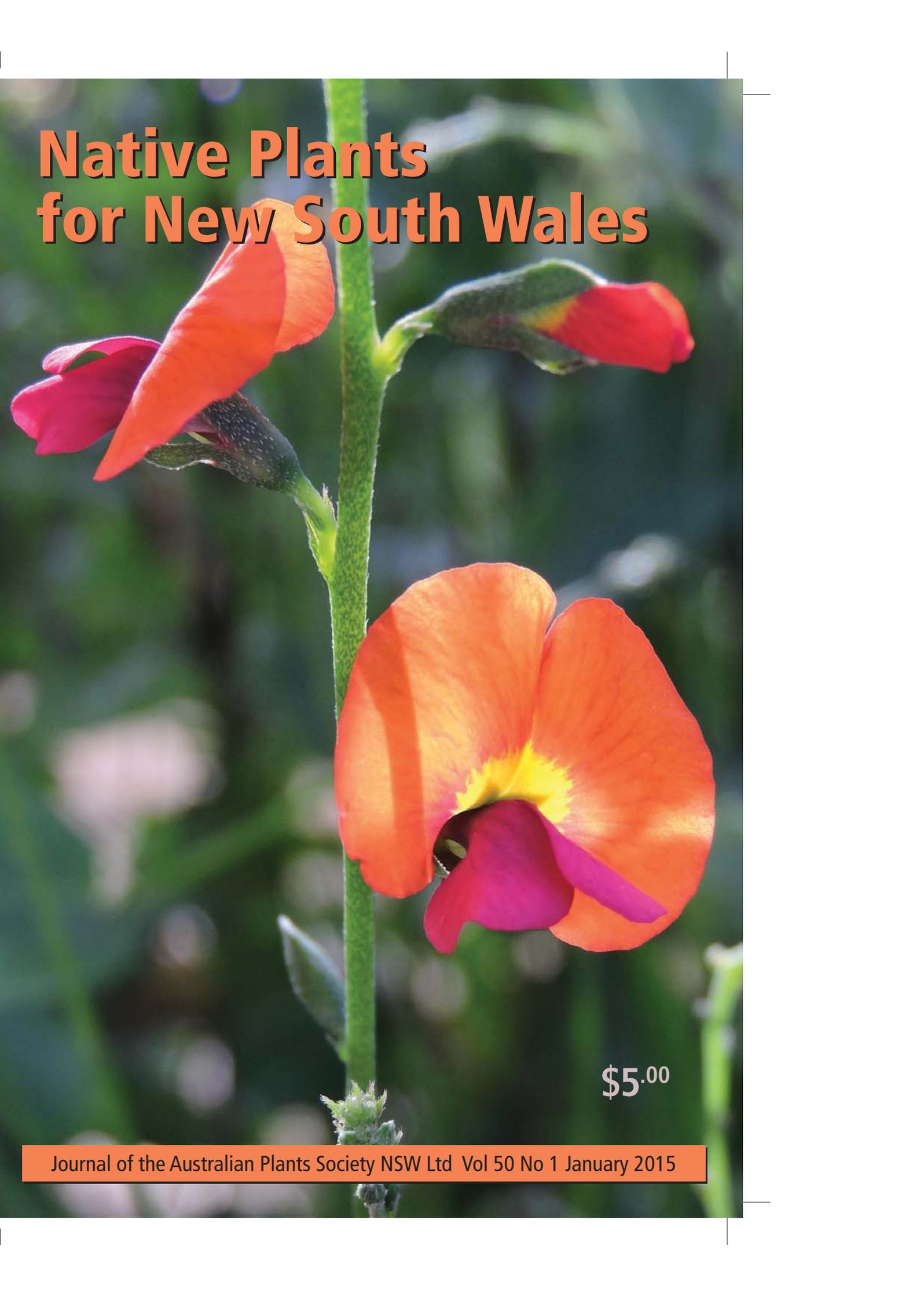


Native Plants for New South Wales



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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 may be submitted as either high resolution digital files, such as jpg, or prints.

APS NSW Office

Mail: PO Box 5026
Old Toongabbie NSW 2146

Phone: (02) 9631 4085

Email: office@austplants.com.au

Website: www.austplants.com.au

Facebook: www.facebook.com/APSNSW

**Deadline for the April 2015 issue is
1 March 2015.**

**Deadline for the July 2015 issue is
1 June 2015.**

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Front cover: *Chorizema cordatum* Photo taken by Ralph Cartwright of Southerland Group.

Back cover: *Hoya australis* Photo taken by Ralph Cartwright of Southerland Group.
See page 41 for more information.

Introduction

David Crawford, Editor *Native Plants for NSW*

Best wishes to all for a happy new year and lots of success with your native plant endeavours. APS NSW activities for 2015 begin with the March gathering to be hosted by North Shore Group at Ku-ring-gai Wildflower Garden (p. 8). This is followed by the AGM and gathering in May (p. 33) and the 2015 Get-together hosted by Blue Mountains Group in July (p. 35). So get out your calendar or diary and mark those dates to be involved with Australian plants in 2015. Keen readers will note that the District Group Diary section is no longer in *Native Plants for NSW*, but all of this information is available on the Society website www.austplants.com.au and all the key state activities are advertised in *Native Plants for NSW*.



A reminder that nominations are sought for Life Membership and the Conservation Award (p 17). North Shore Group is also advertising for their annual botany scholarship for a tertiary student, see p. 34. Entries and volunteers are needed for the Easter Show (p. 9).

The cover images come from Ralph Cartwright, a member of the Southerland Group. As always, I am keen to receive images and articles from members. This is your state journal and of course it doesn't write itself. While I'm on that topic, many thanks to those who have contributed to this and recent issues.

There are a couple of changes with this issue. Firstly there has been a price rise for membership, the first in seven years and well below inflation over that period. See p. 24 for the details. Also the membership renewal and application form (centre pages every issue) has had an overdue revision. Please try to use the new version (with up-to-date prices) when renewing.

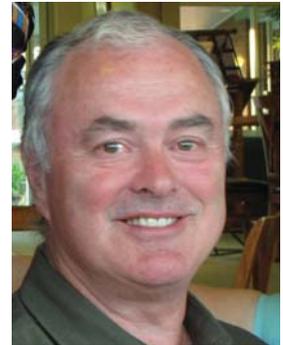
The articles in this issue are varied in style and content. Hopefully that reflects the diversity of our membership. The *Website Update* column that Mark Abell has written for the past few years is taking a break. I would like to feature some online resources that members use and think are worth sharing with the rest of us. So I am throwing out the challenge to all members to send in your suggestions of the best websites for native plants. You will need to support your claim with 100 words or so and with luck we will feature these in coming issues. I await the avalanche of replies and hope all members will find much to interest them in this issue.

Native plant profile

A *Billardiera* by any other name ...

John Knight continues his regular series, this time delving into the difficulties of 'pigeon-holing' plants.

The Pittosporaceae family includes plants which deserve to be better known and certainly more widely used as garden plants. This article focuses on *Billardiera* and the related genera of *Sollya*, *Pronaya*, *Marianthus* and *Rhytidosporum*.



What's in a name?

In the world of botany there are splitters and lumpers. The splitters look at minor differences and use these to distinguish plants at species level. The lumpers often disregard minor differences and search for characters which are similar, and therefore place what might appear to be quite different plants in the same genus. Such has been the case here, and gradually all *Marianthus* species were moved to *Billardiera*.

In recent times, DNA analysis has proved some botanists were correct in their assumptions while others were wrong. Cayzer, Crisp and Telford (2004) conducted a cladistic analysis of *Billardiera*. The word cladistic is from the Greek "klados", meaning branch, and is used to describe a method of classification of organisms, in this case plant species, based on whether or not they share one or more unique character that comes from the group's last common ancestor.

Their analyses indicated that *Billardiera* is a group of species descended from a common ancestor including the small genera *Sollya* and *Pronaya*, but excluding *Marianthus* and *Rhytidosporum*. The last two of these have previously been included in a broader concept of *Billardiera*.

This means we can again use the lovely name *Marianthus*, from Maria the Virgin Mary, and the Greek anthos, a flower, referring to the pure white flowers of the first described species, *M. candidus*. *Billardiera* honours Jacques de la Billardiere, botanist on d'Entrecasteaux's voyage of 1791-94, visiting Western Australia and Tasmania. The genus name *Rhytidosporum* refers to the wrinkled surface of the dry seed, from the Greek rhytido, wrinkled, and sporum, seed.

Twining and climbing plants for the garden

Most plants in this group are shrubby twiners or light climbers. They do not have the vigorous invasive habit of plants such as *Pandorea*

pandorana (Wonga Vine), and are quite readily accommodated in even a small garden. They grow and flower well in shaded sites, and most species are tolerant of dry conditions once established. They make ideal fillers between shrubs, can be easily trained to grow where you want them, and most will attract birds for nectar or fruit.

Here are some to consider for the garden.

Billardiera cymosa (Sweet Apple-berry) is a hardy little climber which flowers spring to early summer. From the drier inland areas of NSW, Victoria and South Australia, it does best in a well drained sunny site, and is tolerant of dry conditions. Flower colour varies from greenish white to reddish with blue tinges. Cuttings strike well through summer.

Billardiera floribunda, from the Jarrah forests of Western Australia, is not so readily grown but worth the effort. It is a prolific flowering slender climber, with white stars lighting up the bush through summer, and fragrant perfume. It needs to grow with protection, preferring shade, and needs watering during dry weather. Rarely seen these days, it can be propagated by cuttings of new growth through autumn.

Billardiera heterophylla, previously known as *Sollya heterophylla*, has a propensity for invading nearby bush and is not recommended as a garden plant, although many people in urban areas praise its hardiness and attractive habit. Despite its popularity, care should be exercised before introducing this plant into gardens near natural bushland. It has become an environmental weed in many areas of south-eastern Australia.

Billardiera longiflora (Purple Apple-berry) is another slender climbing species which prefers moist, sheltered conditions – it grows naturally in the cool forests of NSW, Victoria and Tasmania. This is widely grown, doing best with some shelter, and definitely appreciates a drink when dry. We are rewarded by prolific flowering through spring, when masses of greenish yellow bells festoon the branches. Bright purple berries adorn the plants for some time. Cuttings from firm new growth strike readily.

Billardiera scandens (Common Apple-berry) is found in most forests of eastern Australia. It is an easily grown climber which is happy anywhere, and flowers for long periods. When grown in full sun it tends to become shrubby, but looks best when allowed to climb, where its flowers are shown to advantage. The greenish yellow flowers, about 2-3cm long, are attractive to Satin Bowerbirds, which gather them fresh each day to display at the entrance to their bowers. Easily grown from cuttings.

Marianthus bicolor (Painted Billardiera) from WA, is a shrubby plant or with support, a slender climber. Cream flowers with striking purple lines on the petals are borne from mid spring through to winter. Plants do best with some protection from the hottest weather, but will survive dry spells without too much complaint. Stem cuttings strike well, using firm new growth.

Marianthus bignoniaceus (Orange Bell Climber) is a climber from the shady forests of the Grampians in Victoria, and South Australia's Mt Lofty Ranges. As such it does best in sheltered sites, and requires some water during dry weather. The orange to apricot bell flowers are well displayed on long stalks through spring and early summer. Cuttings of firm new growth usually strike well, but are best shaded.

Marianthus erubescens (Red Billardiera) comes from the heathy areas of south west WA, and grows well in cultivation. In full sun and well drained soil, it has proved a reliable plant for many years. Deep red flowers in small groups are borne from winter to summer. Cuttings are slow to strike, but those taken from vigorous regrowth produced by heavy pruning have been found to be more successful.

Marianthus ringens (Chapman River Climber) is a spectacular climber from north of Perth in WA. Adaptable in cultivation, it tolerates full sun or semi-shade, and is happy to receive extra water in dry spells, rewarding with abundant clusters of orange flowers which age to red. Flowering occurs from late winter through summer, but can also appear after rain. Cuttings usually strike well, using firm new growth during summer.

Rhytidosporum procumbens (White Marianth) is a tiny sub-shrub found in south east NSW, as well as in Victoria, Tasmania and Kangaroo Island. It grows about 30cm high and wide, with white flowers from late winter through spring. Propagation is easy using just-firm new growth in summer.

Care in the garden

Obtaining a range of these hardy plants has become more difficult in recent years, but I have managed to find one or two at specialist nurseries. I have not had a lot of success growing these plants from seed, but as cuttings are generally successful, there has been no need. Other growers have reported similarly, so it seems there might be some germination inhibitors at least in some species. If there are members who have recorded good germination, it would be valuable to let others know of your methods and experiences.

In general, plants in this group are pretty amenable to horticulture, and

some growers have been rewarded by using fertiliser high in potash in the months leading to flowering. Additional water on those species where this is indicated can also help in achieving the results you expect from garden plants.

As these plants are usually well behaved, maintenance is not a big issue. Light pruning is certainly helpful in maintaining vigour, and older plants have been rejuvenated by heavy pruning after summer, but it is important to ensure the plants are well watered before and after drastic actions to be sure they will grow away quickly.

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Marianthus ringens showing the petals joined in a tube at their base, with spreading tips
Photo: J Knight

Notice of a future activity

APS NSW March gathering Ku-ring-gai Wildflower Garden

Saturday 14 March 2015

Note this date is different from that advertised in the previous edition of *Native Plants for NSW*.

Our next quarterly gathering is at Ku-ring-gai Wildflower Garden at 420 Mona Vale Rd, St Ives. The event is hosted by North Shore Group.

Program

Open from 8 am	Take a self-guided tour. Maps are available at the new Visitors Centre.
10.30 am – 11 am	Tea and coffee available. BYO nibbles.
11 am – 12 noon	Bushwalk guided by Wendy Grimm leaving from Caley's Pavilion.
12 noon – 1 pm	Lunch – bring your own.
1 pm – 2.30 pm	Guest speaker Peter Clarke on 'Pools to Ponds', followed by a short talk by Mark Abell on 'Pond Plants'.
2.30 pm onwards	Afternoon tea and plant sales.

Note: A small entry fee of \$5 will be charged to cover costs.

Peter Clarke, from Ku-ring-gai Council, will explain the 'Wildthings Program' which encourages anyone with an unused swimming pool to turn it into a delightful pond for wildlife. Learn about the benefits of increased biodiversity, reduced electricity costs, reduced chemical use, reduced maintenance and opportunities to learn about aquatic life.

The Ku-ring-gai Wildflower Garden is the spiritual home of the North Shore Group. Established in 1962 at the instigation of APS and developed by APS and Ku-ring-gai Council, it covers 250 acres of Hawkesbury sandstone bushland. Current APS activities include a weekly 'Walks and Talks' educational program, flowering plants display, propagation, plant sales, development of the Knoll area, plant signage, plant database and mapping for self-guided walks.

We look forward to seeing you there.



Volunteers needed to help APS NSW at Easter Show

Help promote Australian plants and your Society by participating in one of the most popular shows in Sydney.

Competition entries

Time is short. You will need to act quickly to enter flowers for competition in the Easter Show for 2015. Again this year there are two sessions – Australian Plants in session 5 and Banksias in session 7. Go to the RAS website www.sydneyroyal.com.au/flowers to enter and help fill the hall with amazing native plants – one or two extra entries will make all the difference. You can enter as an individual or as a group. As a group you pay the one entry fee and everyone can enter under your group name.

Call for volunteers

APS NSW has been allocated a 3 m x 3 m space for presenting a display of Australian plants and information about the Society.

We need volunteers to staff the APS NSW stand for six days at the Show from Thursday 26 March to Tuesday 31 March 2015. We will also have a table during Session 5, on Good Friday, 3 April and the following day, Saturday 4 April. Free entry to the show is an added benefit to helping your society and promoting our flora.

The stand is open from 9.30 am to 5.30 pm each day. 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 answer questions from the general public about the plants on display and the Society and also to distribute membership information to those interested in joining.

If you are able to assist in any way, please contact Leonie Hogue on 9528 6083 or leoniehogue@gmail.com or the office on 9631 4085 or office@austplants.com.au

Report on a recent activity

November 2014 Hawkesbury gathering

The APS NSW November gathering was held at Windsor on a hot and windy day. But that did not discourage the interest of APS members. The small hall was packed with approximately 60 attendees from a wide range of district groups. The event relaunched the Hawkesbury APS Group and the two speakers, Jessica Mowle and Kath Gadd were excellent.

Jessica is a PhD student at the University of Western Sydney conducting research into the endangered Wollemi Pine. She spoke on *Improving the recovery outcomes of the critically endangered Wollemi Pine, in particular is success determined by soil microbes?*

There are fewer than 100 plants in the wild. Quite a number of seedlings germinate but typically 65% die in the first year and recruitment of new trees is extremely poor. The serious fungal root-rot pathogen *Phytophthora cinnamomi* was introduced to the area through unauthorised entry around 2005. This represents a real threat to the survival of this iconic species in the wild. A recovery plan exists and Jessica's research is aimed at aiding this plan. Jessica described the work she is doing in analysing the soil microbial community and studying the growth of Wollemi Pine both in the glasshouse and



Left: Successfully translocated Wollemi Pine (*Wollemia nobilis*) growing in the new 'insurance' population in 2012. Photo: J Mowle; Right: Wollemi Pine and Coachwood (*Ceratopetalum apetalum*) seedlings involved in a glasshouse plant-soil feedback experiment at UWS, Richmond. Photo: J Mowle

in the new 'back-up' population that has been planted in a carefully selected location in the wild. Factors such as light, moisture and acidity have all been considered. The Wollemi Pine can form two types of mycorrhizal associations and part of Jessica's research has been to better understand these associations and to investigate what protects the Wollemi Pine from pathogens. Her research is continuing.

See p. 36 for an abstract of Jessica's PhD research topic with some links for those wanting to learn more on this important subject.

Cultivation advice for Wollemi Pine

For those of us who have a Wollemi Pine in our garden or as a pot specimen, here are some hints that Jessica shared with the audience. Success appears to depend upon:

- a good quality potting mix,
- filtered or dappled light,
- a cool root run,
- not over-watering: they are more likely to die from water-logging than drying out so a weekly watering is probably sufficient,
- fertilising but not excessively; they are not phosphorus-sensitive,
- having an acid growing medium with a pH less than 6.

Garden design

Kath Gadd was our second speaker at the gathering. Kath is a practising landscape designer who specialises in using native plants. Her well-illustrated and practical talk provided an introduction to some of the key factors to consider when undertaking a garden design. Kath has written an article for this issue of *Native Plants for NSW* as a follow-up to her talk. In this she has concentrated on three of the principles of design: mass & void, focal points & framing and unity & repetition. See p.12 to read Kath's article.

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Designing a native garden

Kath Gadd, is a member of Illawarra group, a landscape designer and was guest speaker at the November 2014 gathering at Windsor. Her business website is malleedesign.com.au



‘A garden is a process not a product’

This is a quote from Fiona Brockhoff, Melbourne-based landscape architect with a reputation for creating uniquely Australian gardens.

Most passionate gardeners will inherently understand this statement. In my eyes as a designer, a garden is never really finished, as much of its success lies in the loving maintenance and care it receives. Often, the quality of a garden design will only become evident years down the track. Some designers argue that much of the design is ‘created’ precisely in how the gardener cares for their garden.

I have been working in the garden design industry since 2004. For the last six years I have dedicated myself to designing gardens using only a palette of Australian native plants. I believe that, with a little forethought and planning, all garden design styles can be successfully adapted to this plant palette.



Getting started

One of the most important considerations when planning a new garden is the structure and topography of the existing space. It is this existing space that will define what is possible, and it is important to understand and work with it, rather than against it. An understanding of the kinds of plants that will work well in your area can be gained by observing other gardens in your neighbourhood. It can also be beneficial to observe plants in their natural habitat by going for the occasional bush walk. Renowned Australian garden designer of the last century, Gordon Ford, proposed that 'We must feel a part of the land we walk on and love the plants that grow here if we are to achieve a spirit in the garden'.

Design principles

Garden design principles can be used as a guide to help in your garden planning, or simply to generate inspiration. Even a broad overview of some of these principles can be enough to help create a harmonious and cohesive garden. Three of the many principles of landscape design are mass and void, focal points and framing, and unity and repetition.

Mass and void

One of the most useful techniques for designing a garden is to consider the balance of mass or solid areas, with voids or empty spaces. Gordon Ford, a well-known Australian garden designer, was renowned for his



ability to design gardens in this way. Ford would create mass using a combination of basalt boulders, large shrubs and trees. This would be offset with voids created using groundcovers,

paving and water. By getting the right balance between open space and solid space, a garden can be made to feel protective without being claustrophobic, and intimate without feeling isolating.

Focal points and framing

By considering focal points and framing, you can sculpt views into your garden. A good approach involves creating one main focal point within each vista. It is also important to consider these vistas from within chosen rooms inside your home. Taking inspiration from traditional Japanese architecture, windows can be transformed into picture frames showcasing the garden beyond as a living painting.

A focal point can be anything that will catch the eye: it can be a birdbath, views to a mountain or the ocean, a sculpture or a feature plant. Focal points provide a focus to the experience of the garden and can help guide the viewer through the design.

Existing features such as mature trees or borrowed landscape can be framed by new plantings, thus enabling them to be focal points.



Unity and repetition

I am forever falling in love with different plants, which I then take home despite not having space for them in my garden. If you are like me, then this design principle will be difficult to execute. It is the choice of planting that typically creates unity and repetition in a garden. By repeating groups of plants different garden beds can be tied together to create harmonious spaces. This can also be achieved in the hard-scaping of a garden, by choosing a simple and limited palette of materials such as hardwood sleeper edges or low stonewalls.

Repeating hard-scaping elements from space to space will bring harmony and consistency to a garden.

When designing a garden from scratch it is best to avoid choosing plants in the early stages. Choose shapes, sizes and form first and then choose the plants that fulfil those elements. I have also discovered a sneaky way of getting around the impulse plant purchase: buy 3 or more, that way you can repeat the plant within a garden bed and it won't look chaotic.

Another thing to consider when choosing plants for your garden is to take into account flowering times and duration. But flower colour is almost always secondary to plant form, leaf colour and texture.



Unity and repetition in hard-scaping materials. Photo: K Gadd

Final thoughts

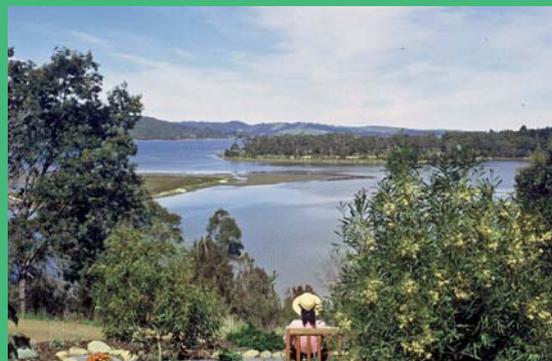
And last but not least when designing your garden, be realistic about the amount of gardening that you want to do. While there is no such thing as a no-maintenance garden, you can design and plan to keep maintenance to a manageable level. It is your garden for you to enjoy and as the old saying goes, ultimately 'beauty is in the eye of the beholder'.



Unity and repetition in planting. Photo: K Gadd

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APS NSW Life Membership and Conservation Awards 2015

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. APS NSW invites Groups to submit written nominations for Life Membership. The Board must endorse all nominations prior to consideration by the Annual General Meeting in May 2105.

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

The information supporting the nomination for Life Membership must include the nominee's name, Group, length of membership of the Society, any community awards and an outline of their contributions to promote the aims and objectives of APS NSW.

The nomination must be supported by at least two members of the Society, including the President of a Group, and include the names, addresses and contact details of the two nominators.

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.

The nomination must include appropriate supporting information, including any papers, articles, submissions or projects presented by the nominee or Group.

The nomination must include the names, addresses and contact details of at least two nominators, with at least one of the nominators being a member of APS NSW.

Nominations in both categories must be received at the Society's office no later than 18 March 2015.

Postal Address:

PO Box 5026
Old Toongabbie NSW 2146 or

office@austplants.com.au

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

Conservation Report

Dan Clarke, Conservation Officer, APS NSW

There have been some encouraging outcomes in biodiversity protection and management, due to public concern. There is ongoing concern about mining in environmentally sensitive areas and the controversial 10/50 vegetation clearing rule for bushfire protection.



The importance of public submissions

The refusal by the NSW Planning and Assessment Commission for an open-cut coal mine in the 'Gardens of Stone' in Ben Bullen State Forest, north of Lithgow, highlights the importance of public submissions on development proposals and demonstrates that not all proposed developments are located or designed in an appropriate manner for biodiversity conservation.

Public concern also influenced Premier Baird's recent decision to reduce the eligible areas subject to the 10/50 bushfire protection rule. The NSW government has listened to local councils, as well as residents who have voiced strong concerns about the amount of inappropriate tree clearing taking place under this policy and will now pursue a more sensible and conservative course of action for bushfire protection.

APS NSW made a submission to the proposed review of biodiversity protection and management legislation in NSW which will potentially simplify biodiversity protection policy, especially for rural landholders. While I encourage better provision of information between government and land managers on biodiversity issues, I hope this review is not aimed at reducing the current protective mechanisms for listed threatened communities, populations and species, as well as other native vegetation in NSW. Our submission is on the APS NSW website, filed under Conservation, or it can be accessed at www.environment.nsw.gov.au/biodiversitylegislation/BLRevSubmissions.htm and head to No. 303. The review report is due on 18 December 2014.

Save our Species program

Of very great interest to APS NSW is the NSW government's Save Our Species program which is being established. The SOS program aims to maximise the number of threatened species that can be secured in the wild in NSW for the next 100 years. While the required 10-year grant commitment was considered a bit too much for APS to take

on, we can be involved in small-scale efforts of our own choosing in terms of threatened species management as part of the SOS program. For instance, I am investigating getting Sutherland Group involved in some of the management objectives identified for our locally occurring *Prostanthera densa*. One of its targeted locations is the Royal National Park, where the current population extent has been flagged as unknown. Sutherland Group members, as well as anyone else who is keen, could undertake a survey and reporting exercise for the species, in place of a usual weekend bushwalk. North Shore Group members Mark Abell and Wendy Grimm have also expressed their intention to manage selected threatened species in their local area. This program provides an excellent opportunity for members to get more 'hands-on' with threatened flora species in their region. If you are interested in a threatened species in your area, you can check if it has been targeted as a site-managed species at www.environment.nsw.gov.au/savingourspeciesapp/managementstream.aspx?managementstream=sitemanaged. Or notify me of your species of interest and I will check for you. I can now be reached at conservation@austplants.com.au. I will keep you posted on our progress on the APS NSW website under Conservation and in future articles.



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Kimberley Discovery
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Eastern and Southern Kimberley Discovery
12 Day Camping Tour – Departs Kununurra 17th June 2015
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Vale Neroli Rose Lock (1941–2014)

Nancy Pallin and Pat Chadwick on behalf of APS North Shore Group

When Neroli Lock died in September 2014, we lost one of our most powerful voices for native bush in Sydney's northern suburbs. Neroli, who was President of North Shore Group in 2009, was a very active Bushcare worker and an uncompromising fighter for the preservation of our remnant patches of Blue Gum High Forest. She led a successful campaign to have these areas declared a Critically Endangered Ecological Community. This re-classification saved a large area we call



102 Rosedale Road, St Ives from being sold for private housing, which was important as it immediately adjoins Browns Forest and Dalrymple Hay Nature Reserves. Commonwealth Government and Ku-ring-gai Council funds, with private donations, financially secured the site, which is now part of Browns Forest.

Neroli led the volunteers who weed this area and Dalrymple Hay Nature Reserve. Neroli had been a much-loved and influential teacher at Abbotsleigh School. She brought her leadership skills to bear in running the volunteers at Dalrymple Hay, where she taught enthusiastic amateurs about weed identification, habitat and wise management practices. Substantial areas of Dalrymple Hay have been cleared of weeds, and the regeneration of beautiful native vegetation has been wonderful to see.

She worked on many weed-infested bushland areas since 1991. Even when undergoing unpleasant oncology treatments over the last three years, she was always vigorous, hard-working and cheerful.

It was a privilege to learn from her, to work with her, and she is very sadly missed by co-workers and all who knew her. Her legacy is the treasure of reclaimed and preserved bushland, and the inspiration for others to carry on the work.

Correction to *Hakea bakeriana* article

In the article *The flowering of Hakea bakeriana - enjoyment for half a lifetime* in October 2014 issue of *Native Plants for NSW* an error was introduced when some of the captions and images were accidentally transposed. On p. 15 the upper image should be captioned 6. and the lower image 5. The error resulted from a last-minute layout change when unfortunately the captions did not move when the images were relocated. Your editor claims 'page blindness' by this stage of production and apologises to the author, Hugh Stacy, who went to great lengths to ensure that all would be perfect.

Advertising in Native Plants for NSW

Size	Members		Non-members	
	Single Issue	4 Issues	Single Issue	4 Issues
Full page	\$122.50	\$416.50	\$175	\$595
½ page	\$63	\$214	\$90	\$306
¼ page	\$31.50	\$107	\$45	\$158.50

An Orchid Story

Childhood experiences often shape our adult interests. Sarah Cains of Southern Highlands Group reflects on her early exposure to the mysteries of orchids and her current interest in the orchids of Mt Gibraltar Reserve.

When I hear the word 'orchids' my mind jumps back sixty-or-so years to the street in Sydney where I lived as a child and the family who lived next door. Mr Gill, the father of a pair of our favourite playmates, had an orchid house. This mysterious and forbidden space crouched in the shade of camellias at the bottom of his garden. Despite the summer heat, the orchid house was always cool and damp. It smelled of rotting vegetation. On wood-slatted shelves stood ranks of terracotta pots crammed with Mr Gill's treasures: orchids! We kids were exhorted to regard them with the greatest reverence.

On reflection, I suspect they were cymbidiums which have been the subject of hybridisation in Europe since the 1860s, resulting in some spectacular, if non-functional, flowers. I remember Mr Gill's solo excursions into nearby native bushland – disappointingly, we were never allowed to tag along. He would return carrying sacks of a mysterious substance called 'leaf mould'. This was whispered to be a vital ingredient in the mysterious alchemy carried out in the orchid house. Could this have been my first experience of mulch?!

From the crammed pots, long stems would emerge bearing extraordinary flowers. These were a source of wonder, though we free-roaming ruffians were cautioned to view them from a respectful distance. It was rumoured amongst us kids that the bulbs exchanged hands for vast sums of money. Awesome!

The inside of the Gills' house, where we were always made welcome, was redolent of old books, ageing wool carpet and the violets Mrs Gill nurtured in the shade under the frangipani tree on the side path. On hand-embroidered doilies, stems of orchids were to be seen towering from vases of coloured glass.

Here in the Southern Highlands in late winter, spring and summer, those who tread carefully in the Mt Gibraltar Reserve, known to locals as The Gib, will find orchids of a different appearance. These are native orchid species, free of man's interference with cross-breeding. The flowers are small in comparison with those of Mr Gill's exotics, but nonetheless beautiful; and these flowers efficiently perform the work required of a genuine flower.



The Tiger Orchid,
Diuris sulphurea
and inset where the
orchids are located
in close proximity to
the communications
facilities

Photos: S Cains

Alan Stephenson, author of the excellent and informative booklet *Orchid Species of the Shoalhaven*, tells me that most native orchids are pollinated by insects attracted to the plant by pheromones (a scent). The markings on the flower mimic the markings of a female insect, therefore deceiving the male insect and enticing him into the flower. Although few native orchids provide insects with a reward of nectar, this hoax is obviously highly effective.

Most of our local native orchids grow in the ground (terrestrial), though some (lithophytes) grow on rocks. Most native terrestrial orchids are sympodial (growing from a new shoot each year) so they can only be seen when they produce a single leaf or a rosette of leaves before they send up a flower.

Species found on The Gib include *Diuris sulphurea* (the Tiger Orchid with bright yellow petals and striking brown spots), *Dipodium punctatum*, (the Blotched Hyacinth Orchid with pale pink petals with darker pink spots) and a variety of Greenhood orchids. And around Christmas time, if you know where to look you might be fortunate enough to catch the fragrance and see a stem of the chubby, brown Potato Orchid, *Gastrodia sesamoides*.

A major reason for the diminishing population of orchids is habitat destruction. So land-clearing, infrastructure and road works continue to threaten the native orchid population. Increased low-intensity winter and autumn burn-offs in the name of reducing bush fire danger are, in the words of the moderately-spoken Mr Stephenson, “not conducive to good orchid management”. Clearly we need to be active in protecting these treasures.

APS NSW administration

Vice Presidents' Report

Mark Abell and Graeme Ingall, Vice Presidents of APS NSW

Increase in membership fees

At the Board meeting on 1 December 2014, the Board agreed to increase membership fees for the Australian Plants Society NSW by \$3 for each of the four categories of membership. The fees have been the same for seven years since January 2008, when they increased by \$6 in each category. The previous fee increase was in January 2004.

The Society's financial position is summarised in the Annual Report for 2013 – see extract from the Directors' report to members below.

Review of Operations

In 2013, the State Office made a net operating loss of \$22,898, compared to a loss of \$15,705 in 2012. The increased 2013 loss of \$7,193 was due to a combined decline in revenue from membership, a decline in interest received of \$7,935 and an increase in general expenditure in State operations of \$2,407.

Overall, the Company made a small profit of \$8,530 through the combined profits of the District Groups and the APS NSW Bequest Fund. The monies of the District Groups are NOT available to the State Office and remain within the Groups for their operations.

APS NSW Profit and Loss Summary is as follows:

Revenue	Profit	Loss
State Office		\$22,898
District Groups	\$12,006	
Bequest Fund	\$19,422	
Net Operating Profit	\$8,530	

The fees from 1 January 2015 are:

Type		Concession	
Individual	\$53	Individual – Concession	\$45
Joint membership	\$61	Joint – Concession	\$53

58% of our memberships are in the concession category.

The new fees are on the membership form in this issue of *Native Plants for NSW* and on the membership form on the APS NSW website. Please ensure you use an up-to-date renewal form and that the correct amount is paid.

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: Philip Rose
Email: prosecarwell@bigpond.com
Secretary: Helen Schwarz ☎ (02) 6772 1584
PO Box 166, Armidale NSW 2350
Email: woshes@bigpond.com

Meetings: Native Plant Forum, TAFE Library Seminar Room, Beardy Street, Armidale
3rd Tuesday of the month at 7.30 pm (excluding December, January, June, July).

Blue Mountains

President: Dick Turner ☎ (02) 4839 5362
Secretary: Alix Goodwin ☎ (02) 4739 1571
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: Richard Street ☎ 0414 762 324
Secretary: Liz Hoesle ☎ (02) 4339 1274
Email: elizabeth44@optusnet.com.au

Meetings: Phillip House, 21 Old Mount Penang Road, Kariang
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: Gillian Baldwin ☎ (02) 6332 1583
Secretary: Lyn Burgett ☎ (02) 6331 9170
Email: l.burgett@bth.catholic.edu.au

Meetings: Bimonthly at alternating centres.
Contact the secretary for details.

Coffs Harbour

President: Dr M Duggan ☎ (02) 6649 3202
Email: morris@guarana.org
Secretary: Gwyn Clarke ☎ 0419 414 324
123 Sandstone Dr, Kungala NSW 2460
Email: gcl.38500@bigpond.com

Meetings: Coffs Harbour Botanic Gardens Display Room normally on the 2nd Wednesday of alternate months at 7.30 pm (excluding Jan).
Website: www.coffs.australianplants.info

East Hills

President: Graham Walters ☎ (02) 9534 3039
Email: agwalters@bigpond.com
Secretary: Karlo Taliana ☎ (02) 9709 6135
Email: karlo.taliana@optusnet.com.au

Meetings: New location is being sought. Check with the President to confirm details.
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 has been inactive but is keen to restart and is having a re-launch at the APS NSW gathering in November

Hunter Valley

President: Michael Belcher ☎ (02) 4930 1458
Secretary: Kevin Mantle ☎ (02) 4937 3200
29 Wallaroo Road, Seaham NSW 2324
Email: Mantlejanet@yahoo.com.au

Meetings: The Polish Hall, Cnr Grant & Old Rose Sts, Maitland
3rd Wednesday of the month (Feb-Nov) at 7.45 pm.

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.

Continued page 28

Membership application and renewal form

Please select your application type.

- New member
- 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 _____

Postcode

Email _____

Phone () _____

Mobile _____

District Group affiliation _____

2. Select your membership type

12 months membership. Rates at 1 January 2015. 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 | \$53 | <input type="checkbox"/> Individual – Concession | \$45 |
| <input type="checkbox"/> Joint | \$61 | <input type="checkbox"/> Joint – Concession | \$53 |
| <input type="checkbox"/> Overseas | A\$60 | | |
| <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 _ _ / _ _ CVV/CSC: _ _ _
(The last three digits printed on the signature panel on your card)

Cardholder's name _____

Cardholder's signature _____

Direct deposit

Bank	Commonwealth Bank of Australia
Account name	Australian Plants Society NSW Ltd
BSB	062 217
Account no.	0090 7163

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

APS 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

District Group directory continued

Macarthur

President: Kevin Matthews
Secretary: Rod Bray ☎ (02) 4647 9928
147 Holdsworth Drive, Mt Annan NSW 2567
Email: yarbdor@westnet.com.au
Meetings: Jack Nash Club Rooms, Nash Place
Currans Hill NSW 2567. 3rd Wednesday of the
month at 7.30 pm (Feb-Nov).

Menai

President: Jason Cockayne ☎ (02) 9570 8559
Secretary: Annette Tuckfield ☎ (02) 9543 1490
Email: menaiwildflower@austplants.com.au
PO Box 3104, Bangor NSW 2234
Meetings: Illawong Rural Fire Service.
2nd Wednesday of the month at 7.30 pm
(excluding January).

Newcastle

President: Leanne Pattinson ☎ (02) 4977 2773
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: conny.harris@gmail.com
Joint Secretaries:
Jan Krone ☎ (02) 9938 3857
Julia Tomkinson ☎ (02) 9949 5179
PO Box 393 Dee Why NSW 2099
Meetings: Stony Range Botanic Garden, Dee
Why. 1st Thursday of the month at 7.30 pm
(February-November).

North Shore

President: Barry Lees ☎ (02) 9653 3691
Email: barrylees99@bigpond.com
Secretary: Wendy Grimm ☎ (02) 9144 5600
PO Box 344, St Ives NSW 2075
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) 4443 4004
Secretary: Gwen Smith ☎ (02) 4443 3497
PO Box 140, Sanctuary Point NSW 2540
Email: rapidpulse@bigpond.com
Meetings: Nowra Town Band Hall,
174 Kinghorne St, Nowra. 2nd Thursday of the
month (Feb-Nov) at 7.30 pm sharp.

Parramatta and The Hills District

President: vacant
Secretary: Brodie Sutcliffe ☎ (02) 8809 0833
Email: brodie.fuller@hotmail.com
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: Margaret Lynch ☎ 0408 447 678
Email: yaraan@southernphone.com.au
Secretary: Michele Pymble ☎ (02) 4473 8587
Email: mishpymble@gmail.com
Meetings: At alternating locations on 1st
Saturday of odd numbered months. Contact
Co-ordinator or Secretary. Field trips and other
functions at other times.

Southern Highlands

President: Wendy Johnston ☎ (02) 4883 6376
Secretary: Jane Pye ☎ (02) 4862 3750
Email: iandjpye@gmail.com
Meetings: CWA Room, next to council building
in Elizabeth St, Moss Vale. Bimonthly at 2 pm on
the 1st Thursday of February, April, June, August
and November.

Southern Tablelands

President: Bob Galland ☎ 0407 248 154
Email: rcgalland1@bigpond.com
Secretary: Gudrun Delbridge ☎ 0417 651 811
Email: gudrun.delbridge@gmail.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: Kerrie Gray ☎ 0427 652 986
PO Box 1193, Tamworth NSW 2340
Email: dyso57@bigpond.com
Meetings: Botanic Garden Meeting Room.
10 am on 4th Saturday Feb to Nov. Outings
and field trips at other times – contact the
Secretary.

APS NSW Seed Bank update

John Randall, Seed Bank Curator

Requests for seed can be sent by mail to:

John Randall
8 Coachmans Place,
Mardi NSW 2259



An updated seed list was published in the April 2014 issue of *Native Plants for NSW*. This list can also be found on the APS NSW website www.austplants.com.au by selecting **Seed Bank** in the **Resources** pane on the Home page, or it can be accessed directly by pasting the following address into your browser austplants.com.au/seedbank

There is a limit of six seed packets per request. Inquiries can be made to John at johnannette@dodo.com.au or on (02) 4353 9390. Please enclose a stamped (\$1.40) self-addressed envelope (110 x 220 mm) for return of the seeds. Please address seed requests in alphabetical order and include a list of alternative selections.

Seed donations are always welcome and are vital if the seed bank is to remain viable. Please state the source of the seed, whether from natural or cultivated material. Please do not send seed from hybrid plants.

Additions: *Acacia pubescens*, *Clematis gentianoides*, *Libertia paniculata*.

Deletions: *Eucalyptus burgessiana*, *Eucalyptus baxteri*, *Eucalyptus eximia*, *Eucalyptus gomphocephala*, *Eucalyptus longicornis*, *Eucalyptus kitsoniana*, *Eucalyptus nitida*, *Eucalyptus oblonga*, *Eucalyptus obliqua*, *Eucalyptus olsenii*, *Eucalyptus socialis*, *Eucalyptus sieberi*, *Eucalyptus umbra*, *Corymbia peltata* subsp. *leichardtii*.

Donors: E. Rooksby, B. Giles and P. Lawer



Australian Native Plants Society (Australia)

Visit ANPSA on the web at <http://anpsa.org.au>

Cultivation and propagation information, extensive photo gallery, ANPSA events, online magazine and much more.

Membership

Growth and Promotion

The APS NSW Growth and Promotion Action Plan includes actions for both APS NSW and District Groups to increase society membership. But there are easy things that every individual member can do to help spread the word about APS, and to encourage potential members to join.

Our members are our best advertisement. If you like being in APS, tell other people! We all mix with other people who may be interested in Australian plants, such as bushwalkers, Bushcare volunteers, bush regenerators, students and gardeners. If all our 1,500 members share their enthusiasm, we will grow and attract other enthusiastic people.

Here are some tips

- If someone asks you about APS, tell them what you enjoy about it. It might be the friendly faces at activities, the interesting speakers, the other members who share their local plant knowledge, the free cuttings, or even the great morning teas and suppers.
- Be prepared with handy information. Several Groups have business cards with the Group details such as meeting details, website and email. Carry a few cards with you. You never know when you might run into someone on a bushwalk or activity.
- Identify yourself as an APS member by wearing your APS name tag, APS t-shirt or Group shirt at events.
- Be clear about who we are, the name of the organisation and how people can find more information: the website is www.austplants.com.au. Saying "I'm going to my plant group meeting tonight" doesn't help a potential member find out how they can participate.
- Be specific about meeting details. Telling someone "we meet once a month" is not as helpful as saying "APS Sutherland Group meets on the third Wednesday at 8 pm at Gynea Community Centre".
- Make it easy for people to try an APS activity. Offer to bring a friend or neighbour along to an activity or remind them when it is on. Tell them what to expect. Pass on a newsletter or journal.

It's not just up to the APS NSW Board or your Group's Committee to think about membership. Just talking about APS and what you enjoy as a member is a great start. If you do want to do more, all members can access the ever-increasing Growth and Promotion resources at the APS NSW website for ideas. Log in at www.austplants.com.au

APS activities in focus

APS Out and about

This is a regular column where local groups are invited to write about an activity and share the story with APS members throughout NSW. Sarah Cains, newsletter editor for Southern Highlands Group, writes about a plant sale day and how to get the message out about Australian plants to a wider audience who are not always immediately responsive.

Here in the Southern Highlands we are right in the heart of traditional European-style gardening territory. The landscape of the district has essentially been changed to exclude Australian plants. Although there are some who include 'wild' areas in their gardens and the local Wingecarribee Council is beginning to take note of the essential need for natives in reserves, they are rarely seriously considered as garden plants. With this as the predominant mindset in the local area, APS Southern Highlands Group is finding that, by including a wide spectrum of plants in our conversation, we are more able to reach out to gardeners who are unfamiliar with natives. We need to convince all gardeners that these plants have a place in gardens.

Once in the ground, the plants do the work for us, seducing gardeners with their hardiness and ability to attract wildlife as well as their sheer beauty. By choosing to travel this road, we hope to begin to restore a balance and provide increased habitat, wildlife corridors and biodiversity across the district as well as celebrating the beauty and diversity of these marvellous plants that we in APS have discovered.

Huge swathes of land here are under the stewardship of gardeners. What an opportunity! Our ultimate goal is at least 20% natives in every garden. We are, after all, lovers of all plants, but with a particular mission for the wonderful plants of Australia.

An invitation to sell natives and get them out into local gardens is irresistible for Kris Gow, our Vice-President and super-woman plant propagator. When the opportunity



Erica Rink and Wendy Johnston did a great job selling plants on our APS stall.

arose to join the Plant Market Day at Berrima's National Trust property, Harper's Mansion, she worked up her plant collection and marshalled an impressive team of supporters.

Sunday 16 November was a wild, wet and windy day, but undaunted, we donned our best hats and pretty aprons and joined the garden crowd. It turned out to be a great day for selling Australian plants, talking to gardeners and enjoying the extensive, volunteer-run historic garden at Harper's.

Roses have had a wonderful season here in the Southern Highlands, and who can resist their charms? It was a delight to wander in the lovely garden enjoying the sights and fragrances. Wonderful though the roses were, my favourite exotic plant was the lusty *Gunnera manicata*, a huge member of the rhubarb family. At Harper's the gardeners have placed this water-loving big-fella in the site of an old well and it is thriving – a stunning focal point. But back to the natives! A good number of people sidled over to our borrowed tent to have a cautious peep at our array of treasures then finished up having a robust conversation about 'our' plants. Some who had not planted any natives before decided to give them a try. I would be fibbing if I pretended we



Lloyd Morrison and Kris Gow hang onto our tent to stop it blowing away!

did not come in for any lectures on the superiority of exotics, but in the main, we felt we held our own! Sales became brisk as the morning progressed and the buzz around our tables attracted others to the honey pot.

Kris's laminated photographs of natives growing in garden situations and her clear cultivation notes made it easy for newcomers to appreciate the qualities of the plants and helped them find courage to dip a toe in the water. Correas, eremophilas, daisy bushes and prostantheras came in for particular attention and increasing numbers of gardeners stowed our pots and tubes safely in their bags. Several people expressed interest in APS and we handed out a few membership forms.

A high spot of the morning came when a committee member from Harper's told us he was keen to see natives included in the garden there. He observed that it is more than likely that natives would have had a place in colonial gardens. With their beauty and hardiness, doubtless they would have appealed to quick-minded gardeners of earlier times.

By the time we loaded our gear onto Kris and husband Lloyd's ute at the end of the day we were \$500 richer with only half a tray of tubes left.

Many thanks to Kris, Lloyd and the many members who braved the blustery Southern Highlands weather and came to help make the day such a success.

Notice of a future activity

APS NSW 2015 AGM and gathering

Saturday 23 May 2015

The AGM and quarterly gathering is on Saturday 23 May. The APS East Hills Group will be hosting. The AGM and gathering will be at the Lugarno Uniting Church, Forest Road Lugarno. More details will be available in the April issue of *Native Plants for NSW* and on the APS NSW website www.austplants.com.au

This is an early warning so you can mark the date in your diary or organiser. Give some thought to how you might contribute to the running of the Society. There is always room on the Board for more willing contributors.

Val Williams Scholarship in Botany

A call for applications

Wendy Grimm, Secretary, North Shore Group

APS North Shore Group is seeking applications for Round Seven of the Val Williams Research Scholarship in Botany. Please share this information with any honours, masters or PhD students of Botany.

Our inaugural Val Williams Scholarship in Botany was awarded in 2009 and the scholarship is currently worth \$2,000. This modest amount can contribute towards the student's achievement of worthwhile research results. To qualify, the research must contribute to the knowledge, conservation or propagation of native plants in the Sydney or surrounding regions. In addition, the scholarship includes a complementary one-year APS NSW membership sponsored by APS NSW.

Our scholarship honours the memory of the late Valette Williams (1937-2004), an esteemed APS North Shore Group President, APS NSW President, Secretary of the Australian Flora Foundation and student of botany and conservation.

Our current scholarship holder (below) is Desi Quintans, an honours student at the Hawkesbury Institute for the Environment, University



of Western Sydney. He is investigating *Genetic contamination of the Moreton Bay Fig: does extensive planting threaten to swamp native populations?* Desi will report his results to the North Shore Group meeting on 13 March 2015.

Application forms have been distributed to universities in the Sydney region and to scientific staff from NPWS and the Royal Botanic Garden, Sydney. Application forms can be downloaded from our website at www.blandfordia.org.au/Scholarship.html and they contain full details of the scholarship conditions.

Applications by email close on 13 March 2015. Assessment and selection for the scholarship will be completed by the Award Committee and the result announced by 20 April 2015.

Inquiries: Wendy Grimm, Scholarship Convenor, APS North Shore Group

T (02) 9144 5600, email scholarship@blandfordia.org.au

Notice of a future activity

2015 Annual Get-together

4–5 July 2015 in the Blue Mountains

The APS Blue Mountains Group will be hosting the 2015 Annual Get-together for APS NSW over the weekend of 4-5 July 2015. Save the date now.

On Saturday 4 July, the Blue Mountains Group annual seminar will be the focus of activities at Lapstone Public School at the base of the Blue Mountains. Dinner on Saturday night will be at the Springwood Sports Club, a 20 minute drive from Lapstone.

On Sunday 5 July, activity options are likely to include an early morning bird walk in the lower mountains, bush walks in the upper mountains and a garden visit. There will of course be plant sales at the Glenbrook Native Plant Reserve.

More information on the Annual Get-together will be included in *Native Plants for NSW* in April and will be posted on the APS NSW website at www.austplants.com.au.

Wollemi Pine research – thesis abstract

Promoting conservation and future regeneration of Wollemi Pine through manipulation of microbial communities

Jessica Mowle is a PhD student at the University of Western Sydney and was a guest speaker at the November 2014 APS gathering at Windsor.

The iconic and endangered Wollemi Pine (*Wollemia nobilis*) is a monotypic species known from only one population of fewer than 100 trees. The population is situated within Wollemi National Park in the Greater Blue Mountains Heritage Area. The rare and endangered status of Wollemi Pine, in addition to an extensive fossil history indicates that Wollemi Pine is of great taxonomic significance. The small population size and low genetic variability of Wollemi Pine means that the population has a ubiquitous susceptibility to plant pathogens, particularly *Phytophthora cinnamomi*. In 2005, the deadly root-rot pathogen *Phytophthora cinnamomi* was found to have infected at least three trees at the site, with disease severity possibly linked to stress. Translocation was proposed as a conservation strategy to establish 'back-ups' to the wild population, but knowledge regarding the environmental and biotic requirements of Wollemi Pine planted in new environments is very limited. This knowledge is necessary to identify land that is appropriate for strategic conservation for targeted translocation. It is also essential to develop effective strategies for propagating stress-tolerant plant material, particularly with regard to drought, heat-stress, and pathogens. With many tree species, one of the most important limitations to their introduction or reintroduction is the presence of microbial partners. Wollemi Pine grows on shallow soils of poor nutrient status and high acidity; therefore, we expect Wollemi Pine to be highly dependent on mycorrhizal fungi and bacteria that contribute to nutrient cycling. This research will fill important knowledge gaps and lead to guidelines that enhance translocation outcomes, a critical next step identified by the Wollemi Pine Recovery Plan.



The Wollemi Pine Recovery Plan is on NSW Government website at www.environment.nsw.gov.au/resources/nature/RecoveryPlanWollemiPine.pdf

Information about the Wollemi Pine Translocation Project is at www.abc.net.au/news/2014-09-21/secret-bid-to-save-prehistoric-wollemi-pines/5758542

Rainforest Plants of Australia – Rockhampton to Victoria on USB

Information about plants comes in many forms. In this article, Gwen Harden of Coffs Harbour Group outlines the history of the rainforest guidebooks and their evolution into a portable computerised key on a USB flash drive.

How this project started ...

In the early 1970s demand for information about rainforests was increasing as forest protests and court cases stimulated great public interest. In response, a series of workshops on the identification of rainforest plants was organised by the University of New England Departments of Botany and Continuing Education. Schools were held along the coast in NSW and north to Gympie in Queensland. Through these schools, the need for a series of booklets arose as participants were keen to go home to their own patch of rainforest and identify the plants growing in them.

John Williams (Lecturer in Botany at the University of New England, Armidale) had been compiling a *Checklist of the Rainforest Flora of New South Wales* over many years and it was first published in May 1979. This was followed soon after by the 'Blue Book', *Rainforest Trees and Shrubs* (Williams & Harden) in July 1979. In 1980 the 'Green Book', *Rainforest Climbing Plants* (Williams & Harden) was published. These booklets were widely used and coverage was extended to include south-eastern Queensland (north to Gympie) in the 'Red Book', *Trees & Shrubs in Rainforests of New South Wales & Southern Queensland* (Williams, Harden & McDonald) published in 1984.

The Red and Green Books became basic references for identifying rainforest species in NSW and southern Queensland. Over 17,000



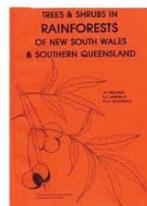
Checklist
1979



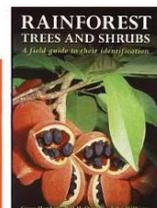
Blue Book
1979



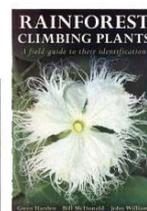
The Green Book
1980



The Red Book
1984



New Red Book
2006



New Green Book
2007

copies of the Red Book were printed by the late 1990s, but there was a need for both it and the Green Book to be updated.

In retirement the project continued ...

The second phase of the project commenced in 2001, after I had retired from the Royal Botanic Garden in Sydney and moved to Valla Beach on the mid-north coast of NSW. There were two parts: updating and expanding the rainforest books and a longer-term project to produce a digital key based on the books. The idea of a digital key came from a discussion with Terry Tame (retired school teacher) who agreed to input the material from the books into the database. After discussions with John Williams and Bill McDonald (Rainforest Ecologist at Brisbane Herbarium), we asked Hugh (photographer) and Nan Nicholson (botanist) to join the team and supply photographs of the plants. John's health was deteriorating from Parkinson's disease and although interested in our progress he was not able to contribute. Unfortunately, he didn't see the end results as he died just before the updated Red Book was published.

We wanted to continue John's vision 'to share knowledge and love of rainforests and rainforest plants with as many interested people as possible, in a language and format that could be understood and used by all'. To help make the books and the interactive key user-friendly, we have included explanations and illustrations of the terms used, and a section on the different types of rainforest. This electronic version also explains how to use this Lucid key so that it can readily be used by all, including those without a background in botany or experience with identification keys.

The new Red Book, *Rainforest Trees and Shrubs* (Harden, McDonald & Williams) was published in 2006, followed in 2007 by the updated Green Book, *Rainforest Climbing Plants* (Harden, McDonald & Williams). These new editions expanded the coverage from NSW and south-eastern Queensland to include Victoria and north to the Tropic of Capricorn at Rockhampton, as well as inland to the drier western vine thickets.

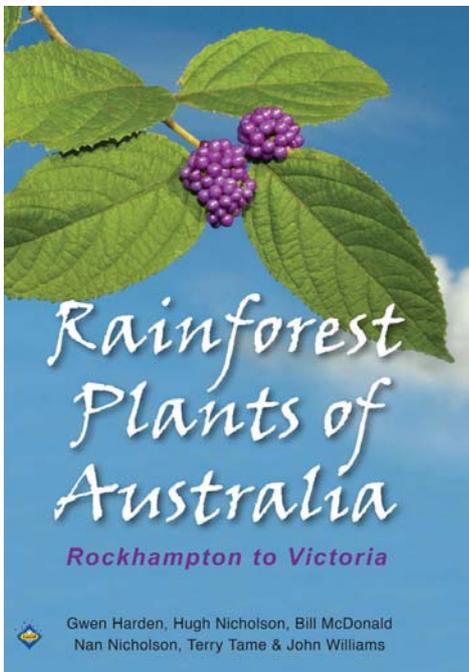
The production of the digital key consumed all of our lives from 2007 onwards. Until then Bill and I were primarily involved with updating the books while Terry Tame and Hugh and Nan Nicholson began gathering information and images for the key. Hugh and Nan travelled extensively, crisscrossing the area from Rockhampton to southern Victoria numerous times seeking all of the 1139 species in the field, and photographing those features that aid in their identification.

And it continued, on and on ...

We toiled on for years. Many times we thought that we were reaching the finish line, but then realised that some parts were not to our desired standard. So we laboured on, checking details again. The more information we gathered and the more we refined the descriptions for the fact sheets and the general introductory sections, the more checking we felt we needed to do!

One continuing problem was the need to include recent name changes. At times, like Germaine Greer in her recent book *White Beech*, we expressed frustration with 'bloody botanists' who kept changing plant names.

From paper to computer ...



The development of the electronic version of the rainforest guides has been a long process, including a number of changes to the software used to manage the data. Initially Terry Tame was our IT person, and he did all the original setting out and most of the entries in the database (scoring). In August 2012 Terry resigned from the project and I took over, with great assistance from Matt Taylor, Director of Identic Pty Ltd, developer of the Lucid software used in the final product. Not only did Matt patiently explain how Lucid works and what I needed to do to get the most from it, he also spent many hours adding to and checking formatting and function of the key.

It is finished ...

After 13 years *Rainforest Plants of Australia – Rockhampton to Victoria*, by Harden, G, Nicholson, H, McDonald, B, Nicholson, N, Tame, T & Williams, J (2014) is now available on USB flash drive. This interactive key and information system includes 1139 species and over 12 000 images, most taken by Hugh Nicholson.

The key has 160 features and about 1000 states (sub-divisions of features that are scored) (not including families). Features are based on the habit of the plant, bark (for larger trees), leaves, flowers and fruit, and

geographic distribution. To assist with understanding and interpreting the features each has a linked screen outlining the relevant individual states. These screens are illustrated with line drawings or photographs and are linked to fact sheets of species that display that particular character.

The advantage of an interactive key, as opposed to a key in a book where you MUST start from the beginning, is that the key can be commenced using whatever material you have (whether leaves, flowers or fruit) and with whatever features you are comfortable with using.

As well as the key to the individual species there are introductory sections that explain how to use the key and the topics covered in each fact sheet. There are also headings to the index (separated into scientific and common names), glossary, references, rainforest types, list of features used in the key and hints on identifying rainforest plants. Rainforest types are described with diagrams of structure, map of distribution and images from different localities. These sections can be accessed through the front page (below).



Each fact sheet includes the scientific name of the plant, common names, family, whether it is rare or threatened or an introduced species, a description of diagnostic features and line drawings and a varying number of images.

The USB flash drive is key-shaped on a green lanyard, in a DVD packet, so that it will not be lost on one's desk!

And the future ...

The key will be modified into applications for smart phones and tablets, available through the Google Play Store and the Apple App Store in 2015.

We will continue running community workshops and encouraging people to play with the Lucid program. The Lucid key is a complex and very powerful program, but it is not necessary to understand or use all the functions to identify plants successfully.

This whole process has been a great learning curve for us all. The challenges have been enormous, especially as each of us has been working separately, without any immediate backup. At times the tyranny of distance has had its advantages when, for various reasons, we were not all working to the same time sheet!

Rainforest Plants of Australia – Rockhampton to Victoria, the USB is available from the Gwen Harden Publishing website, www.rainforests.net.au. The RRP is \$100, but it is offered at a special web price of \$80 (posted).



Cover images

***Chorizema cordatum* (Heart-leaf Flame Pea)** by Ralph Cartwright

An autumn flowering plant, *Chorizema cordatum* is a Western Australian native, but it seems to grow well in Sydney. This specimen is growing in a large pot on my deck in southern Sydney. I was practising with my new camera in early May 2014.

***Hoya australis* (Native Hoya or Common Waxflower)** by Ralph Cartwright

The photo of *Hoya australis*, taken in my front yard. It flowers each year in late April and early May. It smells wonderful.

[Thanks to Ralph who responded to my requests for cover images. More good photos of wonderful Australian plants and gardens are always welcome - Ed]

New members January 2015

Merle Thompson, Membership Officer

The Australian Plants Society NSW warmly welcomes the following 46 new members (36 memberships) and wishes each of you a long, rewarding and enjoyable association with the Society.



Trisha Arbib	Bundanoon
Chad Beranek	GyMEA Bay
Frennie Beytagh	Cremorne
Eric Broome	Kempsey
Stephen Brown	St Ives
Marilyn Cross	Kenthurst
Clodagh Crowe & Nick Morris	North Turrumurra
Gordon Deans	New Lambton Heights
Suzy Dowsett	Bundanoon
Kelly Glass	Pulletop
Yvonne & Tammy Hawkins	Sans Souci
Brendan Howard	Parkes
Catherine Humphries	Falconbridge
Bryan Johnston	Armidale
Rob Kerle & Karen Kirton	Carlingford
Rodger Laurent	Roseville
Angelo Leo	Denistone
Sue & Russell Lewis	Springwood
Joe Magri	Glenbrook
Nicole Maher	Wagga Wagga
Judy & Tom McMahon	Como
Doug & Margaret Meredith	Umina Beach
Alison & Angus Moore	Emerald Beach
Ruth Orchison	Epping
Yvonne Pacey	Shortland
Keith Sanger	Moss Vale
Helen Smith & Graham Milledge	Mount Colah

Andrew & Paula Tighe
Pamela Anne Tippett
Pip Tonkin
Gabrielle Weiss
Helen Wright

Tamworth
Bundanoon
Ebenezer
Bomaderry
Padstow

We welcome back the following former members

Shirley Henderson
Lesley Hook
Bernie & Therese Kocur
Marilyn McGregor

Thirlmere
Camden
Cobargo
Moore Creek

Vale

It is with sadness that we learnt of the death of **Maurice Haenke**, an active, long-term member of the Sutherland Group. The Board extends condolences to his family and friends.

Direct Deposit Payment Option

Members are reminded that renewals may be made by direct deposit either at a bank or via the internet. Direct deposit reduces the costs for APS compared to paying by credit card. Bank details are as follows:

Commonwealth Bank of Australia (CBA)

Account Name: Australian Plants Society NSW Ltd

BSB: 062 217

Account No: 0090 7163

Please note that you must include your membership number and surname as a reference when paying by direct deposit. It is essential that we can identify the depositor. Your membership number is the six-digit number on your membership card and is also printed above your name on your journal mailing envelope.

Note also that the Direct Deposit Payment option is now included on the membership application and renewal form which is in the centre pages of all copies of *Native Plants for NSW*. This form has been updated to help streamline its use and to include the new prices effective from 1 January 2015.

Study Groups notes

Rhonda Daniels, Study Group Liaison Officer

I've enjoyed reading the news and activities in the newsletters from each Study Group in recent years, but now it's time to hand over the role of Study Group Liaison Officer to Wendy Grimm from APS North Shore Group. Thanks Wendy and thanks to everyone who supports our Study Groups which play such an important role in gathering and sharing information about Australian plants. Simple observations in your garden or local bushland about flowering times, pollinators, or response to weather or soil conditions all help build up our collective knowledge.



Garden Design Study Group (November 2014, No. 88)

An article by Chris Larkin on groundcovers focuses on their practical purpose in the garden and their role in good garden design. Groundcovers can help achieve a balance between mass and void (see Kath Gadd's article on page 12 of this issue) and between light and shade. Groundcovers also contribute to focal points and framing as they allow you to see more of the garden from any vantage point. Groundcovers allow you to see into garden beds to the detail of plants, and maybe even further to more distant views.

Diana Snape reports on a vertical garden in Melbourne, 4 m by 3 m and facing west, which is designed solely with a wide selection of Australian plants including baueras, baeckeas, low correas, *Acacia cognata* 'Dazzler', *Rhododendron lochiaie*, ferns, *Lomandra* 'Tanika', brachyscomes, scaevolae and violets, and some surprisingly large plants such as *Leptospermum* 'Pink Cascade', *Acacia acinacea* and *Grevillea endlicheriana*. Over time, some species grew better than others and there has been a gradual replacement of some species.

The Study Group has made a donation to support the Wildlife Art Museum of Australia in Stawell, Victoria which is being developed in collaboration with the Royal Botanic Garden Cranbourne. Learn more about the project at www.wama.net.au

A Sydney member of the Study Group is keen to learn if there is an active Sydney chapter of the group. Please make yourself known if you are interested in garden design activities in Sydney. In the meantime, enjoy the 32 page newsletter which is lavishly illustrated with photos.

Grevillea Study Group (September 2014, No. 99)

Grevilleas are popular garden plants with many old and new cultivars. This issue has a story about the new *Grevillea* 'Dorothy Gordon', which appeared naturally at Myall Park Botanic Garden in southern Queensland in 2006. Its existence had to be maintained as secret knowledge through eight years of processes required for registering and launching a new hybrid. Look out for the pale pink flowers spikes with contrasting burgundy centres.

There's always much to learn from the origin of plant names. *Grevillea petrophiloides*, known as "Big Bird" and "Pink Pokers", grows naturally in Western Australia where the flower stalks can be up to 5 m tall. The name refers to the resemblance of its leaves to those of plants in the genus *Petrophile* and not to a love of rocks.

Hakea Study Group (October 2014, No. 56)

This issue has observations on pollination of hakeas, aided by close-up photography of a *Catocheilus* wasp on *Hakea platysperma*. It is important to remember that not every insect or bird that visits a plant is necessarily a pollinator.

Grappling with weather conditions is always a popular topic. A member reports winds of up to 160km/h across their coastal garden in southern NSW. Some hakeas were blown out of the ground and the owners have installed steel stakes to hold the plants in position.

Waratah and Flannel Flower Study Group (August 2014, No. 7)

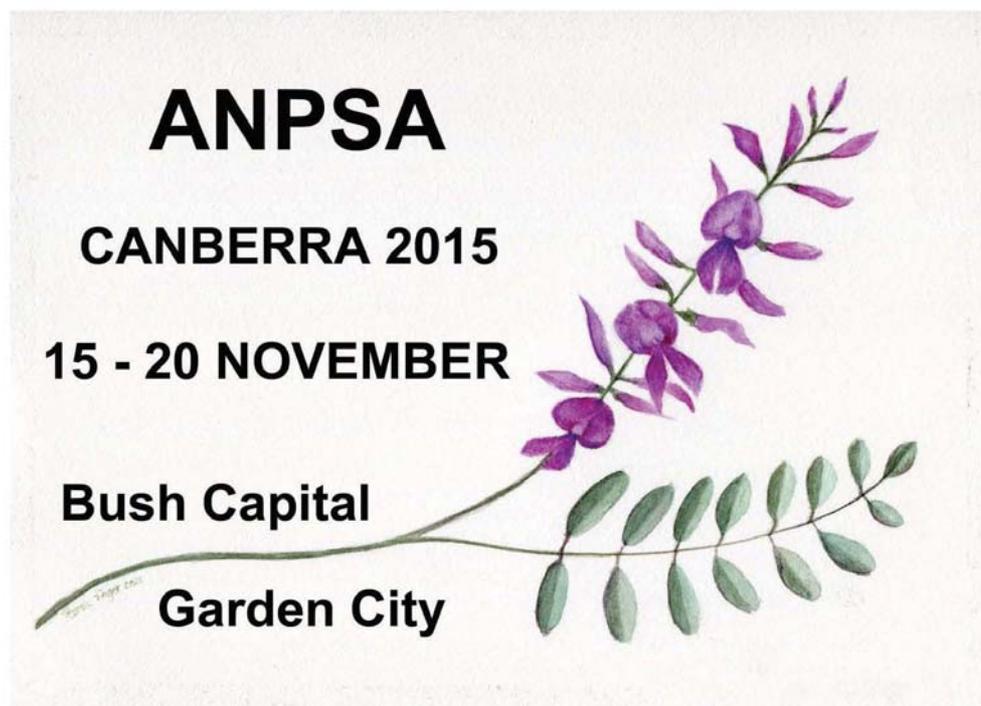
There's more information about scale on waratahs in this issue. The advice is that the best time to try to get scale under control is immediately after pruning when most scale has been taken out. Oils such as Eco Oil are used to smother the scale. At least three sprays are needed approximately two weeks apart to gain some control over the scale. Regular and frequent inspections of plants for scale need to be made throughout the year, and if necessary, the treatment repeated.

Did you know there is one species of *Actinotus* endemic to New Zealand?

Acacia Study Group (September 2014, No. 126)

Most of us won't get to see an Order of Australia medal, but the medal features a wattle blossom. The actual medal, designed by Stuart Devlin AO CMG in 1976, does not have a border but is just the unadorned blossom surmounted by a crown and with our coat of arms in the centre.

Study Group members are able to access seed from the Study Group's very extensive collection of over 500 *Acacia* species.



**Australian Native Plants Society (Australia)
Biennial Conference 2015
Australian Institute of Sport Canberra, Bruce ACT**

Keynote speakers

Angus Stewart – Swaby Lecture

Ian Fraser – Conference Dinner

David Headon

Penny Olsen

David Lindenmayer

Field trips

NSW South Coast – pre-conference

*Sub-alpine areas in Perisher Valley, Kosciusko National Park –
post conference*

Brindabella Range – optional extra

Australian National Botanic Gardens

National Arboretum

Local nature parks

Private gardens



Program

Saturday, 14 November

Excursion to Brindabella Range – optional

Sunday, 15 November

ANPSA Delegates meeting

Free bus service to National Museum, National Portrait Gallery, National Gallery, War Memorial

Monday, 16 November

Morning presentations; afternoon excursions

Tuesday, 17 November

Morning presentations; afternoon excursions

Wednesday, 18 November

Morning presentations; afternoon excursions

7.30 pm Awards and Swaby Lecture

Thursday, 19 November

Morning presentations; afternoon excursions

7.00 pm Conference dinner

Friday, 20 November

Morning excursions; afternoon presentation

Saturday, 21 November

Excursion to Brindabella Range—optional

For more information and expressions of interest:

Email: conference2015@anpsa.org.au

Website: <http://conference2015.anpsa.org.au>

Post: ANPSA Conference 2015

P.O. Box 187

Deakin West, ACT 2600

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 Plants as Bonsai

(\$14/\$20/\$14)
Leader: Roger Hnatiuk
PO Box 450, Jamison Post Office
Macquarie ACT 2614
☎ (02) 6251 2228
Email: rjhnatiuk@yahoo.com.au

Banksia (\$10/\$20/\$7)

Leader: Cas Liber
PO Box 83, St Pauls NSW 2031
☎ (02) 9559 2656
Email: casliber@ozemail.com.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)

Leader: Cherree Densley
9 Koroit-Port Fairy Rd
Killarney VIC 3283
☎ (03) 5568 7226
Email: correastudygroup@gmail.com

Admin & Editor: Russell Dahms
13 Everest Ave
Athelstone SA 5076
☎ (03) 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

Epacris (\$5/\$10/\$5)

Leader: Gwen Elliot
81/72 Kangan Drive,
Berwick VIC 3806
☎ (03) 8774 2483
Email: gwenelliot@optusnet.com.au

Eremophila (\$5)

Leader: Colin Jennings
4 Kinnaird Cres
Highbury SA 5089
☎ (08) 8264 6490
Email: cje97694@bigpond.net.au

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

Leader: Warwick Varley
PO Box 456, Wollongong NSW 2520
☎ (02) 4284 5282
Email: tallowwood@hotmail.com
Admin: Sue Guymmer
13 Conos Court
Donvale Vic 3111
Email: aitchguy@gmail.com

Fern (\$5)

Leader: Peter Bostock
PO Box 402
Kenmore QLD 4069
☎ (07) 3202 6983
Email: pbostock@ozemail.com.au

Treasurer: Dan Johnston
9 Ryhope Street
Buderim QLD 4556
Email: dan.b.johnston@bigpond.com

Garden Design (\$15/\$20/\$6)
Leader: Ben Walcott
10 Wickham Cres
Red Hill ACT 2603
☎ (02) 6161 2742
Email: bwalcott@netspeed.com.au

Grevillea (\$10/\$10/\$5)
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: brucemoffatt@tpg.com.au
☎ (02) 9579 4093

Hakea (\$10)
Leader: Paul Kennedy
41 Stodart Street
Colac VIC 3250
☎ (03) 5321 5569
Email: hakeaholic@gmail.com

Hibiscus and Allied Genera
(\$10/\$20/\$5)
Leader has recently passed away
Contact ANPSA Study Groups
PO Box 191
Lawnton QLD 4501
Email: jansked@bigpond.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
16 Hitchcock Lane
Armidale 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 Study Group Liaison Officer, Wendy Grimm at wagrimm@tpg.com.au

Australian food plants
Australian plants for containers
Calytrix
Daisy, the Australian Fabaceae
Isopogon and Petrophile
Orchids, Indigenous
Palm and Cycad
Prostanthera and Westringia
Rainforest
Rhamnaceae
Succulents, Native
Verticordia
Wetlands (and Water Plants)
Wildlife and Native Plants

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.

⊗ **Forests NSW Nurseries**
10% discount on all potted lines. West Pennant Hills, Narrandera and Dubbo.
For locality details
☎ 1800 000 123
www.forestrycorporation.com.au/business/nurseries

⊗ **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 Coxs 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.muswellbrookforestnursery.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

⊗ **Leearne 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 5026, Old Toongabbie NSW 2146

Office: Shop 1, 33 Emma Crescent, Wentworthville

Office hours: Wednesday 9 am to 3 pm

Phone: (02) 9631 4085

Administration Officer: Joanna Moggridge

Financial Officer: Sharlene Cormack

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

APS NSW Office-bearers

President	vacant
Vice Presidents	Mark Abell and Graeme Ingall
Honorary Secretary	John Aitken
Treasurer	vacant
Membership Officer	Merle Thompson
Company Co-ordinator	Alix Goodwin
Editors <i>Australian Plants</i>	John Aitken and Merle Thompson
Editor <i>Native Plants for NSW</i>	David Crawford
Publicity Officer	vacant
Program Officer	Tony Maxwell
Property Officer	Roger Starling
Conservation Officer	Dan Clarke
Study Group Liaison Officer	Wendy Grimm
Seed bank curator	John Randall
Website managers	Mark Abell and James Ward

APS NSW Board members at 1 June 2014

Mark Abell, Rhonda Daniels, Carolyn Gillard, Alix Goodwin, Mary Hedges, Graeme Ingall, Harry Loots, Tony Maxwell, Merle Thompson, Roger Starling and James Ward

APS NSW Representatives to external bodies

ANPSA Council	Mark Abell and Rhonda Daniels
Australian Cultivar Registration Authority	David Murray
Australian Flora Foundation	Ross Smyth-Kirk
Burrendong Arboretum	vacant
Native Flower Growers and Promoters	Jonathan Steeds
Nature Conservation Council	Margery Street
Open Garden Scheme	vacant
External Book Service	Florilegium, The Garden Bookstore



**AUSTRALIAN
PLANTS SOCIETY**

www.austplants.com.au