

FRIENDS OF THE WAITE ARBORETUM INC.

NEWSLETTER 113 SPRING 2022

FORTHCOMING EVENTS

Volunteers FWA, FUH, FWCR XMAS gathering Monday Dec.12 5-7 pm Urrbrae House

Free Guided Arboretum Walks

The first Sunday of every month at 11 am. Meet on lawns Urrbrae House. Please observe all SA Official Covid-19 directives when visiting the Arboretum. Covid-19.sa.gov.au

No tours in January



Waite Arboretum App





Patron: Sophie Thomson

President: Dr Wayne Harvey, **Vice-President**: Terry Langham **Secretary**: Johanna Crosby, **Treasurer**: Ramute Stankevicius

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Ex-officio Waite Arboretum Staff: Dr Kate Delaporte and Erica Boyle

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One of the few roses planted by Peter Waite (1834-1922) that still remains in the garden. An old Tea-Noisette rose hybridized in France by Joseph Schwartz in 1879. This rose received an award in 1993 and was entered into the Old Rose Hall of Fame by the World Federation of Rose Societies.

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2022 Winter Arboretum report Dr Kate Delaporte

Fluorescent	From twisted dead	Spring: eucalypt
green leaves	sticks	hakea acacia
Peep from their	Buds form along	grevillea bloom
covering –	the branch	Sictilica bioom
Spring springs all	Life resurrecting	
around		
Bipasha Dutt	Jason A Muckley	Kate L Delaporte

Well. Spring has a been a bit shy this year. I think it's finally here?

I have this minute returned from the Arboretum where I was observing the moving of nine smallish specimens for the Dry Rainforest relocation. This will be the second to final step in the recreation of the Dry Rainforest to the west of the Watercourse. The final step will be finishing the irrigation system and mulching. Hopefully the new area, with its high canopy for shade and being located downslope from the watercourse and temporary irrigation system, will prove a successful new area and the plants will thrive.

I'm not entirely sure what happened to the last three months. Marking continued well into August. Then Erica took her long visit to Argentina and her family. I ventured forth into the Riverland with the first year Ag Science Students and looked at a lot of citrus. I kept up with things as the rain kept up. One highlight was attending the 7th Global Botanic Gardens Congress in Melbourne with 500 or so other plant enthusiasts! Erica and I will report on that later.

Winter maintenance continued, planting continued. The rain came, went, came, went. Lots of things have flowered. The strong winds and wet soil have resulted in a few losses of branches and trees.

We have commenced the Elm Leaf Beetle Treatment, or will commence it this week, once the trees begin to show good leaf development.

In other news: TREES, again! As mentioned last newsletter, we received seed funding from the University's Environment Institute to collate data on urban street trees to review performance to inform near-future trials of new species. We now have a growing data base of over 630,000 trees from Greater Adelaide. We will review the data to work out which trees are doing well across different microclimates, and which ones have minimal inputs and impacts. In addition to the support from Environment Institute, we are in discussion with stakeholders in the commercial world to ensure we are finding out what really needs to be found out, to support the very best future urban forest that we can.

This is a short piece this time – the Congress is worth a few words. Let's hope Sprummer continues mild and rainy and a little bit warmer....

7th Global Botanic Gardens Congress in Melbourne. Erica Boyle

Awarded with the UoA Professional Staff Development Scholarship 2022 I was thrilled to have the opportunity to attend the 7 Global Botanic Garden Congress held at Melbourne from the 26 to the 29 of September at no cost. I am very grateful to the University and to Kate for this. With a significant number of international delegates from more than 25 different countries, I am proud to have represented our Arboretum and University with our Bee, Butterfly & Bird Project displayed in an informative poster (photo page 4).

Some of the highlights were the 'Botany Bootcamp – Combating Plant Blindness' workshop run by two dynamic and passionate ladies who guided us -a group of around 15 people- through the Royal Botanic Gardens Victoria's Southern Africa Collection, Fern Gully and Sensory Garden. At every stop they delivered an intensive mini botany class where we learnt through magnifying glass lenses about the different parts of the flowers, the bright, hidden oil glands of some species and the shiny and hairy leaves of some others. It was somehow a botany class sprinkled with a touch of drama and a bit humour, very engaging. I have long been passionate about having a folding magnifying glass lens always at hand: in a matter of seconds you can be submerged in an immense different world through it. Best Christmas present for a child!

Another engaging workshop activity was 'Gamifying a Botanic Garden Collection for Educational Programs'. Gamification is the process of including game-like elements in a non-game environment or activity, encouraging experimentation and curiosity to increase student engagement and motivation.

We weren't really the youngest students, but we had a great time trying to creatively combine 'concepts' with 'game mechanics'. So, for example, Joseph Banks ended up involved in a card fighting game similar to Pokémon! Or a super warrior hero whose power levels were based on different plant adaptation features! It was good fun.

Reflecting on the theme of the Congress 'Influence and Action', I just want to end by saying that each of us can be an agent of change! Just the simple Christmas gift I mentioned above can be a small action with a big impact on a child's life, a connection to the smallest and most beautiful aspects of the natural world that can last forever. Let's do our best!





Report from the President FWA Dr Wayne Harvey Spring 2022

One of the more important aims of the Friends is to raise funds for the development and promotion of the Waite Arboretum. The Friends has been able to pass funds collected through membership fees and donations to the University for designated activities in, and for the promotion of, the Arboretum.

The Arboretum App has been reworked to provide more accurate information about the collection. This latest version has additional themed walks, increased content and specimen details which now include height and area of shade. The App can be downloaded onto smart devices at no charge. It gives information on the 2,300 trees in the arboretum and includes an interactive map, allowing visitors to find particular specimens while in the arboretum.

The new version of the App retains the familiar features, including the themed walks "Out of Africa", "Trees of the Mediterranean", and "Trees of California". These three self-guided walks take the visitor to trees found in other parts of the world that have a climate similar to that of Adelaide. The other self-guided walks included in the App will take the visitor to a series of particularly aromatic trees and to almost 20 specimens regarded as being used by this country's first inhabitants for food and for medicines.

The existing brochure describing the Arboretum has been in need of revision for some time, to ensure visitors have current and reliable information. The Management Committee agreed to invest a small amount in the redesigning the brochure, combining some external expertise with our own resources. The result is an improved brochure that should be available for distribution for events and groups by the time this Newsletter is with you.

Students continue to conduct investigations into the Arboretum flora and fauna, including research into how the collection can provide insight into the response by the habitat to our changing climate. Monitoring of beneficial and damaging insects also continues. Each year the grand avenue of elms shows the effects of infestation by the elm leaf beetle. This year the effect of this beetle on the health of the avenue and the impact of control measures used will be recorded.

Finally, a reminder that memberships are due for renewal. You will note the Management Committee has set a modest increase in the annual fee. This is to offset some increase in the costs of maintaining the website, producing and distributing this Newsletter and to increase the amount we can pass to the University to assist with its costs in maintaining and developing the Arboretum. Some of the current priorities have been identified in the preceding paragraphs.

The Management Committee have also introduced a membership classification for students as a way of increasing the engagement of university and TAFE students in the work of the Friends.

I encourage all members to renew as soon as possible to ensure the Friends Newsletter and other notices of events are received.

7th Global Botanic Gardens Congress in Melbourne Influence and Action Botanic Gardens as Agents of Change Kate Delaporte

7th Global Botanic Gardens Congress was held in Melbourne from Sunday 25th to Thursday 29th September. Influence and Action: Botanic Gardens as Agents of Change explored how botanic gardens can play a greater role in shaping our future. With accelerated loss of biodiversity across the globe, increased urbanisation, population growth and climate change, our need to work together to find new solutions for the future has never been greater.

Erica and I attended and presented a poster on the Bee, Butterfly and Bird Garden.

I took the opportunity to join a tour to the Royal Botanic Gardens Cranbourne; this has been on my bucket list for a long time, but try getting there with kids and non-gardening partners.... It did not disappoint! In fact, it was quite amazing and inspiring.

We were welcomed by Chris Russell, Executive Director of RBGC, followed by John Arnott who introduced us to the program and our guides for the day.



John Arnott welcomes us and provides background to the Gardens.

My group first went to the new and impressive horticultural nursery facilities at Cranbourne. The gardens has a special program to conserve native orchids and we were delighted to see not one, not two but THREE poly houses full of beautiful flowering native orchids from across southern Australia. The Gardens are working hard to promote native indigenous plants for Victorian gardens as opposed to plants from other states of Australia and exotic species. Lots of great work on propagation. We were then taken on a brisk walk to the highest sand hill in the 360ha site surrounding the curated gardens, which consists of remnant bushland, rapidly being surrounded by housing developments. Over the strident and happy calls of the pardalotes, we spent some time discussing the good, bad and ugly of conservation and humans. We returned to the visitors centre for lunch and regrouped for a tour of the Gardens themselves. I met some very interesting staff who share a passion for eucalypts. I was particularly interested in the interpretive signage; each sign had a strong focus on the story behind the plant species, in particular their Eucalypt walk and all the great information they provided. The Gardens themselves are extensive and, with a group of mega plant nerds, it did take us a long time to get anywhere, so I have a determination to return with a whole day to enjoy.





7th Global Botanic Gardens Congress in Melbourne. Kate Delaporte





Sign 1 The Whole site. Sign 2 The Eucalypt Walk glass panels. Sign 3 The Eucalypt Walk stacked blocks



Constructed creek, dry creek and red sand garden.

The Congress was held on 27-28-29 September and was jam packed with interesting, informative and inspiring presentations and workshops. We are united in knowing that trees (and plants in general) are under threat from human destruction and climate change, and that botanic gardens and arboreta have an important role in the conservation and protection of plants across the world. We are also united in knowing that we have an equally important role in the education and inspiration of people from all walks of life, to realise what we have and how important nature is to us.

Of most interest to me - A range of tools have been developed to enable assessment and understanding of the impacts of climate change on tree/plant collections; Why do trees die in hot weather?; Indigenous perspectives on country about country; Engaging community and visitors, so lets chose some hero species to connect and narrate content, eg "Draco the Dragon Tree and his tribe" and create interactive signage that kids can engage with; Resilience vs adaptation and fear of loss vs hope for gain; and finally, the Arboretum needs to properly join the Botanic Gardens Conservation International to put our place in the Global plant community.

I returned home with thoughts leaking out of my ears, but determined to grow our Arboretum and achieve greater things in a regenerative and sustainable way for the greater good of all creatures on Earth!











Let's bring the Golden Pea Bee to the Arboretum! By Erica Boyle

Following Dr. Katja Hogendoorn's article about bringing the Golden Pea Bee to the burbs in the last newsletter edition I would like to share the good news of two new projects in the Mallee section.

Thanks to Dr. Hogendoorn who kindly donated a tray full of seedlings—the ones this particular bee likes the most-*Daviesia leptophylla*, *Daviesia ulicifolia* and *Indigofera australis* and to our volunteer Janis who is helping in the development of the gardens, the arboretum has now two GBP-magnet gardens!

One of the beds is located very close to the Native Bee Hotel, so this newcomer can be spoiled not just with great food, but also with excellent accommodation facilities! The second bed is located next to Gate 28 on Claremont Avenue, so GP bees are welcomed to the arboretum through the main door! The seedlings are still very small, but some are already in bloom (photo).

Daviersia ulicifolia grows between 1 and 2 m tall, blooms in winter and spring and grows very fast. It features narrow, rigid, sharppointed leaves and the pea-like flowers grouped where the leaves join the stem, are yellow-orange (sometimes pinkish) with a distinctive dark centre making it stand out from a distance.

Our arboretum volunteer Janis will take care of these collections and we will be attentive and waiting for our soon new friend *Trichocolletes venustus*!

Daviesia named after botanist Rev H. Davies; *ulicifolia* refers to the gorse-like foliage (*Ulex*).



Daviesia ulicifolia (Gorse Bitter-pea) beautiful flowers.



GBP garden next to Native Bee Hotel - in process

Irises growing in the gardens. Erica Boyle

This wide-ranging genus of more than 300 species native to the temperate regions of the northern hemisphere, is named for the Greek goddess of the rainbow and is valued for its beautiful and distinctive flowers. Iris is the largest genus of the family *Iridaceae*.











Friends of the Waite Arboretum



Thank you for your support of the beautiful Waite Arboretum. Reminder notice for FWA membership renewal for 2022/23

**** For all FWA Wittunga Botanic Gardens Tour March 2023

Guided tour for all FWA Date and time will be posted

Arboretum guides in action! By Erica Boyle

Our dedicated team of guides have the noble mission of enriching visitors with the delights of our arboretum and in turn assist in the FWA's fundraising program. Being the one in charge of organizing the tours, I am always happy to receive the praise from the visitors after each tour. Don't miss out the opportunity to come with your friends for a great walk in the Arboretum with our experienced guides, for more info send me an email to arboretum@adelaide.edu.au



Arboretum guides Jennifer, Henry and Terry welcoming a large group of visitors from the Blumberg Garden Club.













XMAS Ideas

- Shirts, s/m/l. \$30
- Hats, broad brimmed, peaked \$25
- Apron \$25
- Dracaena seedlings \$50
- Tote bags, green or tan (30 x 40 cm) \$25
- Contact our Secretary at crosby jo@yahoo.com.au or
- friendswaitearboretum@gmail.com to order any of these items.



Neutrog donates fertilisers for the Urrbrae House Gardens and the Waite Arboretum native plants.



What is growing in the Arboretum. Acacia cyperophylla.



Sam JACOBS 1920 – 11 October 2011 By Terry Langham

Seat of the Season.



Nearby tree species: *Corymbia variegata* MYRTACEAE, NSW QLD. 1949 Seat located in Southern area of Bee, Butterfly and Bird Garden.

In the Summer edition of the FWA newsletter, 2012, Dr Jennifer Gardner wrote;

"In October 2011 we noted the death of The Honourable Samuel Jacobs AO, QC, University of Adelaide – Chief Justice of South Australia, highly esteemed Deputy Chancellor and member of the University of Adelaide Council and Inaugural Patron of the Friends of the Waite Arboretum.

Sams Jacob's high stature within the University and his staunch defence of Peter Waite's bequest were invaluable in 2000 when part of the Arboretum was under threat of alienation for a building site.

Donations in his memory to both the FWA and the Friends of the Waite Conservation Reserve were gratefully received". (Gardner).

Gardner, J. 2012, Friends of the Waite Arboretum Inc. Newsletter No. 70 Summer p.2

Acacia cyperophylla Red mulga, Creekline miniritchie, . FABACEAE SA WA NT QLD 1995. The limited occurrence in SA comprises the southerly limits of a far wider occurrence in NSW, QLD and NT. The botanical name refers to the resemblance of its foliage to a sedge, *Cyperus* sp. The phyllodes are long and thin, 8-20cm, and round in cross section. Flowers appear after heavy rains which may be many years apart. The bark peels off in curling flakes. The old bark can have sharp edges and should be handled carefully. The heartwood timber is dark brown and durable. The second variety, *A. cyperophylla* var. *omearana* is known from only a few populations near Port Hedland, all of which are under threat.



Spring in the Arboretum



Pelargonium austral Native Stork's-bill GERANIACEAE. *Pelargonium* is derived from the Greek word for stork, as the seed capsule is said to resemble a stork's bill. Note the soft pink hairs on the stems. Bee Butterfly and Bird garden.





Dianella longifolia. Flax lilies LILIACEAE. Three species occur in the Adelaide bushland. All species develop a dense clump of vertical strap-like leaves with a prominent vertical vein. Masses of small five-petalled blue flowers develop on long stalks in Spring. *D.revoluta* and *D. brevicaulis* have flowers with black anthers, while on *D. longifolia* (pictured) the anthers are yellow. The purple berries are edible on *D. longifolia*. *D. longifolia* is a foothill species while *D. brevicaulis* grows near the coast. *D. revoluta* is the most common species on the Adelaide Plains.

There are 5 varieties of *D. longifolia.* var. *grandis* is believed to have medicinal properties. The leaf fibres of *D. longifolia* are strong and silky and were used by indigenous people for baskets and cord.



Lasiopetalum discolor Coast velvet-bush MALVACEAE. Endemic to coastal areas of Sth Aust. An erect spreading shrub with hairy stems, oblong leaves and pink/white flowers. BB & B garden.



Hakea prostrata Harsh hakea PROTEACEAE WA 1995. The stem clasping leaves have prickly edges and the flowerss are sweetly scented.



Acacia pycnantha Golden Wattle FABACEAE Native to SE Aust. Grows to 8m and has profuse, fragrant golden flowers.