



# FRIENDS of the National Arboretum Canberra

## Newsletter 29 / October 2015

### Greetings dear Friends

Springtime in Canberra is such a pretty time all around our city. Many of the Arboretum forests are showing off their prettiest colours. If you climb the hill to the Village Centre, you cannot miss the Yoshino cherries in flower on your right, in Forest 17—and down south, in Forest 87, the callery pear blossoms are looking quite magnificent. They can easily be seen and enjoyed by all who drive north along Tuggeranong Parkway.

Floriade in Commonwealth Park continues to be spectacular again this year. Thanks to all the Friends who volunteered to work in the Inspiration Hub on Friday, 25 September. Many a pansy was planted, giving satisfaction to adults and children alike, and much Arboretum information was supplied to the visitors. Bucket-loads of appreciation must go to the Arboretum admin team for their preparation of activities, ensuring everything was in place prior to the large crowds coming through the gates and later, enduring the weary task of bumping out at day's end. Thanks Arboretum team for a great job!

The Arboretum invited our past Chair, Jocelyn Plovits, to plant a ceremonial tree, a drooping sheoak (*Allocasuarina verticilla*) in Forest 100—the Friends Forest. Many of our members gathered to witness this special event which was a fitting tribute to Jocelyn who, from day one, has made (and is still making) wonderful

and generous contributions to the Arboretum and the Friends. Congratulations and thank you Jocelyn.

Kite-making over both long weekends of the school holidays was again popular with children and adults enjoying the making, followed by instant kite-flying in the Amphitheatre. Some participants said that kite-making should be on every day as they thought it was the best activity on offer around Canberra.

See you at the Friends' General Meeting coming up on **Tuesday 13 October**, starting at 5:30 pm at ActewAGL House, corner of Bunda and Mort Streets in the city. Our guest speaker will be Mr Rolfe Hartley, Chairman of the Freefall Pin Oak Steering Committee who will give an illustrated talk about the exciting sculpture planned for Forest 41. Unfortunately most members missed Rolfe's earlier talk in August, due to appalling wild weather.

The next Friends' Talk Series event at the Margaret Whitlam Pavilion will be held on **Monday 26 October** from 6:30 to 7:30 pm (will start on time so please don't be late). Guest speakers will be: Ms Rosemary Follett AO, who will be reviewing the exciting early days of the development of the Arboretum and future community involvement; and Dr Roger Hnatiuk, who will reveal the findings from the stocktake of the Arboretum forests, undertaken by a team of Friends' volunteers. Don't miss this highly informative evening. Cost \$8.00 per person for members or \$10.00 for non-members.

Please put the Friends' Christmas Lunch date in your diary—**Saturday 28 November**, in the Himalayan cedars picnic area, starting at 12:00 noon. The colour theme for attire is red and/or green. A sausage sizzle will be provided but if those attending could also bring a plate of sharing food it would be appreciated. More information on this event will be on our website. Watch that space! There will be a quiz, a raffle with incredibly delicious prizes, lucky spot prizes and plenty of fun.

*The Arboretum Book* continues to sell steadily and *The 2016 Arboretum Calendar* is also available at the Curatoreum gift shop and via our website: [www.arboretumcanberra.org.au](http://www.arboretumcanberra.org.au). Both publications would make great Christmas gifts.

See you soon—at the Arboretum!

**Trish Keller OAM**  
Chair

### IN THIS ISSUE . . .

*Tree Week: Celebrating the 21st anniversary of the discovery of the Wollemi pine* **page 2**  
*Minister opens new horse holding yard* **page 5**  
*2015 Citizen Science Conference Report* **page 6**  
*Waite Arboretum, University of Adelaide* **page 8**  
*The 2016 Arboretum Calendar has arrived!* **page 9**  
*Warm Trees 2015* **page 10**  
*Obituary: Paul Moran* **page 11**  
*Forest Talk* **page 12**



## TREE WEEK 2015

# Celebrating the Wollemi pine

A PICTORIAL REPORT BY LINDA MULDOON

This event, with its many facets, celebrating the 21st anniversary of the discovery of this species, must be the Friends' most ambitious project yet.

### Part 1. The exhibition

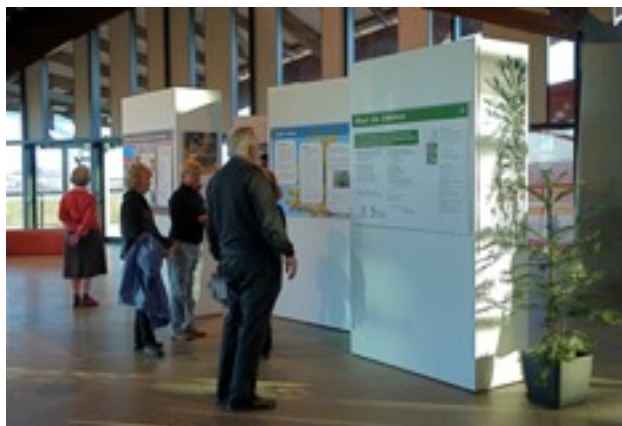
This didn't happen overnight. Ideas were circulated in January and coming to fruition in June. Anna Howe and Alma Quick, from the Friends, formed a working group with Heather Tregoning, Arboretum Education Co-ordinator, and Samantha Ning from TAMS. On 11 June a few of us reviewed the draft story boards in the White Room. After a few minor revisions, the boards were headed for the final stage of production with Clive Hilliker, Visual Communications Officer at the ANU Fenner School. The Exhibition was erected in the Village Centre and viewed from 3 July to early August.

### Part 2. Guided walks to Forest 32

During July, our guides led visitors on one-hour walks to the Wollemis, also passing through the Mediterranean red buds, Chilean wine palms and Chinese rubber trees.

### Part 3. The 21st anniversary celebration

This event was held on Monday, 20 July, from 4:00–5:00 pm in the Village Centre and I think those that attended would all agree that this element of our project was particularly successful.



Stephen Alegria, the Arboretum's Executive Manager, was the first speaker. He had just returned from long service leave so expressed his amazement at all the creativity that had gone on in his absence. Our Chair, Trish Keller, then welcomed an extensive list of distinguished guests: David Noble, discoverer of the Wollemi pine; Dr Cathy Offord and Dr Trish Meagher of the Royal Botanic Gardens Sydney; Phil Hore, Education

*Below: Toasting the Wollemi—and there are plenty of faces of Friends and guests to recognise here*





*David Noble*

Director of the national Dinosaur Museum, Associate Professor Cris Brack and Dr Matthew Brookhouse from the Fenner School of Environment and Society at the ANU. There were also guests who had engaged in Wollemi Diplomacy when the Wollemi pine went global from around 2004: The Honourable Penny Wensley AC, Australian Ambassador to France 2005–08; Mr Pierre Lapeze, representing the French Ambassador and the Wollemi pine that is thriving in the *Jardin des Plantes* in Paris; and Mr Matthew Murray representing the Ambassador of the United States.

David Noble, dressed in his National Parks and Wildlife Service of NSW uniform, was the next speaker. He told of how this chance discovery changed his life and took him around the world to tell his story. Trish then proposed a toast to the Wollemi. All members of the sizeable audience were upstanding—what a moment this was! The next speaker was Phil Hore who was presented with a Wollemi pine raised at the Arboretum. This was to thank him for donating petrified wood samples from the Cretaceous era (now on display in the bonsai pavilion). Next came Dr Matthew Brookhouse and Dr Cris Brack who presented the Arboretum with a polished cross section of a Wollemi trunk. They were joined by Dr Cathy Offord and Dr Trish Meagher of the Royal Botanic

*Dr Matthew Brookhouse presenting Stephen Alegria with the polished cross-section of Wollemi pine (see inset).*



*Alma Quick and Anna Howe with 'their' exhibition*



*Friends' Chair, Trish Keller (left), with Phil Hore and Jocelyn Plovits*

Gardens Sydney who had facilitated the provision of this rare artifact from fallen timber.

The Hon. Dr Penelope Wensley gave an exciting speech about just how 'big' the discovery of the Wollemi was on the world stage and how it helped with diplomatic dealings with other countries and furthered Australia's environmental and conservation credentials.

Next, Trish thanked all those associated with the exhibition. Then there was time for the guests to mingle and partake in refreshments, including the chocolate

*The Hon. Dr Penelope Wensley*





Stephen Speer, Assistant Director Communications and Visitor Services, ANBG, chairing a session

crackles that Anna Howe made because they looked just like mature Wollemi bark!

#### Part 4. The seminar

The seminar: 'The past, present and future of *Wollemia nobilis*'; was held on 21 July in the Margaret Whitlam Pavilion from 9:00 am to 1:00 pm.

David Noble was the first speaker and he told of the discovery of *Wollemia nobilis* which is named after him. He was abseiling into a steep canyon in Wollemi National Park on his weekend off when he discovered tall trees that he was unable to identify, but he had just enough botanical knowledge to be curious and collected a sample for identification. But for that one act, this species could have remained undiscovered.

Here I would like to be able to present our membership with a synopsis of the presentations, particularly those relating to current-day research. However, papers were not lodged with the Arboretum and the seminar was not recorded. This is something to rectify if the Friends are involved in similar events in the future.

The subjects and speakers were as advertised in Newsletter 28, with the addition of three short presentations by students conducting research into the Wollemi. They were: Rachael Lowe of the Australian National University; Jessica Mowle of the University of Western Sydney; and Heidi Zimmer of the University of Melbourne.

A Q&A session followed the session: 'Beyond the Arboretum: *Wollemia nobilis* in the wider world'. Then our Chair, Trish Keller, closed the seminar, presenting copies of *The Arboretum Book* to David Noble and Dr Cathy Offord, and Certificates of Appreciation to the other participants.

#### Part 5. The tree dedication ceremony

After lunch, some of us gathered in Forest 32 to witness the unveiling of a plaque, dedicating a tall healthy Wollemi at the northern end of the forest to David Noble. Shane Rattenbury MLA, Minister for Territory and Municipal Services spoke prior to the unveiling. This part of the event was organised by Arboretum staff.



PHOTOS BY AUTHOR



Above: A surprise for everyone at the seminar—an RAAF balloon came very close to our venue! Below: David Noble with Shane Rattenbury and Trish Keller at the tree dedication ceremony





*Shane Rattenbury addressing the crowd of equestrians, Arboretum staff and Friends*

## **Minister opens new horse holding yard**

On 26 August 2015, Shane Rattenbury MLA, Minister for Territory and Municipal Services, opened this new facility for our equestrian visitors. It offers riders the freedom to rest and explore the Arboretum's facilities if

they wish. The gated holding yard is located in Forest 13 (Buchan blue wattles) opposite and just north of the Village Centre. Extensive tethering space can be found within and a purpose-built water tank and remounting platforms can be found close-by. Entry to the yard is restricted to those with horses tethered there.

*Trying out the remounting platforms*



*The new purpose-built water tank*

PHOTOS: LINDA MULDOON



# Report on the 2015 Australian Citizen Science Conference

BY ROGER HNATIUK

## MAXIMISING THE CAPACITY OF CITIZEN SCIENCE FOR SCIENCE AND SOCIETY

*A Fenner Conference on the Environment supported by the Australian Academy of Science, held on 24–25 July at The Shine Dome, Canberra*

The conference was opened by the Chief Scientist, Professor Ian Chubb, who spoke of the great importance of science to Australian society and its economy. He referred to a recent paper that his office provided to Government with recommendations on future directions and noted that it included a reference to Citizen Science.

Highlights for me were:

- ◆ **Citizen Science is a significant contributor to scientific research**
- ◆ **It was included in a recent paper from the Office of the Chief Scientist to the Government and was also included in the Government's response**
- ◆ **A copy of the paper is at:**  
[http://www.chiefscientist.gov.au/wp-content/uploads/Citizen-science-OP\\_web.pdf](http://www.chiefscientist.gov.au/wp-content/uploads/Citizen-science-OP_web.pdf).

A jointly produced poster by Associate Professor Cris Brack and myself was displayed during the first poster session (this poster can be seen on the following page). It presented the Tree Growth Monitoring project, which is a Citizen Science project at the National Arboretum Canberra that is strongly supported by the Friends' group. The poster was well-received and much discussion with attendees occurred. We handed out many A4 size versions to interested persons. The poster also resulted in the following contacts: Associate Professor Stuart Pearson from UNSW ADFA wants to bring his students to measure trees, as well as examining trees at the Arboretum for other research they are doing. Brian Spilbury from Goulburn, a supporter of the Goulburn Wetlands project, wishes to establish a Citizen Science project for various aspects of the biodiversity of land there. He would like to initiate a growth monitoring project for the trees and brought a group of like-minded members to the Arboretum on 6 August when I explained what we did with our project. Ongoing liaison is likely to arise from this encounter. There are several highlights from the Conference that I'll mention here.

1. Citizen Science is a new and rapidly expanding area of positive interaction between professional scientists and the wider community. It cuts across many diverse fields of human enquiry, as could be seen in a

document which arose from an enquiry I received from a Research Officer of the Joint Research Centre of the European Commission, via the Citizen Science network, who was looking for examples of Citizen Science relating to the human food chain. He was quickly provided with a very impressive list.



Roger Hnatiuk at the Arboretum

2. Australia established its first formal Citizen Science organisation during the Conference:  
**The Australian Citizen Science Association**  
(<http://www.citizenscience.org.au/wordpress/>).
3. There are so many areas where Citizen Science is already working in Australia, let alone worldwide (see this site for one overview by an overseas attendee: (<http://www.gaiaresearch.com.au/australian-citizen-science-association-conference/>)). There were Conference attendees from USA, Canada, UK, Germany, Switzerland, Portugal and elsewhere. Most projects came from the environmental/biological sciences, but extended to agriculture, biosecurity, fisheries and other marine areas, astronomy and the social sciences.
4. There are values from Citizen Science projects, as noted in the Chief Scientist's paper: (a) **for the research community**—increased scale of data collection, new or greater access to resources, access to private lands and information; (b) **for citizen scientists**—education (either formal or informal) leading to new knowledge and skills, empowerment and more active lifestyles; (c) **for society**—new information for government decision-making, greater interest in science and understanding of scientific principles, greater environmental stewardship and more engagement; and (d) **for teaching methods**—for science and mathematics subjects, whilst helping scientists to understand people's concerns and aspirations.
5. Opportunities for networking and avenues to seek help and advice are greatly broadened by the development of The Australian Citizen Science Association and it is valuable for the Arboretum's Citizen Science projects to become part of this network.
6. There were a great number and diversity of projects presented in either verbal or poster form.

I sincerely thank the Friends of the National Arboretum Canberra Council for their financial support which enabled me to attend this Conference. I'm sure that from this endeavour, there will be ongoing returns to the Citizen Science projects at the Arboretum. I was able to fly the Friends' flag during the Conference by wearing a 'T' shirt bearing the Friends' logo and it was even picked up on a Facebook report! I think the Friends got good exposure at the Conference, as did the Arboretum which many attendees had not previously heard of.

# Citizen Science powering measurements and knowledge of tree growth

THE NATIONAL ARBORETUM CANBERRA



Associate Professor Cris Brack (cris.brack@anu.edu.au)  
Dr Roger Hnatiuk (rjhniuk@yahoo.com.au)

The “100 Forests” of the National Arboretum include 34 rare and endangered species in addition to over 100 commercial and iconic species.

Little is known about these rare species, nor how they compare with other trees present in the Arboretum.

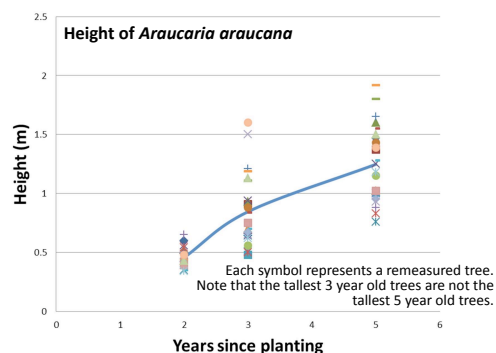
Regular and consistent data collected by Citizen Scientists will enhance our understanding of all these trees and help us to utilise their unique genetic potential.



Roger with students and citizen scientists measuring at the Arboretum

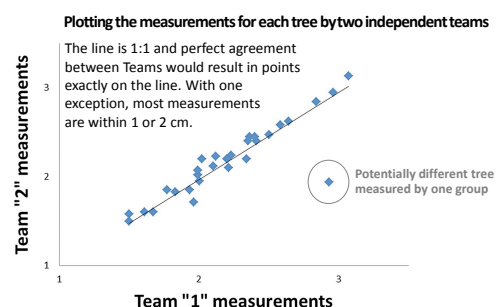
## What do our Citizen Scientists collect each year?

- Tree height and diameter of the stem.
- Overall growth of each Forest.
- Measurements of the change and variability of individual trees.
- Estimates of the impact of local topography, micro-environment and genetics via a robust statistical sampling framework.



## How do we ensure there is quality data?

- Initial training and repeated refresher updates to maximise potential from large number of volunteers with different backgrounds, skills and motivation levels.
- Keeping measurements few in kind and simple in operation.
- Evaluate observer errors by occasional cross-checking between groups; remeasuring Forests with different groups and professional trainees.
- Provide quantitative assessment of error levels along with assessments of training needs and group capacities.



## What does the future hold?

- Development of GPS-enabled, tablet-style computers linked to GIS referenced database of trees to show individual tree location and historic data, and allow direct data entry. Reduction in tree location and transcription errors.
- Development of Analysis App to enable rapid delivery of updated information to managers and data users.
- Integration with other measurement systems, especially continuous and automated systems which may identify potential patterns Citizen Scientists need to be aware of during their measurements.



Cris with a tablet computer alongside an automated micro-climate station. Records from the station indicate trends expected in the tree measurements.

## The Waite Arboretum, University of Adelaide

BY MAX BOURKE

This is where my love of arboreta began—as a student in the mid-1960s, in the Agriculture Faculty of the University of Adelaide.

Peter Waite was a wise, diligent and ultimately wealthy Scot, who established a huge pastoral empire and became head of the famous wool house, Elders, among other things. When he decided to give his Urrbrae House property to the University of Adelaide, he said: 'We have now reached a point when it behoves us to call science to our aid to a greater extent than hitherto has been done, otherwise we cannot hope to keep in the forefront.' (P Waite, 1913). Accordingly he endowed not only property but funds to support agricultural research on a large scale.

Urrbrae House Garden is superb in its own right and open to the public, but below it is the 30 hectare Waite Arboretum, containing a wonderful collection of some 2300 trees from 850 species and 200 genera. Over 750 trees are eucalypts representing 340 species, sub-species and experimental hybrids. Dr Jennifer Gardner, the Curator, is a distinguished botanist and tree manager who has also played a huge role in Treenet, the advocacy body for urban forests.

According to the Friends of the Waite Arboretum website, 'The purpose of the Arboretum is to evaluate

the suitability of a wide range of trees to our local conditions. Except for the first two years after planting, the trees in the Arboretum have not been watered for the last 50 years, nor are they pruned. Homoclimate is not a widely used word. It is derived from homo meaning the same and clime, a tract or region of the earth. It is used to describe regions of the globe that have similar climates. The concept of homoclimates was used to guide the search selection of new trees for the Waite Arboretum from the 1950s.'

The rainfall in the Adelaide foothills is similar to Canberra but more winter-dominant, so they have many species and genera which are also at the National Arboretum Canberra—indeed Waite Arboretum's logo features the dragon tree, *Dracaena draco*, and they have a magnificent 80+-year-old specimen.

Any visitor to Adelaide interested in trees should make the 20 minute drive out to the Waite Institute of Adelaide University. Adjacent is the Conservation Reserve of some 147 hectares which is probably the best remaining example of a Grey Box Grassy Woodland ecosystem, analogous to our Red Box Grassy Woodlands of Mulligans Flat and the extension area of our Arboretum site (also similar to many of the species found on the STEP site in Forest 20).

Entry to these sites is free and they are open seven days a week except during peak fire periods.



The driveway up to Urrbrae House

PHOTOS BY AUTHOR



# The 2016 Arboretum Calendar has arrived!

Calendar sales fund many of the Friends' activities throughout the year, including purchasing uniforms for Arboretum Guides. Another reason for producing a calendar is that it promotes the Arboretum and the Friends. Also, our calendar is always a little educational, telling the world about our trees and the other attractions that are unique to the National Arboretum Canberra—and these paper ambassadors get sent around Australia and around the world.

Canberrans like to purchase or receive our calendars as gifts because they are genuine souvenirs of Canberra—even printed in Canberra.

The price remains the same as in previous years:  
**\$10 each or \$9 each with members' discount.**

They are available through our website:

[www.arboretumcanberra.org.au](http://www.arboretumcanberra.org.au)

or at the Curatoreum gift shop in the Village Centre.

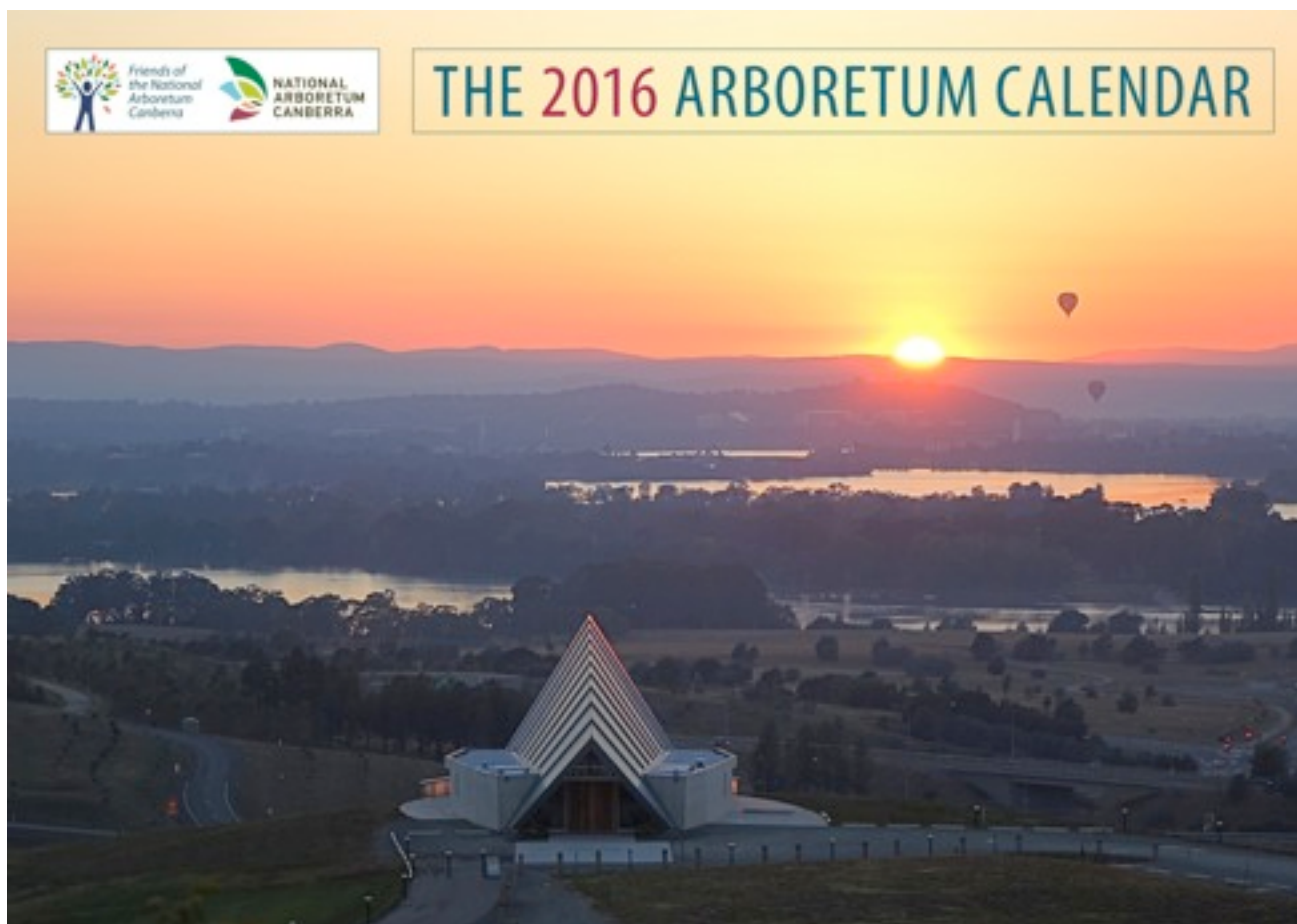
The subjects of other main photos are as follows:

January—*Nest III* eagle sculpture; February—*Eucalyptus pulverulenta* (planted next to the stone walls of the Village Centre); March—giant sequoias; April—Queensland bottle trees; May—Japanese zelkova in autumn; July—Wollemi pines; August—*Wide Brown Land* sculpture; September—Forest 20 (STEP); October—Japanese snowbells; November—Voices in the Forest concerts; December—the Village Centre from the Paraná pines; and back cover—Pod Playground.



Above: Sample page featuring the National Bonsai and Penjing Collection of Australia

Below: The front cover features the view from Forest 40 with balloons rising at dawn on Canberra Day weekend, March 2015



## Warm Trees 2015

We all huddled together like penguins at the launch of Warm Trees 2015. It was held near the entry to Pod Playground which had its fence wrapped in cosy colour, like many other surfaces during this event. This was late afternoon on 1 July and although the sun shone, the cold winds were merciless. Jocelyn Plovits (Warm Trees Chief), Trish Keller (Chair of the Friends), Lindsay Delian (CIT Yurauna Centre) and Virginia Little (representing the Arboretum) all addressed the gathering. Blankets, made from previous years' 'Warm Trees' knitting/crocheting efforts, were now displayed shrink-wrapped, ready for distribution to outback communities.



*Above: One of many radiata pines wrapped by the travelling 'Rainbow Serpent' on Dairy Farmers Hill*

*Above centre and right: The Himalayan cedars were particularly well-dressed.*

*Right: One of several ground-level graphic elements in Forest 18 (burr oak) that emphasised the zig-zag pattern that is the basis of tree placement in this forest*



PHOTOS: LINDA MULDOON

## OBITUARY

### Paul Moran

BY KATHRYN COLE

We are very sad to report that Paul Moran, one of our National Arboretum Guides, died on 15 July 2015.

Paul was very proud of the Arboretum. He loved the place and, in his retirement, he devoted a great deal of energy to it. Paul thought the Arboretum was visionary.

Paul and his wife, Glynnis, were among the first group of Friends of the National Arboretum Canberra to undertake training to become Arboretum Guides. Before Paul became ill in February 2014, he and Glynnis were to be seen at the Arboretum's Village Centre frequently, introducing visitors to Canberra's newest

attraction. Glynnis did the meeting and greeting and Paul took visitors on guided tours of the Arboretum, sharing his enthusiasm for it with them. Paul's dedication to the Arboretum was again on display in May this year, when his health had improved sufficiently for him to resume guiding. He returned, this time in a wheelchair, once again to share his knowledge of the forests and the trees and to encourage visitors to enjoy the Arboretum as much as he did.

During his working life, Paul had a stellar career in the RAAF. He was a flying instructor with the RAAF, and for a time, was a member of the Roulettes, the RAAF's elite formation aerobatic display team. Appointment to the Roulettes is a rare distinction.

A funeral service for Paul was held in Canberra on 25 July. Some of the members of the Friends that knew him attended.

Paul is survived by Glynnis, children Chris, Brent and Karla, seven grandchildren and five siblings.

His friends at the Arboretum miss him very much.

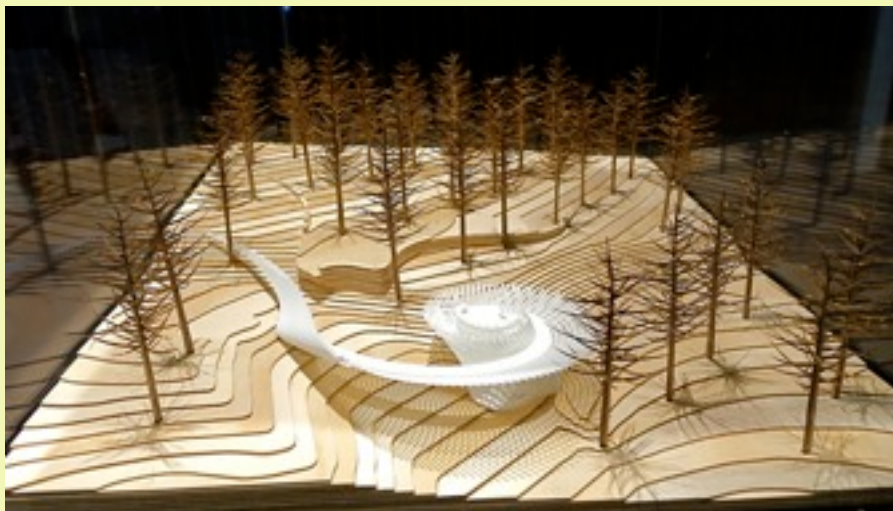
*Paul Moran (in the wheelchair) at the Friends volunteers' function in the Village Centre on 8 December 2014. Paul's wife (Glynnis) is in the floral dress, talking with Arboretum Guides (Janet and Mac).*



## Dates for your diary

13 October	<b>Friends' General Meeting</b> at ActewAGL House 5:30 to 7:00 pm
26 October	<b>Friends' Talk Series</b> at Margaret Whitlam Pavilion 6:30 to 7:30 pm
21 November	<b>Voices in the Forest concert</b> in the Arboretum Amphitheatre 5:30 to 9:30 pm
28 November	<b>Friends' Christmas Lunch</b> in the Himalayan cedars from 12:00 noon

# FOREST TALK



## REAL YELLOWWOOD PLANTED IN CENTRAL VALLEY

On 28 July 2015, His Excellency Dr Jakaya Mrisho Kikwete, President of the United Republic of Tanzania, and Her Excellency Mama Salma Kikwete planted a *Podocarpus latifolius* (real yellowwood, previously known as broad-leaved yellowwood in Arboretum listings) in the Central Valley. They were accompanied by Shane Rattenbury MLA, Minister for Territory and Municipal Services, who was representing the ACT Chief Minister.

This tree was chosen for this ceremonial planting because it is native to Tanzania and parts of southern and eastern Africa. It is a slow-growing species, but is frost hardy and can reach a height of 30 m. It has attractive, pale-green, new leaves so has become popular for large gardens. The timber is hard and yellow and was once the most frequently used timber in South Africa. Now it is scarce and furniture made from it commands high prices.

The Arboretum's Forest 29 is not yet planted, but is scheduled to contain this species.

## EXCITING INSTALLATION PLANNED FOR FOREST 41

The few of us that braved the elements to attend Rolfe Hartley's talk in the Margaret Whitlam Pavilion on 24 August, found it very interesting and acknowledge that Engineers Australia's 'Freefall Experience Design Ideas Competition', launched in 2013, netted a very exciting winning entry. Called 'Freefall', this design by Bligh Tanner (Queensland), is based on the Cochlear implant. Engineers Australia are currently seeking funds for construction and hope this unique structure will be in place for their 100th anniversary in 2019.

## JOCELYN PLANTS A TREE IN THE FRIENDS FOREST

On 17 September 2015, our ex-Chair, Jocelyn Plovits, planted a drooping sheoak (*Allocasuarina verticillata*) in Forest 100. This ceremonial tree planting was held in recognition of Jocelyn's contribution to the Arboretum. This was quite unlike all other tree planting ceremonies in that Jocelyn talked to her tree to encourage it on its way.



There was short notice of this event, but a sizeable crowd of Friends attended. Sherry McArdle-English (the Friends' first Chair) spoke of the early days of the Friends and how Jocelyn was always there, right from the start, working for the Friends and the Arboretum. At left, Stephen Alegria, the Arboretum's Executive Manager, is speaking to the assembled gathering.



## TINY NESTS IN THE TRIDENT MAPLES

In August, the Friends' Tree Monitoring sub-group were working in Forest 83 and noticed several of these tiny nests. Nests are easily spotted in winter when the trees are bare.

Does anyone know which species of bird made these?





Tony Lawson reading from his notes as we progressed through the ANBG on 16 August

## ARBORETUM SPECIES GROWING IN THE ANBG

Tony Lawson led a walk through the Australian National Botanic Gardens for members of the Friends. The focus of the walk was the 25 species the ANBG and the Arboretum have in common. Nearly all their specimens were much more mature than the Arboretum trees but there were also genetic variations and differences in growth and shape, probably due to more shade and competition from other trees. Also, it was a reality check to see how large some trees can grow.



## A GARDEN AMIDST THE HIMALAYAN CEDARS

... and what a setting for a garden!

This patch of native flora is located just beyond the lookout in Forest 11. Members of the First Canberra Gardening Club plant and maintain the rocky knoll in partnership with the Arboretum. They are having some success with several native plants multiplying or re-emerging. Recently *Wurmbea dioca* (early nancy) was discovered flowering there, after being absent for several years.



## AN OUTDOOR CLASSROOM IN THE CORK OAKS

This is Heather Tregoning, the Arboretum's Education Co-ordinator, with a class from Ainslie Primary on 1 September. The class was very attentive and behaviour was excellent. Hundreds of children are visiting the Arboretum, learning about the trees and their associated wildlife—they must surely gain very positive memories of the Arboretum from such an experience.

## A CO-OPERATIVE RED RUMPED PARROT

This male Red Rumped Parrot was in the mesa oaks—they are now quite prolific at the Arboretum. This one seemed particularly bold and was happy to have his photo taken from both sides so that we can fully appreciate all his beautiful colours.



## SPRING HAS SPRUNG!

The Yoshino cherries were in full bloom on 27 September (when this photo was taken). This year, flowering occurred more than a week later than in previous years.

PHOTOS: LINDA MULDOON

## MEMBERSHIP APPLICATION FORM

Please complete this form, **OR** go to [www.arboretumcanberra.org.au](http://www.arboretumcanberra.org.au) where you can join online and make a secure payment.

Yes. I/we wish to join the Friends of the National Arboretum Canberra Inc.

1. Title ..... First name .....

..... Last name .....

2. Title ..... First name .....

..... Last name .....

Postal address .....

.....

..... Postcode .....

Email address .....

I agree to receiving notices by email YES/NO .....

Telephone (h) ..... (w) .....

**Please remember to tell us about changes to your contact details**

Date .....

Please circle your relevant membership category/parking voucher request:

Single	1 year \$35	3 years \$95	5 years \$155
Household	1 year \$40	3 years \$110	5 years \$180
Concession	1 year \$20	3 years \$55	5 years \$90
Association or club	1 year \$60	3 years \$160	5 years \$270
Corporate Friend	1 year \$2000	3 years \$5400	5 years \$9000

Friends' annual parking voucher \$25 Reg. No. ....

Total payment ..... Please circle your method of payment

Cash    Cheque    Direct deposit

(cheques must be made payable to Friends of the National Arboretum Canberra Inc.)

Post membership applications to:

**The Secretary, Friends of the National Arboretum Canberra Inc.**  
**PO Box 48, Campbell, ACT 2612**

Direct deposit details are:

WESTPAC, Petrie Plaza, Canberra, ACT

Account—Friends of the National Arboretum Canberra Inc.

BSB No. 032719 Account No. 375379

(when making a direct deposit, please record your name so that your membership can be verified)

## Friends of the National Arboretum Canberra Inc.

### Contact

You can contact us via email at [friends@arboretumcanberra.org.au](mailto:friends@arboretumcanberra.org.au) or visit our website at [www.aboretumcanberra.org.au](http://www.aboretumcanberra.org.au) or by phone during business hours on 0406 376 711

### Office bearers

Trish Keller OAM (Chair)  
Jennie Widdowson (Deputy Chair)  
Del Da Costa (Secretary)  
Richard Bear (Treasurer)  
Colette Mackay (Donations and  
Sponsorship Manager)

### Council members

Max Bourke AM  
Kathryn Cole (Guides Co-ordinator)  
Cherie McLean (Social Media Manager)  
Linda Muldoon (Publications Editor)  
Lainie Shorthouse (STEP Representative)  
Mike Woolley (NBPCA Representative)

The Council (all of the above) meet on the second Tuesday of each month

### Life members

Max and Margie Bourke  
Roger Hnatiuk  
Sherry McArdle-English  
Linda Muldoon  
Jocelyn Plovits

### Honorary member

Jon Stanhope AO

### Patron

John Mackay AM

### Newsletter

The newsletter is published quarterly. Please contact Linda Muldoon, the editor, by email on [lindaon@grapevine.com.au](mailto:lindaon@grapevine.com.au) if you would like to contribute an article, news or photos. Decisions regarding what content is published are determined by the Chair.

*The Friends thank the ACT Government, ActewAGL, Yarralumla Nursery, Murrays Coaches, Supabarn, Ginger Catering and Elect Printing for their support*

