin Collins  
PO Box 132  
Mt Barker WA 6324  
☎ (08) 9851 1770  
Email: banksia@comswest.net.au

**Boronia & Allied Genera** (\$10 email)

Leader: Doug Coates  
305/87 Yarranabbe Rd  
Darling Point NSW 2027  
☎ (02) 9363 0619  
Email: doug.coates@bigpond.com

**Brachychiton and Allied Genera**  
(\$5/\$10/--)

Leader: Kerry Rathie  
6 Bright St  
Toowoomba South QLD 4350  
☎ (07) 4638 4305  
Email: krathie6@bigpond.com

**Correa** (\$10/ – /\$6)

Leaders: Dot and Bob O'Neill  
7 Hillsmeade Drive  
Narre Warren South VIC 3805  
☎ 0428 882 068  
Email: oneills@heart-reflections.com  
Admin & Editor: Russell Dahms  
13 Everest Ave  
Athelstone SA 5076  
☎ (08) 8336 5275  
Email: rdahms@internode.on.net

**Dryandra** (\$10/\$12/\$5)

Leader: Margaret Pieroni  
22 Ravenhill Heights  
Denmark WA 6333  
☎ (08) 9848 3331  
Email: mpieroni@bigpond.com

**Eremophila** (\$5)

Leader: Lyndal Thorburn  
3 Considine Close  
Greenleigh NSW 2620  
☎ (02) 6297 2437  
Email: lthorburn@viria.com.au

**Eucalyptus** (\$10/\$20/\$5)

Leader: Warwick Varley  
PO Box 456, Wollongong NSW 2520  
☎ (02) 4284 5282  
Email: tallowwood@hotmail.com  
Admin: Steve Harries  
Email: abodepool@bigpond.com

**Fern** (\$5)

Leader: Peter Bostock  
54/260 Cliveden Avenue  
Corinda QLD 4075  
☎ 0421 113 955  
Email: pbostock@ozemail.com.au  
Treasurer: Dan Johnston  
9 Ryhope Street  
Buderim QLD 4556  
Email: dan.b.johnston@bigpond.com

**Garden Design** (\$20/--/free)

Leader: Lawrie Smith  
38 Sandpiper Avenue  
North Lakes QLD 4509  
☎ 0411 228 900  
Email: lawries@live.com

**Grevillea** (free)

Leader: Peter Olde  
140 Russell Lane  
Oakdale NSW 2570  
☎ (02) 4659 6598  
Email: peter.olde@exemail.com.au  
Treasurer: Christine Guthrie  
32 Blanche Street  
Oatley NSW 2223  
Email: bruce.moffatt@tpg.com.au  
☎ (02) 9579 4093

**Hakea** (\$10)

Leader: Paul Kennedy  
210 Aireys Street  
Elliminyt VIC 3250  
☎ (03) 5231 5569  
Email: hakeaholic@gmail.com

**Isopogon & Petrophile** (free)

email only group  
Joint Leaders: Phil Trickett and  
Catriona Bate  
PO Box 291  
Ulladulla NSW 2539.  
☎ 0409 789 567  
Email: catrionaandphil@gmail.com

**Wallum & Coastal Heathland** (\$5)

Leader: Barbara Henderson  
36 Railway Terrace  
Moore QLD 4306  
☎ (07) 5424 7073

**Waratah and Flannel Flower** (free)

Leader: Maria Hitchcock  
PO Box 4214  
Armidale West NSW 2350  
☎ (02) 6775 1139, 0421 961 007  
Email: maria.hitchcock@gmail.com

The following study groups are all in recess and require new leaders. If you are interested in a role contact the new APS NSW Study Group Liaison Officer, Nicole Maher at nmaher@mli.org.au

**Australian plants as Bonsai**  
**Australian plants for containers**  
**Calytrix**  
**Daisy, the Australian**  
**Fabaceae**  
**Hibiscus and Related genera**  
**Orchids, Indigenous**  
**Palm and Cycad**  
**Prostanthera and Westringia**  
**Rainforest**  
**Rhamnaceae**  
**Succulents, Native**  
**Verticordia**  
**Wetlands (and Water Plants)**  
**Wildlife and Native Plants**

**Find APS NSW**  
on Facebook at  
[www.facebook.com/APSNSW](http://www.facebook.com/APSNSW)



# Membership discounts

Discounts are available from the following organisations to Society members who present their current membership card.

## Sydney

☼ **All GreenGold Nurseries**  
**5% discount**, except on landscape materials, garden design services or discounted merchandise.

☼ **Florilegium**  
The Garden Bookstore  
65 Derwent St, Glebe 2037  
PO Box 644, Rozelle 2039  
☎ (02) 9571 8222.  
Mon–Sat 10am–6pm, Sun  
11am–5pm.

**10% discount on some titles.** Please check before purchasing.

☼ **Sydney Wildflower Nursery**  
9 Venio St, Heathcote 2233  
www.sydneywildflownursery.com.au  
**10% discount**

## Armidale

☼ **Cool Natives**  
**Retail mail order nursery**  
16 Hitchcock Lane,  
Armidale 2350  
Open by appointment only  
☎ (02) 6775 1139  
0421 961 007  
Email: maria@coolnatives.com.au  
www.coolnatives.com.au  
**10% discount**

## Blue Mountains

☼ **Glenbrook Native Plant Reserve Nursery**  
Great Western Highway,  
Glenbrook 2773  
☎ (02) 4739 8597  
Sat, Sun, Wed. 12 noon–4pm.  
**10% discount** to members,  
**20%** for roster participants.

## Central Coast

☼ **The Wildflower Place**  
453 The Entrance Rd,  
Erina Heights 2260  
☎ (02) 4365 5510  
**5% discount**

## Central West

☼ **Wombat Gully Native Nursery**  
1729 Cocks Creek Rd, Rylstone  
☎ 6379 6202  
**10% discount**

## Hunter Valley

☼ **Muswellbrook Forest Nursery**  
New England Highway,  
Muswellbrook  
☎ (02) 6543 2622  
Email: mfn@hlmaus.com.au  
www.muswellbrook  
forestnursery.com.au  
M–F 8.30am–4.30pm  
Weekends 10am–3pm  
**10% discount**

## Nepean Valley

☼ **Darvill Nursery**  
Darvill Rd, Orchard Hills 2748  
Contact for price list or  
arrange to visit beforehand  
☎ (02) 4736 5004  
www.darvillnursery.com.au  
**10% discount**

## Newcastle

☼ **Leeanne Neal at Newcastle Wildflower Nursery**  
260 Lake Road, Glendale 2285  
☎ (02) 4954 5584  
Open 7 Days 9am–5pm.  
**10% discount**

## North Coast

☼ **Bonny Hills Garden Centre,**  
1055 Ocean Drive,  
Bonny Hills 2445  
☎ (02) 6585 5764  
**10% discount** on all plant purchases

☼ **Greenbourne Nursery**  
Oxley Hwy, Wauchopo 2446  
(opp. 'Timbertown')  
☎ (02) 6585 2117  
**10% discount**

## Mildura

☼ **Native Nursery, Mildura**  
**10% discount** on the purchase of any native plants or other products, including the Watertube, ordered online at www.nativenursery.com.au

## South Coast

☼ **Wildgems Native Nursery**  
Illawambra Valley Road,  
Yowrie 2550  
☎ 0427 937 398  
Wholesale / retail nursery.  
Please ring and arrange day  
before arriving.  
**10% discount**

☼ **Verdigris Fern Nursery**  
Currowan Creek 2536  
Mail order is available through the website which includes useful information on fern cultivation. The nursery is open by appointment.  
☎ (02) 4478 1311.  
Email: verdigrisferns@gmail.com  
**Wholesale price** for APS NSW members

## APS NSW contacts

### APS NSW Office

**Email:** [office@austplants.com.au](mailto:office@austplants.com.au)

**Website:** [www.austplants.com.au](http://www.austplants.com.au)

**Facebook:** [www.facebook.com/APSNSW](http://www.facebook.com/APSNSW)

**Postal address:** PO Box 263, Cremorne Junction NSW 2090

**Phone:** 0499 073 001



*Please contact office-bearers, internal Committees (Management, Publishing and Projects) and representatives through the office email or by phone.*

## APS NSW Office-bearers

<b>President</b>	John Aitken
<b>Vice President</b>	vacant
<b>Honorary Secretary</b>	Heather Miles
<b>Treasurer</b>	Harry Loots
<b>Membership Officer</b>	Merle Thompson
<b>Company Co-ordinator</b>	vacant
<b>Editors <i>Australian Plants</i></b>	John Aitken and Merle Thompson
<b>Editor <i>Native Plants for NSW</i></b>	David Crawford
<b>Publicity Officer</b>	vacant
<b>Program Officer</b>	vacant
<b>Exhibition Officer</b>	vacant
<b>Property Officer</b>	vacant
<b>Conservation Officer</b>	Dan Clarke
<b>Study Group Liaison Officer</b>	Nicole Maher
<b>Website manager</b>	James Ward

## APS NSW Board members at 1 July 2017

John Aitken, John Andrews, Alix Goodwin, Mary Hedges, Harry Loots, Tony Maxwell, Heather Miles, Roger Starling, and Merle Thompson.

## APS NSW Representatives to external bodies

<b>ANPSA Council</b>	John Aitken
<b>Australian Cultivar Registration Authority</b>	David Murray
<b>Australian Flora Foundation</b>	Ross Smyth-Kirk
<b>Burrendong Arboretum</b>	Lyn Burgett – <a href="mailto:l.burgett@bth.catholic.edu.au">l.burgett@bth.catholic.edu.au</a>
<b>Native Flower Growers and Promoters</b>	Jonathan Steeds
<b>Nature Conservation Council</b>	Margery Street
<b>External Book Service</b>	Florilegium -The Garden Bookstore



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[www.austplants.com.au](http://www.austplants.com.au)