

Native Plants for New South Wales



\$5.00

Journal of the Australian Plants Society NSW Ltd Vol 53 No 4 October 2018



Native Plants for NSW

Published quarterly in January, April, July and October by the Australian Plants Society NSW Ltd ACN 002 680 408

Editor: David Crawford

Proof reading: Jan Douglas

Layout: Lachlan McLaine

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.

APS NSW

Mail: PO Box 263
Cremorne Junction NSW 2090

Phone: 0499 073 001

Email: office@austplants.com.au

Website: www.austplants.com.au

Facebook: www.facebook.com/APSNSW

Deadline for the January 2019 issue is 1 December 2018.

Deadline for April 2019 issue is 1 March 2019.

All original text may be reprinted, unless otherwise indicated, provided the source is acknowledged. Permission to reprint non-original material, all drawings and images must be obtained from the copyright holder.

Opinions expressed in this publication are those of the authors and may not necessarily represent the official policy of the Australian Plants Society NSW Ltd.

Number of Copies: 1400

Printed: Elect Printing, Fyshwick ACT.

Print Post Approved: 100000848

© 2018

ISSN 1323 – 7314

Contents

Introduction.....	3
Another way to look at things	4
September gathering in photos	7
Coates Wildlife Tours.....	10
Life Membership and Conservation	
Awards 2019	11
Australian Flora Foundation	12
Book on Bush Tucker in Kakadu ...	13
Why not get propagating?	14
New Members	18
Flying Ducks	20
District Group Directory	21
Membership Form	22
District Group Directory continued..	24
Conservation Report.....	25
President's Report	26
Cover Images	27
Daviesia latifolia	28
ANPSA meets politicians in	
Canberra	31
Shoalhaven Adventure	35
Study Groups Notes	38
Study Groups Directory	40
Membership Discounts.....	42
APS NSW Contacts,	
Committees and Services.....	43

Front Cover: *Hibbertia linearis*, (Showy Guinea Flower). Photo: Beth Gower.

Back Cover: *Darwinia fascicularis* subsp. *fascicularis*. Photo: Beth Gower.

See page 27 for more information.

Introduction

David Crawford, Editor *Native Plants for NSW*

editorNP@austplants.com.au

Can you remember the first time you used a hand lens to help identify a plant? Small features, difficult to discern by eye, were suddenly revealed. Many of us, zooming in on a recent digital photo of a well-known plant on our computer will have 'discovered' features, colours and patterns we had never before observed. Modern digital cameras (even those in our mobile phones) provide amazing resolution. Image manipulation has never been easier. How we use these technologies is limited by our imagination and determination. Mark Noake from SE NSW uses simple equipment to increase his own knowledge and to assist his local group and two Study Groups. His article is on page 4.



Paddy Lightfoot from Newcastle Group (p 9) draws our attention to the Australian Flora Foundation and the work it is currently supporting.

John Knight writes a regular column for this journal, usually guiding us through a genus or family of plants, suggesting species to grow in the garden. His latest article (p 14) diverts from that theme. This time, John encourages us to get involved in propagation. It is a return to our 'roots' (no pun intended). The benefits are many: improved knowledge of our flora, wider availability of desirable plants, cost savings, more active local groups, connection with other growers, preservation of out-of-favour plants. Make your own list, but better yet – get back to basics – propagate and share plants!

The 2019 the National Conference will be in Albany in WA. Accordingly, WA members occupy the executive of ANPSA until then. They have been leveraging that position to try to save valuable bushland at the airport in Perth (p 31). NSW will host the following conference in 2021 and will hold the executive positions of the ANPSA after the Albany Conference.

In this issue the Study Group notes (p 38) kindly come from APS South Australia as NSW no longer has a Study Group Liaison Officer! Many positions on our state executive remain unfilled and the few volunteers keeping the Society going need your help. Please consider what contribution, small or large, you could make, and contact APS NSW.

Nominations are sought for APS NSW Life Membership and the Conservation Award in 2019 (p 11). Groups should take advantage of this opportunity to acknowledge their major contributors.

Another way to look at things

Mark Noake is a member of South East Group and an active member of both the Grevillea and Isopogon and Petrophile Study Groups. He and his wife Carolyn have developed an impressive native garden on small acreage near Moruya. Among other plantings they are helping to conserve some rare and threatened *Grevillea* species. Mark has combined his camera and laptop with some old photography hardware and some lights to create a viewing and image capturing system that is helping display floral features to his local group and reveal fine detail of flower structure important to the identification and understanding of plants of specific interest to his study groups.

Although our little 10x jeweller's lenses are convenient in the field, it can be a struggle to really see those intriguing plant details which fascinate so many plant lovers. One easily accessible way to overcome this problem is to make use of your digital SLR camera connected to your computer.

Surely people have been taking similar approaches for years, but this setup comes from a desire to make use of gear that we already have: Some of it had been tucked away in a cupboard since the days of processing black and white photographs in the family bathroom, the software was on a forgotten disk which came with the camera.



Mark's set-up with the SLR camera mounted on the post of the enlarger stand, several lights arranged to illuminate the specimen and the extension tubes shown on the enlarger base



Grevillea maccutcheonii fruit which has been sliced through to expose the developing seed.



Close-up view of developing fruit of *Grevillea endlicheriana*.

The brands mentioned here are simply those I already own, and I have used them to describe what happens rather than as recommendations.

The first element is a digital SLR (Single Lens Reflex) camera. The important thing here is an ability to see what the camera sees.

Secondly, your camera probably comes with software that allows you to connect your camera to a computer via a USB cord or something similar. Mine is a Canon EOS600D which came with an application called EOS UTILITY. This utility enables control of the camera through a control panel that appears on the computer screen.

Part of the system is a “Live Shooting” facility which displays on-screen exactly what the camera “sees”. The working image can be as big as your screen with the ability to zoom in on any area to fine tune your focus. Clicking an on-screen button takes the photo which can be saved as an image file and manipulated in all the usual ways.

Thirdly, you need a way of holding the camera steady whilst composing your shot and adjusting focus or changing camera settings. This is where my old black and white enlarger stand has come in handy. The camera screws onto the stand just as one might attach it to a tripod.

Of course once the fun started there was a great temptation to improve the system. Purchase of an extension tube set allows much closer positioning of the camera to the subject and therefore greater enlargement of detailed images. Mine are a generic set of automatic

extension tubes with connections which allow full control of camera settings.

Light is a crucial element in photography so, after pinching my wife Carolyn's embroidery light from time to time, I purchased my own daylight lamp in order to maintain true image colour. A couple of portable LED rechargeable desk lamps (to reduce shadows) complete the setup.

This system has also been useful at our APS South East meetings. With a computer attached to the digital projector, images of details which may be only 3 mm across can be displayed on a large screen for everyone to see simultaneously. We have used the system "live" during show-and-tell sessions where features of plants are often highlighted for the group. Stored images have also enabled illustrated discussion of morphological characters during talks at our meetings.

The possibilities with this type of set up are many. Video can be employed to show the dissection of a specimen, the addition of a microscope can allow access to still smaller detail. Many of us will have found previously unseen features on well-known plants once we look closely at our digital images displayed at large scale on the computer. Software is now readily available that allows images at different focal planes to be combined for an optimal result and levels of detail previously only possible with expensive state-of-the-art equipment.



Side view of the inflorescence of *Isopogon sphaerocephalus*.



Detail of an individual flower of *Isopogon sphaerocephalus* showing the anthers.



Confluence of
Grevillea evansiana

September gathering image gallery

A visit to Sylvan Grove Native Garden preceded the September quarterly gathering. About 40 people enjoyed morning tea followed by an introduction to the garden by horticulturist Jim Mackay. Jim then led a walk around the garden which was in spectacularly good condition, despite the long dry spell. Visitors new to the Garden were particularly impressed by this hidden gem, which contains a wide variety of Australian native plants in a bushland setting.



Alan Fairley was the guest speaker at the September 2018 Gathering. Here he is with APS NSW President John Aitken after his presentation. Photo: John Knight



Morning tea over, visitors prepare to begin a guided tour of Sylvan Grove.



A sunny section of the garden near the start of the walk – members are already beginning to break into smaller groups as their attention is taken by the wide variety of plants in flower.



Halgania preissiana (Boraginaceae family) – a new plant for many visitors.



Is it a *Dryandra*? Is it a *Banksia*? Perhaps it depends on which 'camp' you are in. Whatever the name it was an impressive specimen.



A very small portion of the extensive rainforest plantings in Sylvan Grove Native Garden which includes many impressive ferns, palms and orchids.



Coates Wildlife Tours

Specialists in Nature Tours since 1986 (Average of 6 – 12 passengers)

New Zealand Less Travelled.

16 Day New Zealand South Island Wildlife & Wilderness accommodated tour

Queenstown 17 February – 4 March 2019 Caitlin Coast and Otago Peninsular, Stewart Island and Mt Cook National Park.

Discover the natural history of the breathtakingly beautiful lower South Island's mountains, glaciers, temperate rainforests and little visited coastal areas.

Head north of WA for sea bird colonies on coral islands, marine life, coral reefs and Karijini's gorges.

14 Days Pilbara Reef and Ranges 'easy camping' tour

Perth to Broome 4 – 17 May 2019

Abrolhos Islands, Shark Bay, Ningaloo Reef and Karijini National Park.

Remote outback wilderness, spectacular arid scenery, aboriginal art, bird watching and cool water holes.

13 Day Karlamilyi (Rudall River) National Park camping expedition

Newman to Broome 23 May – 4 June 2019

Join us as we head to the very remote, harsh, yet beautiful Karlamilyi National Park. West Australia's largest national park.

Introducing Easy Camping

A Coates' support crew will travel ahead and have your camp set up when you arrive. No more erecting tents, stretcher beds or packing and un-packing camping equipment. This will all be done for you. Just pick up your bag and either spend time exploring the campsite or freshen up and relax before dinner.

WA's Kimberley is one of the most remote and unspoiled wilderness areas in the world.

11 Day Kimberley Encounter camping tour

Broome to Kununurra 24 May – 3 June 2019

Best of the Gibb River Road, Windjana, Bells and Galvins Gorges, Mt Elizabeth, El Questro, Drysdale River Stations on the Kalumburu Road and Wetland birds of Marlgu Billabong at Parry's Lagoon Reserve.

15 Day Kimberley Discovery 'easy camping' Tour

Broome to Broome 12 – 26 June 2019

Gorges of the Gibb River Road, Purnululu National Park, Ord River, wetland birds of Marlgu Billabong at Parry's Lagoon Reserve, Home Valley and Mornington Stations, Windjana Gorge and Tunnel Creek.

Wildlife, birdlife, spectacular outback scenery and sunsets.

12 Day Tanami camping expedition

Broome to Alice Springs 11 – 22 June 2019

Windjana Gorge, Tanami Desert, Wolf Creek Crater, Lake Gregory and New Haven Reserve.

Travel through the largest mountain range in South Australia, spectacular ridge top views, wildlife spotting and visit the largest lake in Australia.

11 Day South Australia Outback camping/accommodated Tour

Adelaide to Alice Springs 2 – 12 July 2019

Flinders Ranges, Wilpena Pound, Arkaroola Wilderness Sanctuary, Frome River, Lake Eyre and Coober Pedy.

Contact us for our full 2018 tour program: Free Call 1800 676 016

• Web www.coateswildlifetours.com.au • Email coates@inet.net.au

APS NSW Life Membership and Conservation Awards 2019

Nominations are being sought for these two awards.

Life Membership is the highest accolade the Australian Plants Society NSW can bestow upon a member who has made an outstanding contribution to the Society, their Group and their community.

No more than two Life Members may be appointed in each calendar year except where a nomination includes both a husband and wife.

Conservation Award – Each year, APS NSW seeks to recognise the significant contribution made by an individual member or a District Group to the conservation of Australia's native plants, in particular those of NSW. This may include the conserving of a population, a species or a community of plants.

APS NSW invites District Groups to submit nominations for Life Membership and/or the Conservation Award.

Nominations for Life Membership and the Conservation Award can only be made on the official application forms that are available from the APS NSW office or can be downloaded from the 'For Members' section, – Administration, brand, insurance & other information, of the APS NSW website – www.austplants.com.au .

The Board of the Australian Plants Society NSW must endorse all nominations prior to consideration by the Annual General Meeting in May 2019.

Nominations in both categories must be received by APS NSW no later than Tuesday, 19 March 2019.

Postal address:

APS NSW

PO Box 263

Cremorne Junction NSW 2090 or

Email address:

office@austplants.com.au

For further information or any enquiries, please contact the office.



Australian Flora Foundation

Paddy Lightfoot, APS Newcastle.

Members of the Newcastle Group of Australian Plants Society (APS) have supported the Australian Flora Foundation with substantial donations over many years.

The Foundation is located at Sydney University and its Council is composed of professional botanists augmented by lay members of the Australian Plants Society.

Each year grants are made to researchers who are working on Australia's unique and wonderful flora. I attended the recent meeting (the council meets three times a year) at the University where three grants were made for 2019 projects. About twenty applications for funding had been previously received. Six of these had been forwarded to the scientific committee for vetting and three were then chosen following the committee's report.

The first grant was made to Bryn Funnekotter of Curtin University in WA. With habitat destruction and climate change continuing unabated it is very important that we preserve seeds for the future regeneration of our ravaged ecosystems. Currently cryo-preservation seems to be the most successful method available to us. Australia is host to an incredibly diverse range of species requiring conservation. Bryn's project attempts to understand why cryo-preservation is not working, with many seeds (in particular those of rainforest plants) proving to be a problem. The study will involve looking at the mitochondria of species to establish why the method fails.

The second grant was awarded to Jodi Price of Charles Sturt University. Her project is to alleviate regeneration failure in seed restoration projects for re-vegetation. This understanding is particularly important in degraded, fragmented landscapes involving severe loss of Australian flora. Recent research suggests failure following seeding may be occurring, leading to restoration collapse once the shrubs from original seeds reach their life span. Why aren't the plants naturally producing offspring? What are the barriers?

The final grant was made to Nathan Emery of the Australian Botanic Gardens Mt Annan. Nathan has been involved with study of the Hairy Persoonia (*Persoonia hirsuta*). A rare sub-species, *P. hirsuta* subsp. 'Yengo NP', grows close to us here in the Hunter region. Nathan states that only nine plants survive in the wild. The Mt Yengo form is apparently

a particularly attractive vegetative sub-species of this *Persoonia*. He wishes to investigate a propagation protocol to grow plants for prevention of extinction in the wild as well as to introduce the species to cultivation in our gardens.

The Australian Flora Foundation is providing wonderful research in our Australian plants. The Newcastle APS group supports AFF with donations annually. As you can see from the above it is indeed worth supporting!

You can, of course, make your own tax-deductible donations to this worthy cause. This donation can be made either by sending your donation to Australian Flora Foundation Inc. PO Box 846 Willoughby NSW 2068, or by making an electronic transfer to the Australian Flora Foundation's account:

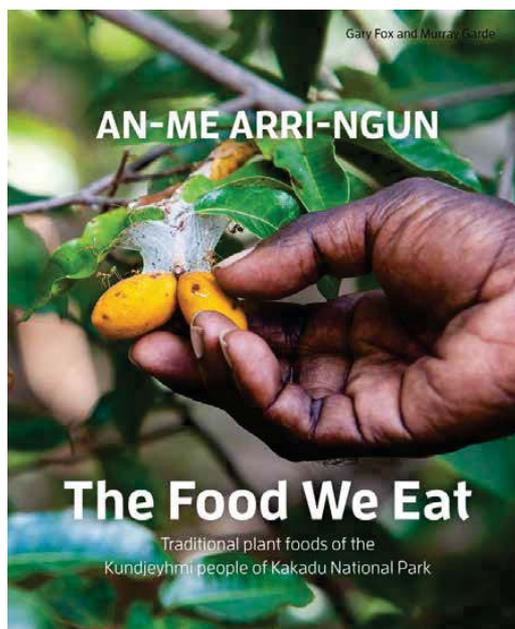
Bank: Commonwealth Bank of Australia
Account Name: Australian Flora Foundation
BSB 062 284
Account Number: 10278612

New book on bush tucker and medicine in the Top End

The Food We Eat An-Me Arri-Ngun

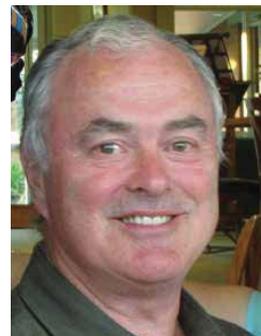
A new book has been released on the Aboriginal uses of native plants of the Kakadu World Heritage area. The authors have worked closely with the local people. The book covers both food and medicinal uses of 149 plant species which are identified with local (Kindjeyhmi), scientific and English common names. Over 500 photographs accompany the text which details plant uses, propagation and cultural significance.

The book is published by Gundjehmi Aboriginal Corporation and is available via the Murrawuddi Gallery online store. marrawuddi-gallery.squarespace.com/shop/?category=Books



Why not get propagating?

Reflections on a past time lead John Knight to encourage more APS members to get involved with propagating plants for the sheer joy of it, for their own gardens and to share with other members. A great way to get plants that are often not available commercially is to have something to trade with another enthusiast.



Propagation of your own plants was once a satisfying and profitable exercise for many, if not most Australian Plants Society members. Not profitable in a monetary sense necessarily, but in gaining of knowledge about plants.

Ah! remember the days, Grandma's days, when neighbours swapped a 'slip of this' for a 'slip of that', tiny pieces of plants tenderly brought home and propagated! Now there was a word to get young minds thinking. Grandma could never quite explain what propagation was, for she never used that word, but she knew that at a certain time, or at a certain stage of growth, a new plant could be gained from that piece. And therein lies a tale. All that knowledge, held by so many of our past generations, lost because we never thought it important. Grandma always had the time to spend talking about what she did, but maybe we didn't want to listen to so many old-fashioned ideas.

What a world we now live in. We have every conceivable gadget to save time, but we never have time. What is going on? Television was the beginning. Instead of reading, knitting, talking, listening, we were suddenly being entertained. And our time began to disappear. Now of course it is smartphones, tablets and computers that dominate our time. We spend hours searching the web. No, browsing is a better term. Are we searching for real information, or just looking? It's time to release your inner Luddite, put down those time-saving time wasters, and spend some quality time doing things that Grandma used to do.

When I first joined APS in 1972, I was influenced by such luminaries as Rodger Elliot, widely respected propagator and grower of Australian plants and author of many publications, including the Encyclopaedia of Australian Plants, jointly with David Jones. Both were friendly and approachable, and importantly generous with both time and knowledge. So began my journey of discovery, which continues to this day.

There are many reasons people no longer grow their own plants. Time is of course a factor. But maybe some just lack the facilities. Do you ever wonder "what happened to the plants we used to grow?" I question

whether gardeners are influenced by so much, and so called, reality TV with garden shows boldly advertising the latest fads, available at nurseries this week. So now all gardens start to look the same.

What about the demise of all the small nurseries that once produced a huge range, including difficult-to-get species that we dreamed of. Keeping these plants in cultivation now falls to us, as members of the Australian Plants Society. (Remember, we once belonged to the Society for GROWING Australian Plants.)

I was recently looking to replace a failed automatic watering system in my propagation house, and as I was about to embark on an extended journey, I needed a quick fix. So I ventured to that large warehouse which so dominates our existence, and came across a solution, simple and effective, and not so expensive that I needed to consult with the chancellor.

Our Journal is not the place for unpaid advertising, but I can't describe the product without mentioning the name. So here it is. **Holman Professional Misting Tap Timer**, which comes with a two year warranty.

Why does this product warrant promotion? It is the only product I have come across that is **infinitely variable**, and does not require



240V assistance to power a sensor switch to open a solenoid valve to commence watering.

Power is supplied by a 9V alkaline battery. The timer has multiple start times, and runs in seconds, meaning that water can be set, for example, to come on hourly for 5 seconds. Or every 5 minutes for 1 second. Or in fact any combination, only restricted by your imagination. Importantly, the timer can be set to stop watering overnight, so plants being propagated are not overwatered. So watering might commence at 7 am, and stop at 5 pm. These two features swayed my choice, and I must say I am extremely happy with its performance to date.

Programming is simple, even for a Luddite such as me. Resetting the frequency and duration for summer or winter is maybe all that is needed, but everybody will experience different conditions with their own set-up, so experimentation will of course be necessary. All propagators know that over-watering is a far bigger problem than under-watering, so on cool, overcast days, or during wet weather, the unit can simply be turned off without upsetting the pre-set programs. Or in my case, just turn off the tap. Simple!

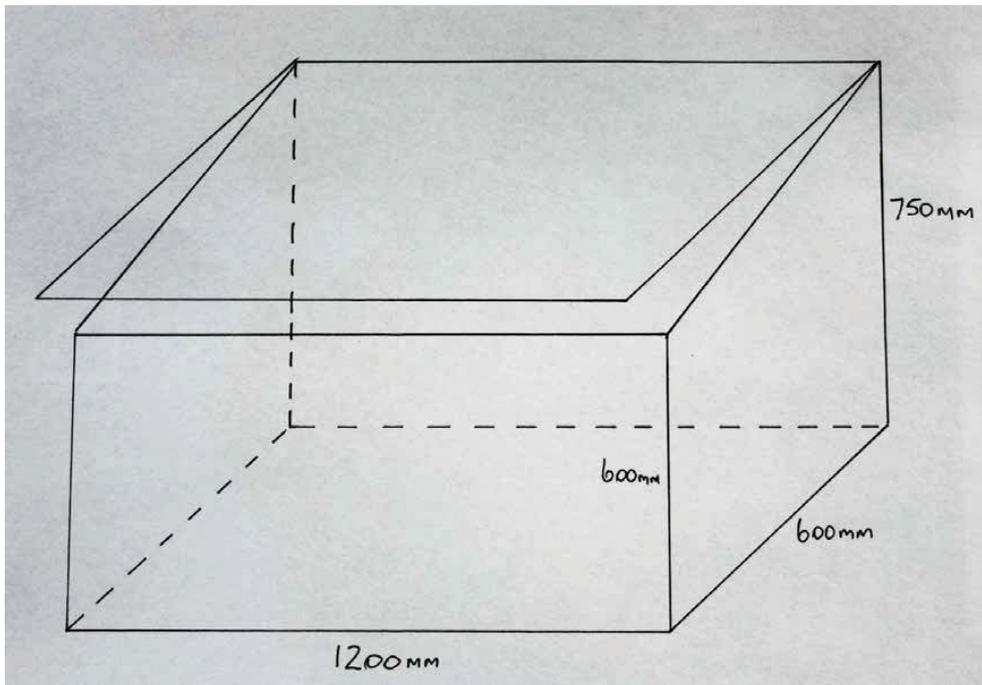
The unit requires just a standard garden tap with a threaded 20 mm or 25 mm outlet to connect to the threaded fitting of the timer. The outlet is a simple 20 mm male thread, which can be fitted with the included 12 mm hose adaptor. This is then fixed to whatever watering system you choose.

One inexpensive set up might be 12 mm low pressure poly hose with one or more 45 cm riser(s), to which are fitted brass misting jets. All this is available at the aforementioned warehouse or other hardware supplier, for not many dollars.

What about an equally inexpensive structure to get you started on your propagation journey? Clear builder's plastic or corrugated corflute are readily available. A supporting frame might be constructed of 50 mm x 25 mm pine.

A unit such as shown, placed out of direct sun, will offer suitable conditions to experiment with a range of cuttings. Cuttings need to be protected from extremes of temperature and low humidity. The base, open to the ground, should comprise 50 mm of coarse sand for drainage. Cuttings can be set in any size container. My preference is 50 mm x 75 mm tubes for between 1 and 5 cuttings, or 100 mm square pots which can hold up to 20.

Propagation medium must be well-drained. The tried and true 3 parts coarse sand to 1 part coco-peat has proved successful for many years,



and for many different species. The addition of 1 part horticultural grade perlite lightens the mix. Propagation mix must hold sufficient moisture and provide adequate aeration at the base of cuttings to initiate root formation.

With warmer weather on the way, now is the time to collect some cuttings. For confidence if starting on your propagation journey, some easily rooted species are a great way to begin. You might try some colourful herbaceous plants such as *Brachyscome*, *Chrysocephalum*, *Goodenia*, *Myoporum parvifolium*, *Rhodanthe* and *Scaevola*, all of which have proved reliable.

Plants which sucker also are usually easy to root. *Tetradlea* is one such, using the new suckering growth rather than the older stems. Also *Dampiera*. *Hibbertia* are best struck using soft new growth. Woody plants such as *Callistemon* respond agreeably taken in October, but remove the soft tips to prevent wilting. Likewise with other small *Myrtaceae*, such as *Melaleuca*, *Micromyrtus* and *Thryptomene*. *Eremophila* has seen a surge in acceptance in recent years, and most species can be easily propagated, although they are not always easy to keep growing. *E. maculata* forms seem worthwhile though.

So with this little bit of knowledge, and a new enthusiasm, let's all increase the range of plants we grow.

New members October 2018

Merle Thompson, Membership Officer

The Australian Plants Society NSW warmly welcomes the following 78 new members (64 memberships) and wishes each of you a long, rewarding and enjoyable association with the Society.



Sam Allibon	Redhead
Allan & Doris Anderson	Helensvale
Mark Asquith	Bellingen
Billie Ayling	Croydon
Cathy Beardow	Greenwich
Andrew Bernuetz	Silverdale
Greg Bourke	Mount Tomah
Amanda Carfrae	Katoomba
Christopher Cheetham	Freemans Reach
Susan Christie & David Richards	Malua Bay
Douglas Clifford	Kelmscott WA
Kristin Connell	Springwood
Caroline Cox	Booerie Creek
Dan Crowley & Kim Touzel	Cambewarra
Stacey Cullam	Kiama Downs
Juliette Dean	Artarmon
Bill & Jenny Donoghoe	West Pennant Hills
Julie Ellis	Bathurst
Susan Everingham	Kensington
Jason Fisher	Tumbi Umbi
Jocelyn Harper	Engadine
Verity Harris	Katoomba
Andrew Hennell	Yass
Julie Holstegge	Milton
Greg & Lee Horsley	Armidale
Todd Horton	Hammondville
Anthony & Rhonda Jackson	Heathcote
Glyn Jones	Gorokan
Aleisha Kahn	Katoomba
Leonie Kirwan	Uralla

Ej Kydd	Ourimbah
Tania Lamble & Bruce Usher	Cremorne
Floret Meredith	Hammondville
Simon Mitchell & Uma Doric	Ourimbah
Virginia Moffat	Mudgee
Sukonthea Nou	Narara
Gregory Olsen & Leeanne Tyler-Olsen	Empire Bay
Katy O'Neill	Katoomba
Helene Orr	Paddington
Gordon Pelletier	Sancrox
Marcela Penafiel	Cherrybrook
Clara Peto	Gosford
Jill Pirozzi	Jamisontown
Genevieve Powell	Hazelbrook
Matt Renner	Springwood
Janine Ricketts	Thornleigh
Jennifer & David Saunders	Bensville
John Siemon	Mount Annan
Stephen Shugg	Moruya
Jill Sleeman	Sunshine Bay
Arabella Smith	Bundeena
Nella Smith	Narrandera
Patricia Ann & Rudolf Soltermann	Engadine
Braidan Swan	Alfords Point
Thoa Tran	Robertson
Mark & Tania Walker	Kingswood
Tanya Wells	Belmont
John Whale	Penrith
Michael White	Coolah
Alan Wilson	Berowra Heights
Jonathon Woodbridge	Hunters Hill
Alison Woods	San Remo
Patricia & Peter Young	Mt Colah
Katherine & Ross Zimmerman	Cardiff

We welcome back

Jeanine Gallazi	Yellow Rock
Joanne Hambrett	Potts Point

Casimir Liber
John Mills & Trudy Mills-Evers
Ann Rasmussen

Marrickville
Rankin Park
West Pymble

Vale

It is with sadness that we learnt of the death of John Birks of Newcastle Group, Cynthia Leech of Northern Beaches Group and Constance Southwell, life member of Blue Mountains Group. The Board extends condolences to their families and friends.

Flying ducks on the far south coast

Bob Ross from SE NSW Group sent in this photo of a Flying Duck Orchid (*Caleana major*) that he photographed on the edge of the firebreak between Council land and Bournda National Park.

“The patch of orchids were about 200 metres from the Bega Valley Shire Council reserve on the top of the cliff at Dolphin Cove. Wendy and I didn’t look for any duck orchids in the reserve but we think there are some there – they are small but widespread.”

Bob was the recipient of the APS NSW Conservation Award in 2017. See *Native Plants for NSW* July 2017 p14 for details. The Society is now calling for nominations for this Award and Life Membership for 2019. See page 11 for details of how groups can make a nomination for these awards.



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: Karl Schurr ☎ (02) 9644 8217
Email: kschurr@bigpond.net.au

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

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 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
Ph (02) 6352 3805 Fax (02) 6351 2384



Australian Plants Society NSW Ltd
ACN 002 680 408
www.austplants.com.au

10/17

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: Jason Cockayne ☎ (02) 9570 8559
Email: Jay.shaz@hotmail.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 (June–Aug) 2nd Wednesday of the month at 7.00 pm (others excluding January).

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: australianplantsocietynowra
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: Gynea Community Centre, Gynea Bay Rd, Gynea. 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.

Conservation Report

Dan Clarke is the Conservation Officer for APS NSW and can be contacted at conservation@austplants.com.au



Most of my time in the last three months has focused on wrapping up our work on *Prostanthera densa* for the 2017–2018 financial year. Population assessments have now been done for four of the five known sites for the species in NSW. The total number of plants across the Nelson Bay, South Cronulla and the Royal National Park sites is less than 200! However, surveys of the Jervis Bay population revealed that there are probably more than 1000 plants at that location. We have completed a census of approximately 380 plants in total.

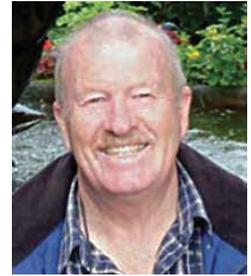
A comprehensive final report has been produced and forwarded to NSW OEH. I was fortunate enough to receive extensive voluntary editing assistance from APS member Paul Rendell who has a very good eye for scientific detail. Much appreciation to Paul for this. The report also acknowledges the valuable assistance of other members of APS Sutherland with this project. I am hoping to place the report on the APS NSW website soon.

The plan for this species under the SOS Program is to undertake some translocation of plants at Nelson Bay and South Cronulla in an effort to increase population numbers there. It is likely that this will be done from cuttings. In addition, monitoring data will be collected and additional habitats explored during 2018–2019, including a thorough assessment of the fifth known site at Helensburgh. To date no detailed assessment has been carried out at this site.

I have been notified that our work on *Prostanthera densa* will be included as an item in the next Saving Our Species newsletter. This is produced quarterly by NSW OEH and you can subscribe to it via the link www.environment.nsw.gov.au/topics/animals-and-plants/threatened-species/saving-our-species-program

I am very proud of what APS NSW has done to improve the quality of population data available for this species. Members are keen to tackle the Helensburgh population!

President's Report



Congratulations and thanks to the East Hills Group for hosting the September gathering. Once again we were spoiled by their hospitality and an excellent day's activities, which the Group organised for the 65+ members who attended. The Sylvan Grove Native Garden at Picnic Point, which we visited in the morning, was a real joy to behold as we wandered around this beautiful and tranquil garden. I highly recommend the garden to anyone who is visiting the area. The two full time gardeners who maintain the garden have a passion and love for it which is reflected in their enthusiasm and care of the garden. Alan Fairley, a well-known author of books on Australian native plants and bushwalks, gave an excellent talk on rare plants around Sydney which generated much discussion. The talk also highlighted the contribution of a number of APS NSW members who are actively involved in surveying rare species of plants. One example is a group of members of the Sutherland Group who, under the leadership of Dan Clarke, Conservation Officer for the Society, who is surveying the population of the rare and endangered *Prostanthera densa* in the Royal National Park and at Helensburgh.

This year has been a rewarding year for APS NSW in many areas as we continue to implement a number of aspects of the strategic plan. Our new website is attracting increasing numbers of visitors, some of whom have joined the Society. Online renewal of membership is increasing, which will hopefully reduce the pressure on Group treasurers. As usual, the major stumbling block to implementing the whole plan is the lack of volunteers to support the Board in its endeavours.

In 2021, APS NSW will host the ANPSA biennial conference. We are seeking members to support us in planning this conference to ensure its success. One major area where we need assistance is with the pre and post conference tours. If you are willing to assist or organise a tour please contact the office at office@austplants.com.au

I would like to thank the following people for their support and commitment to the Society during the year:

- the current Board members, Heather Miles, Merle Thompson, Harry Loots, Roger Starling, Tony Maxwell and Graham Fry, and past Board member, Alex Goodwin, who have worked so hard to ensure that the Society continues to function efficiently.
- David Crawford, who does a fantastic job as editor of *Native Plants for NSW*.

- The committee members of the District Groups who have provided exciting and varied programs for their members.
- Glenda Brown for monitoring the Society's emails.
- Leonie Hogue for coordinating the Royal Agricultural Society's Show Easter Show each year;
- Wendy Grimm who was the study groups coordinator for NSW, and
- The many members of the Society's plant expert group who answer questions from members of the public.

Finally, on behalf of APS NSW, I would like to wish you and your families a peaceful Christmas and New Year and that they may they bring you joy, happiness and everything else you deserve.

Cover images

Both Cover images were taken by Beth Gower from Tamworth Group. She photographed them in a section of Garigal National Park at Cromer last July.

Front Cover: *Hibbertia linearis* (Showy Guinea Flower) from the Dilleniaceae family. This is a shrub of variable habit widely distributed along the east coast. It is one of 150 species of *Hibbertia* most of which are endemic to Australia. Distinguishing the various species can be difficult and usually relies on the number of stamens that vary from 4 to 200. *H. linearis* has 15–20. *Hibbertias* were named in honour of George Hibbert (1757–1837), a London merchant and patron of botany.



Back Cover: *Darwinia fascicularis* subsp. *fascicularis* from the Myrtaceae family. This shrub is endemic to the NSW coastal area from Gosford to Bulli. The genus is named after Erasmus Darwin, the grandfather of Charles Darwin. Alan Fairley and Philip Moore, in *Native Plants of the Sydney District* explain the derivation of *fascicularis* as a reference to the Latin word 'fascis', a bundle. A Roman symbol of authority was a bundle of rods with an axe in the middle (the political term 'fascist' is derived from the same source). The flowers change from white to red as they mature.



Daviesia latifolia

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). Much of the native plant information from that site is available on the upgraded APS NSW website www.austplants.com.au.

Daviesia latifolia is another native plant that occurs in the Northern Tablelands of NSW. Growth habit, foliage and flowers are attractive features of this species, which is found in all eastern states including Tasmania. In NSW it occurs in both coastal and tablelands areas. The common name, Hop Bitter-pea, refers to the bitter taste of the leaves, and also it is said that the foliage was used as a hop substitute.

D. latifolia is a multi-stemmed shrub reaching a height of two metres. The leaves are leathery, elliptical or lanceolate, and up to 15 centimetres long. They are slightly twisted and have a network of veins.



The pea flowers are yellow with reddish-brown markings and are carried in clusters arising from the leaf axils. Blooms appear from spring to early summer. They are followed by distinctive triangular seed pods that hold two hard-coated seeds. Once the pods ripen, usually in mid-summer, they split open and expel the seeds to some distance. This is an efficient means of seed dispersal. It also presents a problem if seed is to be collected. In this case the clusters of seed pods should be bagged as they ripen so that the seeds are captured.

The Hop Bitter-pea would be an interesting addition to a native shrubbery or hedge.

Our relationship with *D. latifolia* extends over many years. In a previous Tablelands garden, *D. latifolia* regenerated in large numbers. There are also scattered naturally occurring populations on Yallaroo. Extensive roadwork on the road that passes our old property has triggered a proliferation of *Daviesia latifolia* seedlings.



The historical image of the species shown above is from a specimen growing in Fonthills Gardens, United Kingdom and was published in *The Botanist's Repository for New and Rare Plants*, 1811.



This short description appeared with the drawing: “This little shrub from New Holland is both new and beautiful, well adapted to grace any collection, being of easy culture, small in size, with abundance of brilliant little flowers growing from the axils of every leaf.”

The species name comes from the Latin: *latus*, meaning ‘broad’ or ‘wide’, and *folius*, meaning leaves.

Propagate from seed that should be treated with boiling water before sowing. Cuttings may be successful but are often slow to strike and may not produce a vigorous root system.

The image above is from *Curtis’s Botanical Magazine* (Vol 42 Plate 1757, published in 1815). The Magazine is the longest running botanical periodical with colour images. Beginning in 1787 it has been published continuously – although there have been several series within the overall sequence. From 1984 to 1994 the magazine appeared under the title of *The Kew Magazine*. In 1995 the publication returned to its roots and the historical and popular name *Curtis’s Botanical Magazine* again took precedence.

Which of the two historical images do you think best reflects the plant?

Environment

ANPSA meets politicians in Canberra

Dr Eddy Wajon, ANPSA National Conservation Officer. This article has been shortened and edited for this publication.

In August 2018 representatives from ANPSA met with a number of politicians, advisers and public servants¹ in Canberra to express concern about proposed clearing of remnant vegetation at Jandakot Airport, near Perth in WA. The ANPSA representatives were Dr Ben Walcott (past President), Dr Margaret Matthews (incoming President) and Dr Eddy Wajon (National Conservation Officer). They were accompanied by Mary Gray, President of the Urban Bushland Council of WA.

Jandakot Airport Holdings (JAH) propose to clear several parcels of land totalling 76ha for the purposes of commercial development. JAH is required to conserve this bushland in perpetuity as a consequence of a 2010 Master Plan (MP) which approved the clearing of 167ha of remnant vegetation for the purposes of aviation and commercial development. JAH holds a 50 year lease from the Commonwealth of Australia to operate Jandakot Airport.

The Environment Protection and Biodiversity Conservation (EPBC) Act is the key environmental legislation for regulating development of

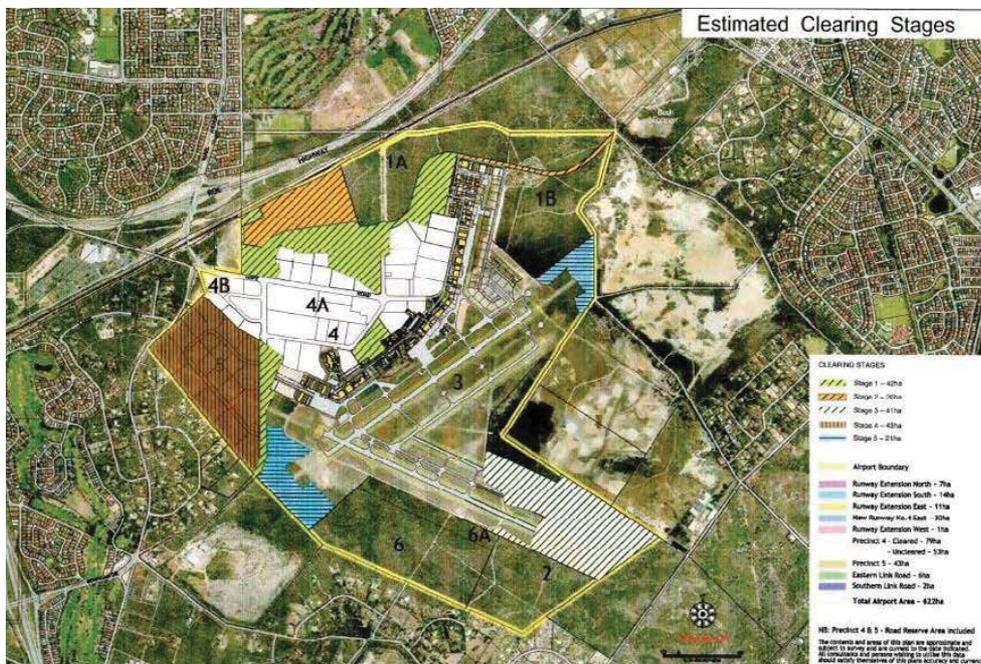


Figure 1. Jandakot Airport 2009 Master Plan approved clearing.

airports, but the Minister for Infrastructure and Transport gives the final approval for any new Master Plan.

The 2009 Master Plan (for construction of a fourth runway and associated taxiways EPBC 2009/4796) included approval for the clearing of 167ha of Banksia woodland. The Federal Environment Minister’s Condition Number 3 to the MP was that ‘the person must conserve in perpetuity all land in Conservation Precincts 1A, 1B, and 2’ (see Figure 1). Conservation Precincts 1A, 1B and 2 consist of the Commonwealth-listed Threatened Banksia Woodland Ecosystem and support the Commonwealth-listed Threatened species Carnaby’s Cockatoo and the Grand Spider Orchid, three Matters of National Environmental Significance (see Figures 2, 3 and 4). Each of these Matters of National Environmental Significance has declined significantly in the Perth metropolitan area in the last 10 years as a consequence of clearing for road, residential, airport and health infrastructure, and where they were once very common, are now increasingly rare.

Now, in releasing its intentions for its 2019 Master Plan, JAH has indicated it is seeking to have Ministerial Condition Number 3 revoked and is seeking approval to clear 76ha (65%) of the 119ha of Banksia woodland in Conservation Precincts 1A, 1B, and 2 which is supposed to be protected in perpetuity (see Figure 5). The purpose of this clearing is solely for commercial, not aviation, development. JAH, in meetings with WA State conservation agencies, apparently stated that clearing

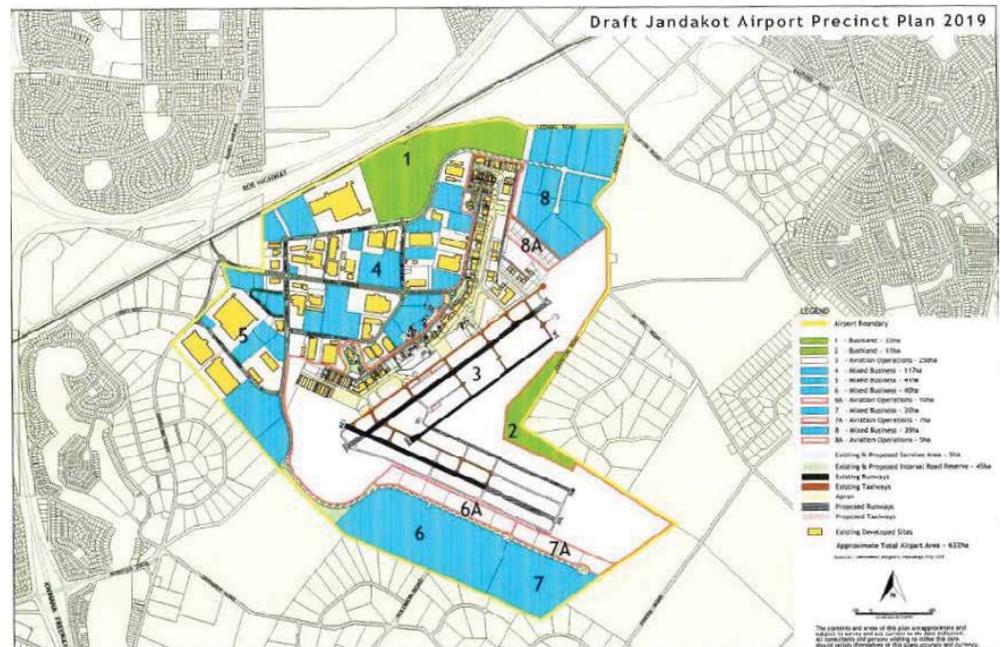


Figure 5. Jandakot Airport 2019 proposed Master Plan clearing.

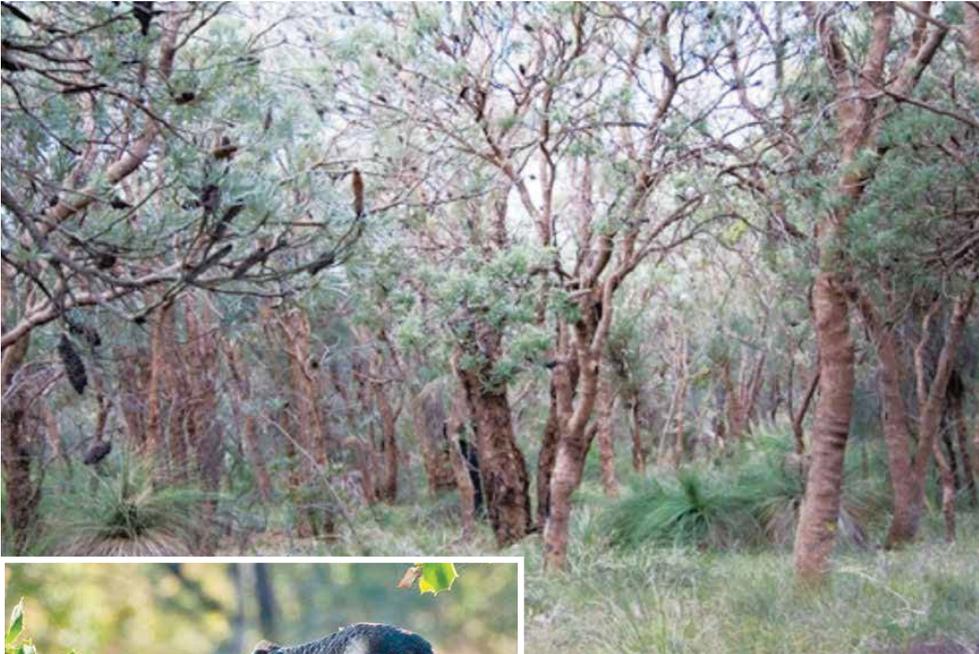


Figure 2 (above). Banksia Woodland in Jandakot Airport.



Figure 3 (left). Carnaby's Back Cockatoo.

this vegetation for commercial purposes was much better use of the land than retaining it for conservation.

ANPSA believes the proposed clearing is totally unacceptable and unnecessary and sought meetings with politicians and public servants to alert them to this proposal while it was still in the draft stage. So, in June 2018, the ANPSA National Conservation Officer held meetings with Federal and State parliamentary representatives whose electorates encompassed the location of Jandakot Airport, as well as the electorate of the National Conservation Officer². Each of these politicians supported ANPSA's position, and were opposed to JAH's proposal to clear 76ha of remnant bushland in Conservation Precincts 1A, 1B, and 2.

The Canberra meetings with the Ministers and Shadow Ministers, and/or their advisors, and public servants were very cordial and professional, lasting between 30 and 60 minutes each over two separate days. Each of the Ministers and Shadow Ministers indicated that they thought ANPSA presented a very strong case for JAH's proposal to clear any remnant vegetation in the Conservation Precincts to not be approved.

However, the Ministers and Shadow Ministers indicated that they could not force, or even recommend to, JAH that they remove their proposal to clear the remnant vegetation in the Conservation Precincts. They all indicated that due process needed to be followed, and that ANPSA (and others) needed to submit written comments on JAH's draft 2019 Master Plan when it is released for a statutory 60 day comment period, probably towards the end of 2018.

They thanked ANPSA for meeting with them to discuss, and in some cases alert them to, this proposal.



Figure 4. The Grand Spider Orchid

Further, the meetings with the Ministers and Shadow Ministers provided an opportunity for ANPSA representatives to introduce them to ANPSA, its aims and objectives, skills and areas of expertise, number of members and activities, including propagation, education and advocating for conservation of native flora and vegetation. This opportunity is rarely afforded to community groups, and should stand ANPSA in good stead as it continues and expands its horticultural, promotional and conservation activities.

Footnotes

1./

- Mr Steven Campbell, Senior Advisor (Aviation) to Hon Michael McCormack, Minister for Infrastructure and Transport
- Ms Leonie Horrocks, General Manager Airports, Aviation and Airports Division, Department of Infrastructure, Regional Development and Cities
- Ms Alannah Pentony, Advisor to Hon Melissa Price, Assistant Minister for the Environment
- Hon Tony Burke, Shadow Minister for Environment
- Mr Jeff Singleton, Senior Advisor to Hon Anthony Albanese, Shadow Minister for Infrastructure
- Mr Matt Whitting, Director, Major Projects Section, Department of Energy and Environment.

2./

- Hon Ben Morton, Liberal Member for the Federal seat of Tangney
- Hon Josh Wilson, Labor Member for the Federal seat of Fremantle
- Mr Yaz Mubarakai, Labor Member for the State seat of Jandakot.

Shoalhaven Adventure

Harry Loots is the APS NSW Treasurer, he is a member of Northern Beaches Group, but Harry makes good use of activities arranged by other groups and APS NSW. Here he has tagged along with Blue Mountains for a south coast adventure.



APS groups are engaged in a broad range of activities related to Australian plants. Besides organising garden visits and occasional forays into the bush some APS groups such as the Blue Mountains group devote a whole weekend to examining a particular area. This year the group visited the Shoalhaven.

Of course social activities at the Shoalhaven Heads Hotel and a Berry restaurant were indulged in but there was also some serious walking and plant identification. On the first morning we enjoyed a great display of orchids along Bomaderry Creek followed in the afternoon by a guided tour through the Shoalhaven Heads Native Botanic Gardens. The Bomaderry Creek walk took us down and back up a long deep sandstone canyon with spectacular rock formations and birds in abundance. The vegetation was mostly tall Eucalypts and Casuarina. There was a multitude of different birds to be seen in this area. To have a scrub wren land at your feet is always a delightful experience. Never having sighted a Noisy Miner in the Shoalhaven area probably explains the presence of small birds.



Shoalhaven Heads, like similar retreats along the South Coast is the end of the line for many a fisherman or pensioner living in one of the area's expansive caravan parks, gated estates for the poor. For others it is a luxury holiday or retirement home. There is also the suburbia of young families who work in nearby Bomaderry or Nowra. For all, there are the river, the dunes and the beach. Bushcare and gardening are also important activities. The fabulous botanic garden at Shoalhaven Heads was obviously a labour of love for many years before its official opening in 2011. The signage was a botanical education with descriptions of plants and the derivations of botanical names. Anyone visiting these gardens will be impressed with the species diversity and well-maintained beds and facilities. The overall impression is that a team works here right through the year.

www.weekendnotes.com/curtis-park-arboretum-shoalhaven-heads/

On Sunday morning we were shown the large native plant nursery at Berry Primary School. Students were learning how to propagate. A now retired teacher had planted various rainforest species about the school. His arboretum was an outdoor classroom of the forest. We were also introduced to the concept of establishing a corridor of plant and animal refuges from the Illawarra escarpment to the sea, the Berry Bush Links Project. Next Bill Piggott, a retired physician and health educator, until recently employed by the World Health Organization in different parts of Asia, introduced the Blue Mountains Group to trees of the Illawarra Subtropical Rainforest. After retiring to Berry in 2002 Bill became interested in Landcare. He first showed us a grove of local trees planted in 2006 at Mark Radium Park Arboretum, next to the new Berry road diversion. This small densely planted grove includes the Illawarra Flame Tree (*Brachychiton acerifolia*), Red Cedar (*Toona ciliata*), Turpentine (*Syncarpia glomulifera*), Spotted Gum (*Corymbia maculata*) and Red Ash (*Alphitonia excelsa*) among many other species. Later Bill showed us his five-acre block outside Berry where

he described how various rainforest species had grown once he stopped mowing his extensive lawns. A rich seed bank, long dormant and laid low by constant mowing, sprang to life as a dense eucalyptus forest with a bewildering variety of species such as Turpentine, Ironbark (*Eucalyptus paniculata*), *Pittosporum undulatum* and two-veined Hickory (*Acacia binervata*). Moeyan Hill Reserve, behind Bill's property, was a large Landcare project employing a project officer and professional bush carers. Volunteers and contractors had been carefully removing lantana. Again this was an opportunity for Bill to show us how the forest regenerates once weeds and human interference have been eliminated.



Thank you to Jim Plumber and Alix Goodwin for organising this trip.



Study Groups notes

This report has been compiled by Eleanor Handreck, the Study Groups Liaison Officer APS South Australia. This situation has occurred because no one has volunteered to be the Study Group Coordinator for NSW. Please consider if you are prepared to do this job. Your Society cannot continue without a core group of volunteers.

A listing of all Study Groups, their Leaders and their annual fees begins on page 40.

Acacia (No. 141, June 2018)

Articles in this issue cover *Acacia consobrina*, *A. ingramii*, *A. pataczekii*, *A. paradoxa* and a list of the acacias at the R.B.G. Kew. Finally, there is information about two endangered *Acacia* species (*A. wilsonii* and *A. meiantha*).



Acacia meiantha Photo Danielle Langlois ANBG 21/9/2005 (commons.wikimedia.org)

Brachychiton & Allied Genera (No. 47, March 2018)

This NL includes the Leader's experience with flowering in 2017/8 and a welcome to new members of the SG. The issue closes with a plant/flower gallery. (No. 48, June 2018) After more flowering information, there is news of seed and plants that are available from him, and information about nectary numbers for some tropical hybrids.

Eremophila (No. 121, Oct 2018)

This issue discusses the various versions of the yellow forms of *E. maculata*, which is the subject of some confusion; damping-off of cuttings; and the rescue of an undescribed form of *E. glabra*. Other articles cover eremophilas seen during a trip from SA to WA; the Fleurieu (S.A.) gathering in September; and eremophilas of Western Central Queensland. The feature plant is *Eremophila nivea*. And there is more!



(Far left) *Cyathea robertsiana*, near Mount Tiptree.
Left) *Grevillea gillivrayi* in New Caledonia.

Fern (No. 141, July 2018)

Excursions to Cougal Cascades in Springbrook N.P. and Wilson River Picnic Park open this NL. Information about recent changes to fern taxonomy follows, as does a report of a plant survey on Mt Tiptree and Davies Creek and a press release that states that one fern's sequenced genome holds environmental promise in the form of a gene that was shown to provide insect resistance.

Garden Design (No. 104, Aug 2018)

In this issue, you can read about ways of mixing natives and exotics in a garden, a new coastal garden, the influence of a Japanese Stroll Garden on Australian Garden Style, and a report of a visit to the SG's Leader's new garden. Readers are reminded of the ongoing threat posed by Myrtle Rust.

Grevillea (No. 110, June 2018)

After reports of SG activities, there is a very interesting article about the Proteaceae of New Caledonia, of which there are 43 species, including three grevilleas. There is an illustrated article about the Lowood (in QLD) Rail Trail plantings. A member describes his experience of, in Toowoomba, growing *G. petrophiloides* on its own roots instead of as a grafted plant.

Hakea (No. 67, June 2018)

The Leader reports that, in contrast to his excellent results from seed that he'd sown in late December 2016, germination of seed that was sown early last December was poor. He concluded that the nights were still too cool. Most eventually germinated, even if some took until March/April. Letters from members follow.

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
☎ 0425 887 068
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: Ben Walcott
10 Wickham Cres
Red Hill ACT 2603
☎ (02) 6161 2742
Email: bwalcott@netspeed.com.au

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 APS NSW Office and they can put you in contact with the ANPSA Study Group Liaison Officer.

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



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 Venno 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, Wauchope 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

Website: www.austplants.com.au

Facebook: 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

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

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



**Australian
Plants**
SOCIETY NSW

www.austplants.com.au