



## NEWSLETTER

Issue 50

March 2021

Welcome to 2021 and hope you very much enjoy this bumper edition of the Newsletter! Many of us have been very busy over Summer! The Friends are planning a fund raising dinner so watch the Latest News page on our website for more information .... And we have a new feature this edition- a Book review section from Mel at The Curatoreum.

The photo below marks the signing of the Memorandum of Understanding between the Friends and the NAC at the December 2020 End of Year celebration to support the

commencement of a new Gazebo program. The Gazebos will enhance the amenity of the Arboretum for our visitors by providing shade and shelter, as well as providing an important opportunity to expand corporate sponsorship.

The ACT Chief Minister Andrew Barr also attended our End of Year celebration, along with many of you



The Jake Keller Scholarship was announced on the evening and presented by Chair Trish Keller. Huge congratulations to the recipient, Matthew Hartley!





Hearty congratulations also to Ange McNeilly the Friends of the National Arboretum of Canberra Volunteer of the Year for 2020!

Ange was presented with this Recognition Award at the End-of-Year celebration event. Ange worked throughout the smoke, storms, wind, cold

winter days and throughout COVID lockdown keeping the Harvest Garden ready for the next season and culminating in two very successful Harvest Stalls later in the year.



## Contents

Contents.....	2
Which Arboretum tree is linked to a COVID-19 vaccine?.....	3
Chair's Report .....	4
February 2021 Tree Dedication.....	7
Chat with Cally .....	7
Discovery Kitchen Garden Update.....	8
Say 'Hello' to our new Forest 15: <i>Xanthorrhoea glauca</i> or grass tree .....	10
Wollemi Pines Update January 2021 .....	12
Another look at the female Parana Pine Cone.....	13
Keeping in STEP .....	14
Fungi for all .....	15
A Himalayan Cedar story from the National Bonsai and Penjing Collection of Australia (NBPCA). .....	17

## Which Arboretum tree is linked to a COVID-19 vaccine?

Thanks to Jan Morgan, Joanne Maples and Malise Arnstein for providing ideas/information and photos (external to the NAC) for this article.

In 2020, our world seemed to turn upside down with the arrival of COVID-19 and the rapid spread of the pandemic across the globe. A race around the world also began for an effective vaccine to help stop the virus, and limit its effects on our way of life.

There are many vaccines under development (over 200), and in Australia, we have just seen the first rollout of a vaccine. Throughout 2020, the federal Government entered into four agreements to purchase different types of vaccines to ensure that all of us can access a vaccination against the disease over the course of this year. Before any vaccines are made available for use in Australia, they must pass the Therapeutic Goods Administration (TGA) rigorous assessment and approval processes, including assessment of safety, quality and effectiveness.

There are different types of vaccines, some of the common types include: Messenger RNA (mRNA), Protein based or Vector vaccines. For more information on how the COVID-19 vaccines work, go to:

<https://www.health.gov.au/node/18777/australias-vaccine-agreements>

The first vaccine approved and now being used in Australia is the Pfizer/BioNTech vaccine (mRNA vaccine), and it is being followed up with the Oxford or AstraZeneca vaccine (a Viral vector vaccine). The third vaccine expected to be approved and used in Australia, later this year, and subject to approval by the TGA, is the Novavax vaccine (Protein subunit vaccine).

The Novavax vaccine will be made using a compound extracted from the soapbark tree, saponin, as an adjuvant. The inclusion of the adjuvant, saponin, will boost the antibodies produced in our immune systems to fight the virus. Prior to being used in this way (as an adjuvant), saponin was used as a foaming agent and can be found in products as diverse as shampoos, fire extinguishers and root beer!



The soap bark tree is one of the youngest forests at the Arboretum (first planting of most of the trees was in 2017) and is located in Forest 94. The soap bark tree is native to central Chile and grows in dry poor soils, up to elevations of 2000 metres. The trees in our forest are coping very well in the Canberra climate.



By the end of the year, some of us may well have been vaccinated with an extract of the bark from the same species as our own soap bark trees in Forest 94. For more information on the use of saponin in the Novavax vaccine, see the following news article:<https://www.nytimes.com/interactive/2020/health/novavax-covid-19-vaccine.html?referringSource=articleShare>

## Chair's Report

Greetings to you all and may 2021 be a very safe and happy year for us all.

I've got a few photos to share with you ....

The first is some success in my garden having purchased some seeds from a Harvest Stall



... and planted them. Ange McNeilly tells me from the photos they are very healthy Jack Be Little mini pumpkins! Edible, with a nutty texture, can be stuffed and cooked either as a sweet or savoury dish, can be roasted whole or microwaved by scooping out the seeds, drying them on a paper towel and saving them in a container to plant in the following years. Both seeds and seedlings are very popular at our market stalls.

Apparently it is better for the pumpkins to ripen on the vine and be picked in autumn when quite orange and the vine starts to wither. It turns out that the vine withered very quickly in my garden under the summer's hot sun. The pumpkins didn't grow much

bigger than 10 to 15cms in diameter. They are beautifully ornamental too as you can see in the photo.

Last month I was the guest speaker at the PROBUS Macquarie Club at the Raiders Club at Holt. It always gives me great pleasure to speak about the Friends and the many roles you undertake so willingly. The majority of the 46 strong audience had visited the NAC so were familiar with what I was talking about. They were most interested to know about the birdlife coming back to the NAC. I must say my knowledge on that topic was next to nil so said I would get back to them... if any of you know what birds have returned to the NAC and any other ornithological stories for me to share with the PROBUS group, please let me know and it would be most welcome!

Over the holiday period I became a Ngala Bus Driver! The Guides on the Ngala Tours do a splendid job giving our tourists a running commentary as we drive along and I commend them highly on their commitment and preparation of their stories they tell. I'm looking forward to having the side roads sealed and being able to go further out to explore the many other wonders of the NAC.



We are hoping that Warm Trees 21 will get underway later in the year, Covid restrictions allowing. The objective of Warm Trees is to entice people to explore the Arboretum during Winter and increase visitor numbers as well as expand their experiences! The focus will again be on huge knitted design elements and workshops for children. The High Commission for the Republic of Singapore has agreed to be our diplomatic partner in 2021.

You will recall that our Warm Trees diplomatic partner a couple of years ago was the New Zealand High Commission (NZHC). Decorations made by the Friends of pohutukawa blossoms were made and used. At the end of the Warm Trees celebration, these decorations found a resting place in Jocelyn's garage and then in mine. Last month I was able to deliver these very decorations to the NZHC for their Waitangi Day Celebrations.

I represented the Friends at a meeting with the NZHC Dame Annette King at a recent morning tea she hosted for NAC management. Christine Callen and I got to sing the praises of the NAC (no need as they are true believers) and that of the Friends. I gave Dame Annette the Arboretum Book and it immediately went on to the coffee table in the foyer.



I have been invited, on behalf of the Friends, by Jocelyn Plovits who is managing the updating of our Arboretum book, to have a few words at the beginning of the book. This section is being composed as I write. You will be delighted with the new-look, refreshed and updated Arboretum Book. The cover is spectacular! The process is running to schedule and will be ready for launch and sales well before Christmas 2021. Meanwhile the original Arboretum Book continues to make steady sales at the sale price of \$20.00 per copy.

Finally, in February this year, the Arboretum nominated us, the Friends of the National Arboretum Canberra, for the 2021 Handbury Award named in honour of the late Geoff Handbury AO, a major benefactor of the Australian Association of Friends of Botanic Gardens Inc. The award recognises exceptional contributions to an Australian Arboretum by a member group. So it's a case of 'watch this space'!

Kind regards  
Trish Keller OAM  
Chair

## February 2021 Tree Dedication

The first Australian Tree Hero Dedication for the year was held on Thursday February 4, when our local Raiders legend Ricky Stuart planted a hoop pine. Ricky is the 12<sup>th</sup> hero to plant one of these trees lining Central Valley, and was recognised for his success in rugby league, from the Queanbeyan Whites to the Raiders to the Kangaroos, and his dedication to supporting and raising funds for people with autism, and their families, through the Ricky Stuart Foundation. The City Services Minister, Mr Chris Steele was in attendance

along with Ricky's wife and family, Scott Saddler and other key executives of the NAC and the Friends' Chair, Trish Keller.



## Chat with Cally

Things have been bustling along at the Arboretum with lots of people enjoying the spectacular setting and weather. A huge thank you to our wonderful team of volunteers who look after our visitors and living collection.

Our Guiding training kicked off on Tuesday 23 February and I'd like to extend a warm welcome to our new Guides and a big thank you to our Guiding Gurus and guest speakers who will be helping to deliver the training. I'd like to acknowledge the training expertise and professional skills that

Sandy Linsley has brought to the Arboretum as she further developed the Guides training as well as maintaining the resources and consistency of information via the Guides website. While Sandy won't be co-presenting the training, the quality of the Guides' resources and program are a credit to her and I'd like to extend a huge thank you to Sandy and public acknowledgment for her enthusiasm and commitment to supporting new Guides.

Our popular playgroup, Wollemi Wanderers continues this term. Sessions are on Mondays and Fridays from 10.00-11.30am. More information and bookings able to be made through the Sticky Tickets website: <https://bit.ly/2MhUkna>

You can also book in for our regular Forest Walks and Ngala bus tours via Sticky Tickets: <https://bit.ly/3aJwme2> Our next Long Forest Walk will be on Sunday 21 March and will explore the evolution of Australian forests through the Eucalypts forests within the Arboretum. Tickets will be available soon so keep an eye on our website!

Cally Earnshaw  
Community Engagement Officer  
National Arboretum Canberra

## Discovery Kitchen Garden Update

Article and photos by Ange McNeilly

A garden reflects the care and attention devoted to it by the people who maintain it. There are now eleven Harvest Group volunteers who look after the Discovery Kitchen Garden. A few long-time members attend the garden weekly while others attend on alternate weeks, with some having joined recently. A big thank you is extended to the dedicated garden volunteers both past and present.



Along with the routine tasks of watering, staking and tying plants, deadheading, and pest control, there is the annual January harvesting of the English lavender in the Sensory Garden. This lavender is dried, processed and packaged in organza bags for sale at market stalls. Lavender is great for repelling moths in cupboards, wardrobes and drawers and a bag under the pillow is purported to promote restful sleep. It is also good for baking in cakes and biscuits. There are many other cosmetic and household uses for lavender which can be found on the internet.

**Above: Sue W and Chris harvesting lavender in the Sensory Garden.**



This year, a bumper harvest was expected due to higher rainfall. However, it turns out that the constantly fluctuating temperatures have impacted on fruit set for the scarlet runner beans, eggplants and tomatoes. Produce will most likely be harvested later than in previous years. There are still at least six weeks for vegetables to continue to ripen before the advent of cooler weather, traditionally from ANZAC Day. The harvested produce will be processed into chutneys, relishes and pickles for sale at the next **Harvest Group Market Stall scheduled for 8 May 2021** when hopefully, there will be lots of fig products for sale as well.

**Left: Lorraine cultivating the garden.**



**Above: Julie, Sue W and Sue E on duty at the garden weeding**



It is now time to sow sweet peas, traditionally sown on St Patrick's Day. However, experience has shown that seed sown earlier produces as good, if not better results. Broad beans, climbing peas, snow peas, Florence fennel and endive can also be sown now. March is also a good time to plant out seedlings of winter brassicas so the warm soil helps them to establish and grow well before the cold weather sets in. Flowers, such as cornflowers, pansies, poppies and calendula can also be sown or planted out to provide vibrant colour through winter and early spring. Also, remember to plant ornamental kale for stunning colour and form and which, in sheltered positions, can persist for a number of years. Happy gardening!



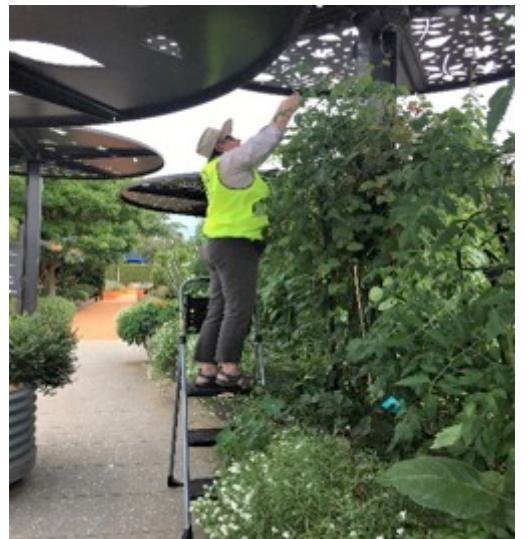
**Left:** Janet and Maggie stripping dried lavender from stems.

**Right :** Sue E saving poppy seed.

**Below:** Cynthia tying climbing plants and watering after planting.



**Below:** Tralie with harvested eggplant.



## Say 'Hello' to our new Forest 15: *Xanthorrhoea glauca* or grass tree

Information for this article was kindly provided by Joanne Maples, Gail Neuss, NAC Indigenous Tourism Officer, and the Horticultural Team at the Arboretum.

From July 2020, the Arboretum's newest forest was created and planted and is now home to almost 70 *Xanthorrhoea glauca*. They are one of a number of *Xanthorrhoea* species in Australia (estimated at 28).



Forest 15 spans Forest Drive, with trees planted among groups of boulders cascading down the hillside, on the higher side of the road. Trees were sourced from a commercial nursery and were held at the Yarralumla Nursery prior to planting. The new forest replaces the dragon trees and may be further extended across Forest Drive.

The species name *Xanthorrhoea* comes from the Greek words 'xanthos', meaning yellow and 'rhoea', meaning to flow, referring to the resin; *glauca* is the Latin word for blue and refers to the leaf colour.

The layout of the forest moving down the slope of the hill represents the flow of the tree's resin. The arrangement of clusters of trees within the forest are derived from and representative of the resin gluing the leaves together in bundles to form the distinctive decorative trunk.

The grass tree is extremely important to Aboriginal people across Australia:

- The sap/resin is used as binding glue (heated and melted) for making weapons and holding grass rope in place.

- The dried stem, which is quite soft, is used to make a base for a fire drill to start a fire (friction) and the stem is also used to make spear handles.
- The flower spike can be soaked for a lightly sweet drink.
- The stem holds good fire for burning country or lighting the way in dark.
- Roots around the base of the stem can be eaten – they are said to taste like potato.
- They are also an important for trade and provide shelter.



The grass trees were some of the first Australian flora depicted by colonial artists.

Nowadays *Xanthorrhoea* are very popular in gardens and are considered an icon in Australian garden plantings. They may be ‘fired’ to remove dead leaves and expose a blackened ‘trunk’.

The *Xanthorrhoea glauca* in Forest 15 is native to south-eastern Australia in Queensland, NSW, ACT and Victoria. It grows in coastal heathlands and wet and dry forests in free-draining, nutrient-poor soils. It is drought, frost and fire tolerant and is not threatened. Indeed, after the bushfires of summer 2019–20, there have been sightings of many grass trees in the wild proudly blooming.

Whilst it is slow-growing (1–2 cm a year), the evergreen tree can grow up to 5 metres and a spread up to 1 metre or more, generally with a single ‘trunk’. Older or damaged plants may have multiple ‘trunks’. Leaves are long (0.5–1.0 m), narrow (1–5 mm), stiff and blue-green to grey in colour. They form a tussock at the top of a ‘trunk’ formed from old leaf bases stacked on top of each other and held together by resin. Old leaves often hang down to form a ‘skirt’ around the trunk until burned away in bushfires. The protective thatch of leaves at the crown then grows rapidly using sugars stored in the trunk. Masses

of small white to cream flowers, which produce an abundance of sweet nectar, develop on long woody spikes (1.0–2.5 m) in Spring, especially after fire. Seed pods form along the spike.

## **Wollemi Pines Update January 2021**

*Article contributed by Helen Hemphill, additional information from the NAC Horticultural Team, photo Mike Woolley.*

Last year's bushfires were a very close call for the world's last stand of Wollemi Pines. Watering the pines during the bushfires saved the larger trees (49), but many young trees and seedlings were burnt. The trees with stems of less than 2m were severely affected. Only four escaped harm. Twelve months on, not many trees below 8m, as well as juvenile plants, are re-sprouting. Only 2 per cent of trees between 5cms and 2m have started to re-sprout. Scientists are concerned that more frequent severe bushfires could kill all the trees.

Berin Mackenzie, a fire crew member and one of the ecologists leading the post-fire study, said because of the pines' slow growth rate there was a risk that coppicing plants or seedlings would not be high enough to avoid a total loss of canopy during the next fire. Mackenzie said, "I can say with very high confidence those firefighters saved the trees". "It's the first time that such a massive effort has been made to protect an important biodiversity asset."

Associate Professor Cris Brack from ANU said the damage to juvenile plants was "worse than I had been led to believe". He also said that the watering system used to save the trees may have to be permanently installed. It will work if there is water running in the creek.



The NAC has viable seed stored at the Australian Botanic Garden (Mt. Annan) and it can be used for NSW Parks and Wildlife Service conservation work in the wild collection. Tim Howard, NAC Senior Horticulturist, recently reached out to Berin Mackenzie to check if they intend to plant new trees and if so, will they seek to use NAC seed.

The Friends have also funded Yarralumla Nursery to propagate approximately 100 Wollemi seedlings (using NAC seed from Mt Annan) and progress is reported to the Friends' Council on a regular basis. Further counting of new seed on the Wollemi pines in Forest 33 will also soon get underway, with this photo showing mesh bags now on the trees to assist seed counting.

**Reference:**

[Wollemi pines: 'Dinosaur trees' survived ... - smh.com.au](https://www.smh.com.au/environment/conservation/dinosaur-trees-survived-black-summer-but-they-haven-t-recovered-enough-for-the-next-bushfire-20210113-p56tty.html)

<https://www.smh.com.au/environment/conservation/dinosaur-trees-survived-black-summer-but-they-haven-t-recovered-enough-for-the-next-bushfire-20210113-p56tty.html>

By Peter Hannam. January 14, 2021



### Another look at the female Parana' Pine Cone

The December Newsletter included an article detailing the number of male and female trees in the Parana' Forest (23) which had either male or female cones respectively. Mike Woolley has kindly provided a photo taken in January 2021, of one of the maturing female Parana' cones .

Thank you to all our Contributors: Many thanks to the people who have contributed articles and photos for this and previous issues of the Newsletter, and given generously of your time to write, read and proofread. I could not do it without your help. If you have ideas for articles, or items that might be of interest to the Friends such as stories or photos from the Arboretum or further afield, please contact me, Nicole Pietrucha, on: [pietruchanac1@gmail.com](mailto:pietruchanac1@gmail.com)

## Keeping in STEP

Greetings and welcome to 2021. We all are looking forward with hope to a better year with fewer restrictions and fewer anxieties. We began the year in a spirit of happiness as we gathered for our yearly lunch. There were 36 of us able to attend and enjoy the sumptuous fare and great company. At this event, we awarded Andy Russell a well-deserved Life Membership.



The certificate he was given had a citation as shown below:

**Southern Tablelands Ecosystems Park  
members are pleased to award**

**Life Membership  
to  
Andy Russell**  
in recognition of his outstanding contribution to STEP through promotion of individual and corporate memberships, production of the STEP newsletter and the monthly “Of interest at Forest 20” photo-sheet, and support and advocacy on STEP’s behalf since its inception.

Judy Smith (President) David  
Shorthouse (Vice-President)  
17 January 2021

As the scope and complexity of managing Forest 20 increases, the committee has devised a way in which decision-making can be shared among volunteers who have particular skills or knowledge. We identified two key areas of expertise: Maintenance, Management and Development and Outreach and Engagement Activities. We have volunteers whose experience and expertise make them eminently suitable as “Go-To” people for particular aspects of Forest 20. We have also identified responsibilities for general volunteers. We are trialling this process and would welcome any comments and suggestions for how this may be improved or streamlined.

The diversity of plants at Forest 20 continues to grow with some 40 Lepidiums given to us by Alice Hathorn. These pepper-cress species are endangered but Alice has had success propagating and growing these.



Drainage control continues to be problematic with heavy rain early in February creating significant damage to paths and plantings. We are working with NAC staff to remedy the damage and we are grateful also for offers of help from the Friends group of volunteers.

Gail Neuss, Indigenous Tourism Officer, visited STEP Thursday 4 February and expressed her enthusiasm for working with STEP in future.

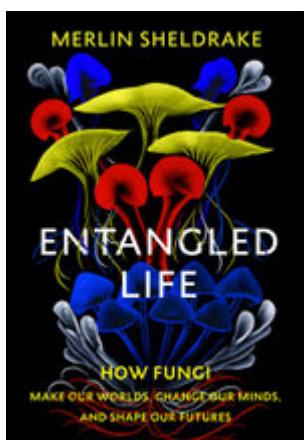
Finally, I would encourage you to have a look at our newly updated website. Keith Pantlin has done an excellent job and we are very grateful for his expertise and creativity. Thanks Keith, we are very appreciative of you looking after our website.

Judy Smith  
President

## Fungi for all

Contributed by Melanie O'Hanlon of The Curatoreum

There is no doubt that the recent focus on Fungi in the mainstream scientific community has led to a plethora of books on the subject. The runaway success of Peter Wolleben's, *The Hidden Life of Trees* highlighted the symbiotic relationships of fungi with their forest environments, and since then there has been a renewed interest in mycology within the publishing world. Here at The Curatoreum, we have a selection of fungi books that will appeal, no matter your age or level of interest. Don't forget to show your Friends card for 10% off at either the Arboretum store or the National Portrait Gallery store



[Entangled Life, by Merlin Sheldrake. \\$35.00](#)

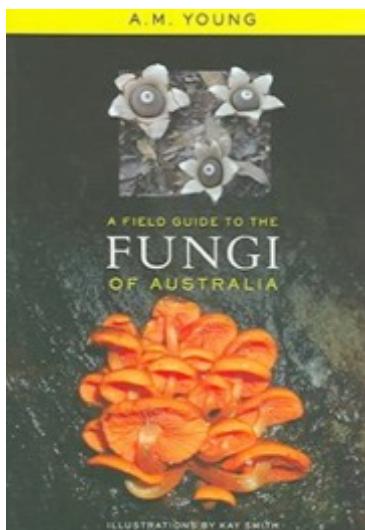
The more we learn about fungi, the less makes sense without them. Neither plant nor animal, they are found throughout the earth, the air and our bodies. They can be microscopic, yet also account for the largest organisms ever recorded. They enabled

the first life on land, can survive unprotected in space and thrive amidst nuclear radiation. In fact, nearly all life relies in some way on fungi.

These endlessly surprising organisms have no brain but can solve problems and manipulate animal behaviour with devastating precision. In giving us bread, alcohol and life-saving medicines, fungi have shaped human history, and their psychedelic properties have recently been shown to alleviate a number of mental illnesses. Their ability to digest plastic, explosives, pesticides and crude oil is being harnessed in break-through technologies, and the discovery that they connect plants in underground networks, the 'Wood Wide Web', is transforming the way we understand ecosystems. Yet over ninety percent of their species remain undocumented.

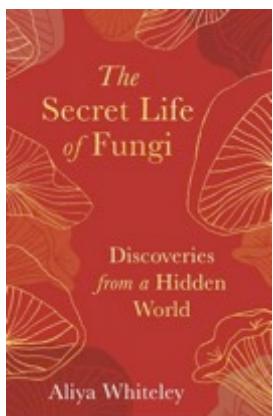
*Entangled Life* is a mind-altering journey into a spectacular and neglected world, and shows that fungi provide a key to understanding both the planet on which we live, and life itself.

[\*\*A Field Guide to the Fungi of Australia, by Tony Young & Kay Smith. \\$39.99\*\*](#)



Australia is world-renowned for its often extraordinary and unique natural environment – including many of its plants and animals. This beautiful little book highlights an often overlooked, but just as remarkable, aspect of our natural world: Australia's fungi. Many are brightly coloured, some fluorescent; some are elegant, others squat; some are fragrant, more still are highly toxic. This field guide showcases many of these species in all their splendour.

[\*\*The Secret Life of Fungi: Discoveries from a Hidden World, by Aliya Whiteley. \\$26.99\*\*](#)



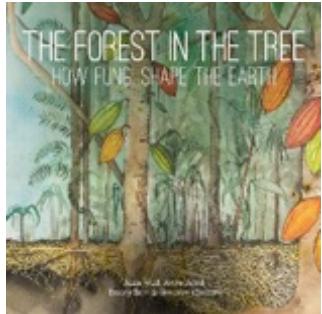
Fungi can appear anywhere, from desert dunes to frozen tundra, and create anew from rotting matter. They can invade bodies and thoughts; they can live between our toes or between our floorboards; they are unwelcome intruders or vastly expensive treats; they are symbols of both death and eternal life. But despite their familiar presence, there's still much we don't know about these secretive life forms.

In this illuminating book, Aliya Whiteley delves into everything from cellular makeup to the fascinating ways fungi interact with their surroundings and other species, as well as the many varied roles they've played in our own civilization. The vast potential of these understudied organisms is still untapped; though long used as a source of food and medicine, they could also hold the key to a

variety of scientific advances, from agriculture to environmental innovations.

The Secret Life of Fungi is a glimpse into their incredible, surprising and dark world: a lyrical tour through the eruption, growth and decay under our feet, overhead, and even inside us.

**[The Forest in the Tree: How Fungi Shape the Earth, by Ailsa Wild, et al. \\$24.99](#)**



This is a story about trees and fungi connected through a 'wood wide web' – told by one tiny fungal spore. A little fungus meets a baby cacao tree and they learn to feed each other. They cooperate with a forest of plants and a metropolis of microbes in the soil. But when drought strikes can they work together to survive? This science-adventure story explores the Earth-shaping partnerships between plants, fungi and bacteria. Suitable for ages 7 up.

## A Himalayan Cedar story from the National Bonsai and Penjing Collection of Australia (NBPCA).

Story and pictures supplied by Mike Woolley (last picture sourced outside the Arboretum).

In 2020 the Canberra Bonsai Society (CBS) published the story of their first 45 years in a limited-edition book titled *A History of Canberra Bonsai Society*. In covering the people and stories behind the society, the important contribution of some of its members to the establishment of the NBPCA is recorded. Also appearing in the history are some of the trees that have been accepted as donations from CBS members. One such donation was made by Jim Miller, a life member of the Society and a previous long-standing and influential president. The following is a story from *A History of Canberra Bonsai Society* describing the history of the Himalayan cedar (*Cedrus deodara*) which is an excellent foil for Forest 11 – the Himalayan cedar forest. The story of the cedar is reproduced below with the permission of the CBS and Jim.



This Himalayan Cedar was originally grown as nursery stock by Walli Tietz who was a Canberra Bonsai Society secretary in the early days of the society. Walli grew it in her garden as potential material for the 1995 Bonsai Club's International convention. It was not required, and some time in the mid-1990s, Walli sold it to another CBS member, Ruth McLucas.



Jim bought it from Ruth at the CBS show in October 1998 and began to style it in November 1998, extensive styling continued through to August 2000 when it was first put into a bonsai pot. It was first displayed at the 2004 Australian Association of Bonsai Clubs' Convention in Canberra and again at the 2005 CBS show. The tree was then loaned to NBPCA in 2008 for a couple of years at its temporary home in Commonwealth Park and again in February 2013 for the official opening of the NBPCA up on 'The Hill'. It was later offered and accepted, as a donation to the NBPCA in May 2015. In Spring 2011, after being impressed by an old Himalayan cedar at the botanical gardens in Adelaide, Jim was inspired to emulate that look in his tree and after subsequent years of intensive wiring and pruning, particularly during 2014, created the pendulous style seen today.

in 2021, there has also been recent work to enhance the appearance of the life-size Himalayan Cedars in Forest 11. The NAC Working Bees started work again in February this year and spent a number of sessions working to remove dead wood from the lower trunks of the Himalayan Cedars, so if you go into the forest now, you will see each of the tree rows looking much tidier and more statuesque! This tree, whilst not one of ours, celebrates the beauty of the life size Cedars!



## How to join the Friends

Visit arboretumcanberra.org.au to join online or to find out more about the benefits of being a member

OR

Email your details to: contact@arboretumcanberra.org.au and pay by funds transfer or cheque

OR

Complete the Application Form and mail it to:

The Secretary, Friends of the National Arboretum Canberra, PO Box 48, Campbell, ACT 2612, and pay by funds transfer or cheque.

- Bank details for funds transfer:  
Westpac, Petrie Plaza, Canberra, ACT: BSB 032 719.  
Account: 375379 – please include surname in description.
- Cheques payable to: Friends of the National Arboretum Canberra Inc.

Membership type	1 year	2 years
<input type="checkbox"/> Individual	\$45	\$80
<input type="checkbox"/> Household	\$55	\$100
<input type="checkbox"/> Concession*	\$25	\$40
<input type="checkbox"/> Club/Association**	\$100	\$180
<input type="checkbox"/> Business**	\$500	\$900

\*Pensioners, health card holders & students

\*\*See website for details

## Many thanks to all our sponsors:



CanberraNet

**THE  
CURATOREUM**

Curated Objects, Thoughtful Gifts  
And Fine Publications



## Membership Application Form

Membership type: \_\_\_\_\_

Title: \_\_\_\_\_ First name: \_\_\_\_\_

Last name: \_\_\_\_\_

OR

Club/Association/Business name: \_\_\_\_\_

Address: \_\_\_\_\_

State: \_\_\_\_\_ P/code: \_\_\_\_\_

Email address for newsletter and updates: \_\_\_\_\_

Phone: \_\_\_\_\_ Mobile: \_\_\_\_\_

Number of parking passes: \_\_\_\_\_

Total amount payable (include membership/s and parking pass amounts): \$ \_\_\_\_\_

Signature: \_\_\_\_\_

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

Parking Pass                          1 year

Friends' Annual                          \$35 per vehicle  
Parking Pass

For a parking pass, please include your vehicle's registration number: \_\_\_\_\_

Note: An Individual Member is entitled to apply for one Parking Pass at the Friends' rate and a Household Member is entitled to apply for two Parking Passes at the Friends' rate.

*Parking passes are issued for one year from the date of purchase.*