the Propagator

International Plant Production Society Newsletter ^C Summer 2025/26 Issue Number: 81



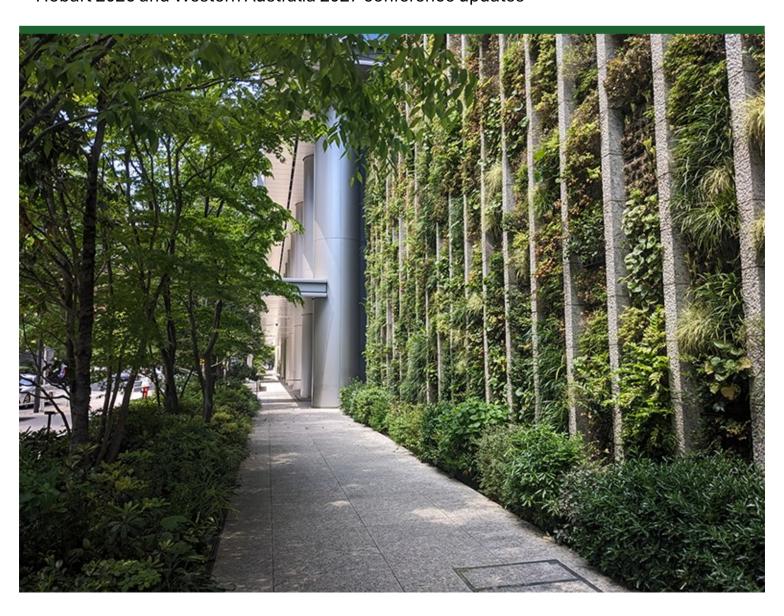


THIS EDITION:

IPPS Kangaroo Island Visit

Meet the new Hort Journal Editor

Hobart 2026 and Western Australia 2027 conference updates



PRESIDENTS REPORT

It has been a long time since we met in Cairns this year. It was a great conference with a more academic flavour. Lots of great knowledge and networking in a tropical climate. Well done to Jose and his team!

One thing that was apparent at this years event was a much wider range of ages and industries. It is great to see this as it is only through the presence at conferences of all ages and experiences that the event can achieve its aims. We need to have this spread to ensure that we can retain the amazing experience and knowledge in the senior members of our industry have built up. Also to extend this knowledge by those actively working in leadership roles in the industry and finally to develop another generation of people with enquiring minds to challenge it. It is through knowledge and learning that our industry can continue to prosper.

This year we have lost a few good minds and early founders of IPPS and Australian horticulture and I worry some of their experience and understanding has also been lost. I see IPPS as having a role of ensuring this loss is kept to a minimum. Through our conferences, our newsletters and our website all of which reach across the globe we should be able to make sure the knowledge is passed on.

I have a fear, and am already seeing it happen, that too many people will use AI to answer all their plant questions. This will stifle thought and research but will also promulgate errors and inconsistencies. I have tested it many times and the answers, at best, are vague and generalised and at worst blatantly wrong. Several times I have gone back and asked the same question in a slightly different form and received a different answer. One time I kept going back until I had an answer that was nearly correct. I did this as I knew what the answer should be, but what will happen when a person legitimately asks a question to develop their work?

We have had two resignations from the board in the last few months. Josh Waterworth has had to leave due to accelerating work commitments. He was the convenor for the 2028 conference in SE Queensland. However, Zoe Williams has agreed to take on this role with Pam and myself making up the core committee. The other resignation was Sabine Suess from WA. Sabine has stepped down for personal commitments, but we are hoping she will find time to return in the not too distant future.

Angus Stewart and his team of Vander Staays are working hard to pull together the 2026 conference in Hobart in May. Last Tuesday in May with a preconference tourn starting on the Saturday. All at the Old Woolstore in Hobart CBD so put the dates in the diary and get your booking in as soon as the registration form comes out. Also put aside some time in September 2027 for our International IPPS conference in WA. It is in spring so we can all get a chance to see the amazing WA wildflowers.

IPPS Australia is starting to rebuild membership as we focus on the benefits of being part of an organisation that promotes the sharing of knowledge and also gives its members the opportunity to visit, meet and discuss with like-minded people from around the world. Please ask a colleague or friend (or even both) to attend in 2026 and to join our great Society. We will all benefit.

Thanks to Lisa for taking on the role of Newsletter Editor and pulling this edition together. If you have attended any interesting events, please write a short note about it and send to Lisa as I am sure your fellow members would also be interested. Also, if you are working on any unusual plants or production methods please write a short report, as again we will all be interested.

Looking forward to seeing you all in Hobart in May.

Clive Larkman

EXECUTIVE OFFICERS REPORT

Well Christmas is upon us once again. I wish everyone a 'Very Merry Christmas and Fabulous New Year.'

Stay safe and well over the Christmas Season.

IPPS OFFICE

Even though the IPPS Office slows down at this time of the year, I am still kept busy tending to general office and in-house duties.

Membership Subscription Renewal 2026



Membership Renewal Notices will be sent out throughout the months of December and January 2026. Cred-

it Card or EFT are the preferred payment options.

2026 HOBART CONFERENCE – 54th IPPS Conference, Old Woolstore Apartments and Hotel –



'Seeds of Success' - Tuesday 26th to Friday 29th May 2026 – make a note of this date in your diary and calendar.

Conference registration forms, along with information, will be available for downloading shortly on the International website: www.ipps.org

CONTACT DETAILS

To ensure office records are kept *up* to date I would appreciate it if members could please notify me of any changed contact details. In particular, if you have changed your telephone provider recently, *please* remember to forward your new email address onto me at pam@ipps.org.au

I look forward to seeing you all in Hobart 2026!

Pam Berryman

INTERNATIONAL DIRECTORS REPORT

Since the last meeting of the Australian Region, the international board met by Zoom in September as well as a sponsorship working group meeting and long-range strategic planning group reforming. So more about outcomes from these after recommendations are put before the international board in December.

At Cairns we agreed on our nomination for the 2027 Award of Honor. After seeking clarification of the SOP regarding this potential nomination for International Award of Honor in 2027 the consensus was that we should proceed with the nomination to the board for endorsement.

There will be information coming out regarding membership renewals soon.

International Tour Update 2026

Eastern Region aims to have the final budget ready to present in the December International Board Meeting. Brie Arthur was hired to assist in planning. Registration will open around January 16th through April 1st, 2026. The committee is currently creating a communication plan for promoting the tour. There has been a change regarding reimbursement for the International Tour planning representative and that instead the region will be responsible for repaying International once the tour concludes. This does not affect us in 2027. The International editor reported in September to the board that he had not received any papers for 2025 yet.

Regional Conferences are planned around the world for 2026 as follows:

- ♦ South Africa: March 3rd 5th
- New Zealand: April 30th May 3rd
- Australia: May 26th − 29th
- Western Region NA: TBA
- ◆ Eastern Region NA: September 21st 24th, during International Tour
- ◆ Europe: likely October 7th 9th
- Southern Region NA: October 18th − 22nd

Wishing you all a very happy Christmas and New Year,

Bruce Higgs

VALE JOHN TEULON

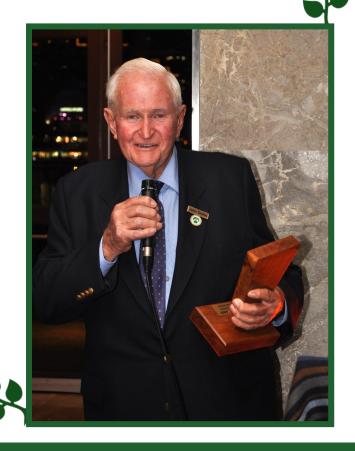
It is with deep sadness we announce that John Teulon passed away on 5th July 2025.

John was one of the founding members of the Australian Region of IPPS. He served as just the second president of our region, from 1975 to 1976. He was the third member to receive the Australian Region Award of Honor in 1993. John holds the distinction of being the longest serving Australian IPPS member, by virtue of him having joined the Eastern Region of North America long before the Australian region was founded.

John had a distinguished career as head propagator for the famed Swanes Nurseries in Ermington, and later in Dural. He was instrumental in introducing a number of popular plants to the Australian market, and he was the propagator of many rare plants for his local botanic gardens.

Aside from his excellence as a propagator, John was a brilliant teacher of the craft. In his time, he mentored many propagators who themselves went on to become lifelong propagators. It was this inherent will to share his

knowledge and experience that embodied the societies 'seek and share' motto. Our thoughts are with his wife Judy and his family.



MESSAGE FROM THE EDITOR

As 2025 draws to a close, the time comes to take stock of the events and achievements of the year whilst looking to the coming year to plan new events and continue or create new goals.

This year has afforded me some wonderful opportunities in my career, such as becoming editor of The Propagator. I am ever grateful to the IPPS for yet another amazing chance to better myself and to exercise my writing and editing skills. I look forward to creating many more editions of the newsletter in the new year and welcome any feedback, suggestions and submissions from my fellow members.

I wish every IPPS member very happy holidays and can't wait to catch up at the Hobart 2026 conference.

Best,

Lisa Wightwick

Solutions to crossword on page 14

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MEET HORT JOURNAL'S NEW EDITOR

It is an honour to be able to introduce myself to you as the new editor of Hort Journal Australia, and only its second in its 17-year history.

I never expected to be a writer, let alone an editor! I suspect that Karen Smith, our recently retired editor, gently coaxed me into this position without me realising. Karen's contribution to our industry probably needs no explanation to you and your fellow IPPS members. She received the 'Edward and Mary Bunker Award' in 2024 for her outstanding contribution to demonstrating the IPPS motto 'To Seek and To Share' for the betterment of the industry at large.

My own writing career began just after I completed my Master of Urban Horticulture at the University of Melbourne's Burnley campus. I had an interest in indoor plants, so I started writing the monthly Interior Plantscaping feature in Hort Journal. This led to a gig as a freelance writer for the then Nursery and Garden Industry Australia (NGIA), which turned into a role as Communications Coordinator after that organisation became Greenlife Industry Australia (GIA). In the meantime, I had set up Inwardout Studio, an integrated building and landscape design business, which I continue to run with my partner today. Given my focus on garden design, Karen suggested I start writing Hort Journal's Landscape feature instead, which I continue to write to this day.

Over the years, I have cultivated strong practical knowledge of horticulture through roles in retail and production nurseries, garden maintenance, and an internship with leading green infrastructure specialist, Fytogreen. These experiences have given me firsthand insight into the challenges facing other horticultural professionals, particularly the urgent need to embed sustainability at the core of our practices as we adapt to anthropogenic climate change.

I have also taught in environmental and geographic subjects at the University of Tasmania and currently tutor in sustainability and landscape design. Earlier in my career, I worked in local government, developing and delivering community-based environmental sustainability programs in Melbourne - experiences that have shaped my systems-thinking approach to sustainability.

I will be attending the IPPS conference in Hobart in May – please do come up and say hello! I would love to hear and share your stories in our pages. My hope is that together we can grow a publication that informs, challenges and celebrates our horticultural industry here in Australia.

Gabrielle Stannus



Gabrielle Stannus, new editor of Hort Journal Australia (Image: Frederic Courbet)

IPPS JUMPS INTO ACTION ON KANGAROO ISLAND

This writer has been threatening to visit Kangaroo Island for years, and with some encouragement from lifetime island resident Michelle Haby (pictured below), finally got there in November with fellow IPPS member Dermot Molloy from Royal Botanic Gardens Victoria and Perth based Gambara project manager, Bree Howard.

Michelle is the island Botanist, a passionate native plant producer and Accredited Native Vegetation Consultant. She has commenced construction of a new nursery, and we appreciated a tour of her ambitious project and her substantial lakeside land holding.



We were able to experience her peerless native species knowledge in the course of field trips to the Flinders Chase National Park and other remnant vegetation sites. We joined Michelle and a group of her volunteers on a seed collection/bagging expedition to the Cape Borda lighthouse area on the far west coast, focussed on threatened species *Asterolasia phebalioides* (pictured right) and *Olax obcordata*.



Michelle introduced us to the KI Native Plant Nursery, run by Landscape Board Kangaroo Island and producing about 50,000 plants per annum for local revegetation projects and gardens.

The nursery is managed by Jo McPhee with team members Erin and Sandra. We did a bit of usual IPPS public relations, and they seemed keen to consider involvement in upcoming Hobart and Perth events.

The flora of the island is outstanding with about 1000 native species, with 70-odd endemic to the island.



Just as brilliant is the landscape and coastal rock formations, beaches and abundant wildlife in the form of koalas, goannas (pictured below), echidnas, seals and platypuses. The birdlife is also prolific as are the roos, but for bush lovers, revel in the fact that there are no kangaroo ticks on the island unbelievable! (But the bull ants are there to fill the



gap.)

We experienced great tourist facilities, wineries, distilleries, street art, challenging trails and staircase/boardwalks. The only downside is roadkill, needing to drive carefully and keep off road at night.

Over a cool beverage we contemplated the possibility of an IPPS South Australian and Kangaroo Island conference event. After this experience, I say bring it on! Come on SA members, ready when you are!



INFORMATION SHARING: NURSERY PRACTICES

WA member Sabine Suess has provided The Propagator with a document she drafted entitled 'Environmentally Sustainable Practices in the Nursery'.

Sabine is a Team Leader and Plant Yield Coordinator at the Natural Area Nursery in Perth. The document was dictated by Sabine and adapted to digital form via AI by Natural Area Marketing Coordinator, Jade Forward.

The document summarises nursery water management, recycling and reuse, hygiene and seed propagation systems at the nursery.

It is a brief document that may be of use for others to review their practices or as a staff training or discussion prompt.

For a copy please contact: david@naturalarea.com.au

DAVID HANCOCK
FOUNDER & CONSULTANT



0429 095 850 57 Boulder Road, Malaga, WA 6090

Have a document of interest, protocol or factsheet you'd like to share with the IPPS community? Contribute to the society ethos of 'Seek and Share' by submitting your piece to The Propagator newsletter at theippspropagator@outlook.com.



UPCOMING EVENTS











International Plant Production Society 54th Conference

Seeds of Success Hobart 2026

Old Woolstore Apartments & Hotel

Pre-conference tour Saturday 23 May to Tuesday 26 May

Get ready to explore some of Tasmania's most iconic spots! Derwent Valley, Mt Field National Park, the Peninsula, and the Tasman Island boat tour, and industry-based tours and visits along the way.

Conference Tuesday 26 May 2026 to Friday 29 May

Alongside exciting tours and hands-on experiences, we've lined up dynamic presentations from leading experts in genetics, biosecurity, breeding, and more. Whether you're passionate about horticultural science or just keen to learn, these sessions promise fresh insights and thought-provoking discussions. The week kicks off on Tuesday evening with a reception at Government House, followed by hands-on demos on Wednesday and a mix of inspiring speakers and industry tours on Thursday and Friday.

Registrations open 1 January 2026

https://aus.ipps.org/event/ipps-54th-annual-conference-hobart-2026













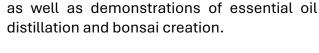




AN UPDATE FROM THE CONFERENCE ORGANISERS

Next year's conference in Hobart is taking shape with the registration form about to go out to members. We are trying to make this conference a much more interactive experience by altering the format to include more workshops and hands on events.

For those intrepid souls who cannot get enough IPPS love there will be a pre-conference tour from Saturday May 23 to Tuesday May 26, 2025. This tour will be a mixture of horticultural and tourism activities. There will be a welcome dinner on the night of May 23rd, then Sunday we will be out and about to the west of Hobart at Mt Field National Park and nearby horticultural enterprises. Monday we will be on the Tasman Peninsula taking a tourist cruise and lunch at Premaydena Hill Cellar Door. Tuesday the pre-conference tour will continue in the morning, with a visit to a famous Tasmanian garden, Ashfield





Meanwhile, on Tuesday we will have the traditional golf afternoon, after which we will welcome conference delegates with an evening reception at Tasmania's government House in its picturesque setting on the Derwent River. Our accommodation will be at The Old Woolstore Apartment Hotel in Hobart, a central location that is adjacent to the city and harbour with all the facilities that go with being in the CBD.

Our first full conference day will be a practical day to be held at Westland Nurseries near Hobart. All of our sponsors have been invited to present workshops to showcase their products and services. This will also allow one on one interaction with exhibitors. We are also planning something completely different on Wednesday with a hands on interactive a 'design sprint', where we will form teams to come up with solutions to plant production problems.

Thursday we will be doing things a little differently again by starting the day with a tour of a couple Tasmanian horticultural businesses, Tas Botanics medicinal Cannabis farm and Materials Institute while Thursday afternoon will be a series of presentations by speakers at the Woolstore followed by the gala dinner that night. Friday will be another series of presentations at the Woolstore in the morning fol-

lowed by a tour of Tiballs Nursery and the Royal Botanic Gardens Tasmania.

For those who choose to extend their stay post conference activities such as Salamanca Markets and Mona beckon. We look forward to extending our Tasmanian hospitality to our wonderful members.

Cheers,

Angus Stewart



Saturday 30th May Post Conference Activities - Mona, Pennicotts and more!

SPONSORSHIP AND TRADE DISPLAY OPPORTUNITIES STILL AVAILABLE

Contact Tony VanderStaay to discuss options available.

For more information email:

tvanders@westlandnurseries.com.au

pam@ipps.org.au

SPONSORSHIP OPPORTUNITIES - APPLY NOW

Don't miss these fantastic opportunities that offer the successful candidates the chance to broaden their horticultural horizons and build invaluable networking skills and industry connections. If you're passionate and keen to learn, read ahead to see if you may qualify for one of the three initiatives below.

ROD TALLIS YOUTH AWARD

The Rod Tallis Youth Award is presented annually to the most commendable achievement by a person over 18 years of age who is working or studying in horticulture.

The winner will have completed a research project, written an article or series of articles or developed a new process or product. They will then write up their work in a paper to be presented at the next IPPS conference.

The paper will be assessed on issues or clarity, originality and relevance to the industry. The achievements of the applicant to date will also be reviewed.

The successful applicant will have their airfare, accommodation and conference registration paid for. They will also receive one year's membership to the IPPS and a commemorative plaque.



Many previous winners have gone onto establish very successful careers in horticulture around Australia. If you fit the above criteria, we encourage you apply by scanning the QR code to the left.

SIX PACK

IPPS Australia offers the opportunity for 6 young propagators to attend the 2026 IPPS Conference in Hobart, Tasmania from Wednesday 27th to Friday 29th May 2026, at no cost!

If you have a passion for horticulture, would like to meet the best in the field and learn plenty at the same time then this is for you. In return for conference registration, accommodation and travel assistance, we ask that you support the conference organisers to make the event run as smoothly as possible.

For more information, scan the QR code to the right or visit https://aus.ipps.org/about-ipps/awards/





To download the application form scan the QR code to the left.

SOUTH AFRICA $^{\sim}$ EXCHANGE PROGRAM

IPPS Australia and IPPS Southern Africa offer the opportunity for a young propagator from Australia to visit South Africa and be hosted by a local nursery industry family. They will work with South African propagators as well as visit gardens and other places of botanical interest. The South Africa conference is being held in Cape Town from 3rd March to 6th March 2026.

You will then attend the IPPS Conference, Hobart from Tuesday 26th to Friday 29th May 2026, for no charge!

For more information visit https://aus.ipps.org/about-ipps/awards/

(QR code as above) and to apply, scan the QR code to the right.



PERTH INTERNATIONAL 2027 EARLY PLANNING WELL ADVANCED — SAVE THE DATES

The hardworking committee tasked with delivering the first ever international conference and tour in Western Australia is hitting its' straps early to assist overseas and interstate members with trip planning. To summarise what has been developed:

- The dates and events outline is published in this Propagator issue and websites updated.
- The Vines Resort has been locked in as the conference venue and on line booking link established. We will advise when bookings can begin.
- The long and short tour routes have been summarised and some coach/botanical captains appointed.
- Quotes from bus companies have been sourced.
- Tentative bookings for accommodation for the long and short tours have been made.
- Final route planning is scheduled for early September from which tour registration costs can be worked.
- Sponsorship prospectus is complete with numerous cost and benefit options.

- Significant sponsorship has already been raised, and a comprehensive list of additional potential sponsors will be pursued.
- ◆ The route plan for the Mid-West wildflower post conference tour is nearing finalisation.
- A cross support arrangement with NGIA/ Greenlife is being developed.

It is planned for the complete conference and tour package document to be available by mid year 2026. Save the dates now!

Early enquiries welcome to committee:

David 0429 095 850 david@naturalarea.com.au

Natalie 0427 383 020 muchtree@nw.com.au

Sabine 0418 365 339 sabinesuess@hotmail.com

Neroli 0427 050 471 neroli@seedshed.com.au

Angus 0419 632 123 angus@gardeningwithangus.com.au

Peter 0413 695 830 peter@growiniovate.com

David Hancock





CYCAD 2026

13th International Conference on Cycad Biology

17th to 22nd August 2026, Sydney Australia





















WELCOME NEW IPPS MEMBERS

IPPS would like to extend a warm welcome to its new members who have joined in 2025. We hope our new members enjoy the camaraderie and information exchange within the IPPS community. Read on ahead for some of our newest members profiles.

From banking to bushland, Fabian Bleasel swapped spreadsheets for seedlings and now teaches the next generation of horticulturists.

Dear Members,

Like many of you, I've been bitten by the horticultural bug — and despite my best efforts, there seems to be no known cure. After reading the July 2025 edition of *Hort Journal* and learning about the success of the 53rd IPPS Conference in Cairns, I decided I wanted in on this community of plant people. A few enquiries later, here I am — a proud new member of the International Plant Propagators' Society (Australian region).

My path into horticulture wasn't exactly straight. For over 20 years, I worked in banking and finance — hardly the natural habitat for someone who'd rather be out among seedlings than spreadsheets. In 2012, I finally followed my passion and enrolled in a Certificate II in Horticulture, which quickly grew into a Certificate III, and then into my own business, *Fab Gardens*, specialising in gardening and landscape work. From there, one qualification led to another — because horticulture, like pruning, always seems to encourage more growth.

These days, I teach Horticulture at TAFE NSW in the Sports Turf Management faculty. Helping apprentices find their feet (and their roots) as they launch careers in turf management is enormously rewarding. I also teach horticulture skills to inmates in correctional facilities across NSW. While the settings couldn't be more different, the joy of watching people discover they can nurture and grow something — whether it's turf, trees, or themselves — is the same.

Like many others, the COVID lockdowns made me rethink my career. With gardens closed by rain and

restrictions, I realised I needed a role as resilient as couch grass in summer. So, I completed my Certificate IV in Training and Assessment, and for good measure, began a Bachelor of Horticulture with Charles Sturt University. After four years, I've chosen to exit with a Diploma of Horticulture and set my sights next on a Certificate III in Irrigation Technology — because, after all, what propagator doesn't like a good watering system?

Through teaching, business, and study, I've met countless passionate people who remind me daily why horticulture matters. I'm thrilled to join IPPS and can't wait to contribute, learn, and (hopefully) attend future conferences.

After all, propagation is about creating new beginnings — and I'm excited to see where this one grows.

Warm regards,

Fabian Bleasel

Hi Members.

This is my life in plant propagation. Since being a young girl growing veggies and fruit with my father for the family on the farm, this was always a deep passion. I've worked in the industry from the age of 16 in a plant nursery where they would grow seedlings to sell in newspaper, and was then employed for many years as a propagator for Aylott's Wholesale Nursery of indoor plants. After this I set up a nursery called Colourcade Nursery in mid 1986 where we produced flowering crops—chrysanthemums for Mother's Day and poinsettias for Christmas, selling at Sydney trade day and beyond. Whilst running the business, the local Tafe was looking for teachers in horticulture and I was asked to apply and was successful.

I juggled family, business and teaching propagation as well as many other subjects for over 30 years.

To this day I am still rebuilding my nursery after the fires in 2019, where I lost a 40-year collection of rare plants. My passion still remains, so a new propagation house producing rare plants has been built, while repairs to a glasshouse are ongoing but near completion and shade areas have been rebuilt. The nursery area is reduced compared to its prior history.

This next era I'm looking forward to more freedom and enjoyment of propagation and growing plants on. Life brings you ups and downs but this industry grounds you, so I'm so grateful I get to do what I love!

Regards,

Donna Mawby

Dear Members,

I have been working as a propagator for the past three and a half years, spending the last six months at the Royal Botanic Gardens, following three years at Kuranga Native Nursery. My passion lies in Australian native plants, though I am equally excited by anything unusual or out of the ordinary.

I have a particular interest in innovation around sustainable growing media and am eager to explore new approaches that support both plant health and environmental responsibility. My goal is to continue learning as much as possible throughout my career, and I'm looking forward to the opportunity to connect, share knowledge, and be inspired by the incredible expertise within the IPPS community.

Thank you for including me in this edition of the Propagator!

Sincerely,

Kaylah Mackley

Horticulturist (Nursery) Royal Botanic Gardens Victoria Kaylah.Mackley@rbg.vic.gov.au

CAREER OPPORTUNITY

Colourwise Nursery is a leading wholesale production nursery, located at Peats Ridge, Central Coast, NSW. We are currently looking for experienced, enthusiastic **Propagation Manager** who has a passion for horticulture, a skill for propagating plants and who is happy working in a team environment.

The **Propagation Manager** role will require the individual to manage a small team to cut, prepare, stick and maintain cuttings for the nursery.

It is expected the candidates have the ability to motivate and help a team of experienced nursery staff to produce quality plants and maintain current best nursery practices.

Successful applicants will possess the following attributes:

- Good communication skills, both written and verbal
- Reliable, punctual, polite with good presentation
- The ability to learn and follow directions
- The ability to work in a team based environment
- Excellent work ethic and highly motivated with the ability to think for themselves.
- Physically fit and healthy, prepared to be hands-on
- Own transport and current drivers licence are essential

Additional skills which are taken into consideration, however not essential:

- Horticultural or industry experience preferred but not essential
- Current forklift licence
- Current First Aid Certificate
- Chemcert certified

Preference will be given to those who have worked successfully in a team environment and possess the afore mentioned skills

An attractive remuneration will be negotiated according to experience.

If you are seriously interested in a career with one of the industry leaders and feel you can add value to the Colourwise team, please forward your letter of introduction, CV, including two referees via email to:

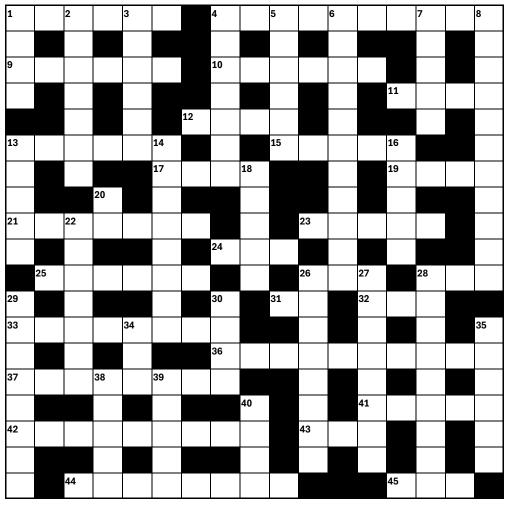
malcolmt@colourwise.com cambellt@colourwise.com





HORTICULTURAL CROSSWORD **CHALLENGE**







Want to contribute to our society newsletter? The Propagator, is on the lookout for interesting submissions, on any topic relating to horticulture.

We welcome all skill levels of writers and can provide advice and support throughout the cess. Articles would ideally be between 400-1500 words and submitted in a Word format with some high resolution images to accompany the piece.

Submissions could be about horticultural news, events, technical projects, plant profiles and so much more!

For more information, or to make a submission, please email Lisa Wightwick at:

theippspropagator@outlook.com

ACROSS

- 1 Essential micronutrient vital to photosyn- 37 Annual or short-lived perennial plants thesis
- 4 Adapted to grow in salty conditions
- 9 Compound essential in photosynthesis: sign dioxide
- 10 Regenerate foliage
- 11 Latin for 'within the living'
- 12 Soil composed of sand, silt and clay
- 13 Flower part which produces pollen
- 15 Fungus that infects various cereal plants
- 17 Hardy plants: care
- 19 Mound, compost -
- 21 Plants unique to a region
- 23 Latin for 'in glass'
- 24 Pertaining to the environment
- 25 Alter ego of DC Comic character Dr. Pamela Isley: - Ivy
- **26** Low-lying or riverside meadow
- 28 Cylindrical plant receptacle
- 31 Chemical symbol of zinc
- **32** Government environmental regulatory
- 33 Preserved plant sample for research and 13 Deciduous tree with gold 'quaking'
- **36** Plant growth regulators that stimulate

- shoot growth and multiplication
- characterized by red catkin-like flowers
- 41 Straight garden path used in formal de-
- 42 Section of stem between nodes
- 43 Cutting type taken from terminal shoots 27 Tropical American tree whose fruit is
- 44 Crucial nitrogen source for plants
- 45 Coniferous tree with red berries and nee- dye dle-like leaves

DOWN

- 1 Native South American plant famous for containing cocaine
- 2 White, lightweight, porous medium com- brina, silver plant
- 3 Develop gradually
- 4 1982 comedy musical about a sentient 38 Genus of rhubarb carnivorous plant: Little Shop of -
- **5** Edible product of the pea family
- **6** Creation of new plants
- 7 Minute winged insect pest
- 8 Organelle in which photosynthesis occurs
- 14 Kidney shape (of leaf)

- 16 Pointy projection of plant stem
- 18 Genus of the Joshua Tree
- 20 Chemical symbol for Iron
- 22 Sticky carnivorous plant
- 26 A type of leaf margin that is rolled in-
- used for flavouring drinks and making black
- 28 Leaf surface covered with minute, rounded projections
- 29 Ancient gardening art of training trees to grow flat against a support
- 30 A common name of Tradescantia ze-
- **34** Acronym of common auxin
- 35 Perennial daisy-like flowers
- 39 Common name of Ligusticum cana-
- 40 The cinchona tree features on the coat of arms of this South American country

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