## Protected Cropping Australia Conference



28-30 JULY 2025

ADELAIDE CONVENTION CENTRE

Growing profitably and sustainably

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## PROGRAM Growing Profitably and Sustainably



<sup>\*\*</sup> Program subject to change at the discretion of the PCA Conference 2025 Program Committee \*\*

Monday, 28 July 2025			
9.00am – 2.00pm	Exhibitor Bump In	Hall H	
From 2.00pm	Registration and Exhibition Open	Hall H	
2.00pm -3.30pm	Tomato Brown Rugose Fruit Virus Workshop Chair – Andrew Tout	Hall H	
3.30pm - 3.45pm	Break		
3.45pm – 5.30pm	Ag Tech & Startup Alley Chair – TBC	Hall H	
5.30pm – 7.30pm	Welcome Reception	Hall H	

	Tu	esday, 29 July 2025		
	Registration Open (arrival tea and coffee)			
07.00am – 8.00am	Breakfast – Keynote Speaker: Warren Davie			
From 8.00am	Exhibition Open		Hall H	
8.30am – 8.45am	Welcome & Acknowledgement of Country (	(Des Dowling MC)	Hall C	
	Andrew Mcillwain (PCA Deputy Chair)			
8.45am – 9.00am	Opening Address:		Hall C	
	Zak Iqbal (PCA Conference Chair)			
9.00am – 10.30am	Keynote Panel Presentations & Panel:		Hall C	
	Levi Nupponen – Agrology Pty Ltd (F			
	· · · · · · · · · · · · · · · · · · ·	ven & Glasshouse Consultancy (Presentation & Pa	nel)	
	<ul> <li>Anna Drake – Rabobank (Panel)</li> <li>Chair – Andrew McIlwain</li> </ul>			
	Chair – Andrew Mchwain			
10.30am – 11.10am	Morning Tea and Exhibition		Hall H	
11.10am – 12.45pm	Concurrent Sessions			
	Hall C	Hall A	Hall B	
	Ag Tech Innovation (Robotics, AI,	Climate, Energy & Renewables	Grower Workshop	
	Automation)	Climate control (incl. lighting)	Growing for Profit	
	Chair – Alastair McLean	DENSO	Chair – Graeme Smith	
11.10am – 11.30am	25 Artificial Intelligence and Agricultural	Session Sponsored by DENSO	Paul Omodei     Loui Numanana	
11.10am – 11.30am	25. Artificial Intelligence and Agricultural- Technologies in Protected Horticulture:	16. Engineering Sunlight for the Horticulture Industry	Levi Nupponen     3    3    Crawar Speckers	
	Trends, Challenges, and Opportunities	Amity Bliss, LLEAF Pty Ltd	• 2 – 3 Grower Speakers	
	Md Shahiduzzaman, University of New	Allity bilos, ELEAT T ty Eta		
	England (UNE)			
11.30am – 11.50am	43. Bioscout - Helping farmers see the	62. The underestimated importance of		
	unseen	controlled air movement through the canopy		
	Charles Simons, Bioscout Australia	for more active, more healthy and more		
		sustainable crops		
		Ton Habraken, Ludvig Svensson BV		
11.50am – 12.10pm	1. How is a Greenhouse AI built	21. Boosting crop yield in protected cropping		
	Paul Voutier, Ambit Robotics	systems with carbon		
		Amrutha Vijayakumar, University of New		
42.40 42.22	74 11	England, Armidale		
12.10 pm – 12.30 pm	71. Unpacking the findings of two recent	5. Optimal Climate Control in Greenhouses:		
	berry trials to improve traceability,	The Importance of Double Screens  Carmen Berkhout, Ridder		
		Currien berknout, niduer		

12.30 pm – 12.50 pm	consumer engagement and streamlining the cross-border inspection process  Greg Calvert, Freshchain  Grower Panel discussion - Growing	47. Smart Farm Management System:		
12.00 p.m.	Profitably and Sustainably (12.30 – 1.10pm)  Giacomo Pippo, Fresh at Heart  Jo Van Niekerk, Boomaroo Nurseries  Paul Millett, Invertigro  Angus Murray, Cann Group  Chair: Jack Mooney	Enhancing Efficiency and Sustainability through an Online Dashboard Mark Cardamis, UNSW		
12.50pm – 1.45pm	Lunch and Exhibition Open		Hall H	
12.50pm - 1.45pm	Young Researcher R&D Presentations (sponson Chair SP Singh	ored by Australian Society of Horticultural Scien	nce) Hall H	
1.45pm – 3.00pm	Concurrent Sessions			
	Hall C	Hall A	Hall B	
	Building Resilient Profitable Businesses Chair – Jack Mooney	Food Safety Chair – Michelle Mak	Grower Workshop Irrigation and Fertigation Basics	
1.45pm – 2.05pm	10. Unlocking the key drivers of business profitability Paul Omodei, Planfarm Donna Lucas	27. Meeting the Challenge: Navigating Increasing Sustainability Requirements in Food Safety Certification  Jane Siebum, Freshcare	Chair - Tony Bundock Bjorn Baker, Gakon Netafim Tony Bundock, Protected Cropping Australia Alastair McLean, Powerplants	
2.05pm – 2.25pm	46. Lessons from the Field: Sales Strategies for Building Profitability in Horticulture Georgia Stormont, Curious Georgia Coaching	12. Food safety risk management in protected cropping systems Sukhvinder Pal Singh, NSW Department of Primary Industries and Regional Development		
2.25pm – 2.45pm	53. Eating with your eyes  Terry Parsons, Envirotec Horticultural  Structures	Business Management & Labour Efficiency Chair – Julie Kreiger		
	Structures	23. Skilling the Way to Labour Efficiency, Navtej Bal, Ironwood Institute		
2.45pm – 3.05pm	34. Attracting multi-generational talent in a competitive world: How can protected cropping continue to encourage capable people into the industry? <i>Speaker TBC</i>	24. Protected Cropping Trends and Insurance Insights from Europe, Marie Groenhof, Greenhouse and Horticulture, Hagelunie, the Netherlands (pre-record)		
3.05pm – 3.35pm	<ul> <li>Tomato Brown Rugose Fruit Virus Panel Discu</li> <li>Dr Len Tesoriero, Crop Doc Consulting</li> <li>Jasper Verhoeven, Royal Brinkman</li> </ul>		Hall C	

	<ul> <li>Chris Millis, Flavorite Hydroponic Tom</li> <li>James Bertram, Rijk Zwaan Australia P</li> </ul>	PREW on Tomato		
	<ul> <li>Manus Thoen –75. Enza Zaden Hypersensitivity reaction as defence mechanism to ToBRFV on Tomato</li> <li>Chair: Andrew Tout</li> </ul>			
3.35pm – 4.15pm	Afternoon Tea and Exhibition		Hall H	
4.15pm – 5.30pm	Concurrent Sessions			
	Hall C	Hall A	Hall B	
	Chair – Steve Coventry  Session Sponsored by Syngenta	<b>Pollination</b> Chair – Zak Iqbal	Nutrition & Irrigation Chair – Daniel Robinson	
4.15pm – 4.35pm	11. Effective management of Tobamoviruses (Tomato brown rugose fruit virus & Cucumber green mottle mosaic virus) in greenhouse horticulture  Len Tesoriero, Crop Doc Consulting Pty Ltd	26. Evaluating stingless bees and flies as pollinators for glasshouse strawberries Claire Allison, Hawkesbury Institute for the Environment, Western Sydney University	3. WaterWise for the Future: Building Irrigation Capacity in Intensive Horticulture for Sustainable Growth in Coastal NSW Ewan Leighton, Local Land Services	
4.35pm – 4.55pm	15. Banker Plants in IPM: A Useful Tool But Not A One-Size- Fits-All, <i>Anita Marquart,</i> <i>Biological Services</i>	28. Pollination in protected strawberries - pollen requirement, alternative pollinators, and CEA environments Melissa Broussard, The New Zealand Institute for Plant and Food Research, Ltd	50. Benefits of nanobubble technology for protected cropping  Leon Power, Nanobubble Agritech	
4.55pm – 5.15pm	38. Genetic defence mechanism for tomato varieties Highly Resistant (HR) to ToBRFV Manus Thoen, Enza Zaden Australia	42. Sonication unzips floral anther trichomes boosting pollination and tomato fruit size Christopher Cazzonell, Hawkesbury Institute for the Environment, Western Sydney University	8. Smart fertigation: unlocking higher yields and sustainability in greenhouse cucumber production at different EC and K levels Sonali Koundal, Western Sydney University	
5.15pm – 5.35pm	6. Green and Clean: Mastering pest management and hygiene in horticulture Jasper Verhoeven, Royal Brinkman	30. Optimising honeybee pollination in protected apple orchards  Lisa Evans, Plant and Food Research	14. Economic And Environmental Gains from Sustainable Eggplant Fertigation Md Mazadul Islam, Western Sydney University	
5.35pm – 6.45pm	Invited Networking Grower Event – Light refr Sponsored by Exfoliators  EXFOLIATORS  Exponented Compiler Substrates	eshments served	Hall H	

	Wedr	nesday, 30 July 2025		
From 7.00am	Registration Open (arrival tea and coffee)			
From 8.00am	Exhibition Open			Hall C
8.30am – 9.10am	Plenary:			Hall C
	Tristan Kitchener, Kitchener & Partners Pty Ltd			
9.10am – 9.30am	Plenary:			Hall C
	Lee Stiles, Secretary, Lea Valley Growers Assoc	ciation UK		
9.30am – 10.30am	Plenary Panel - Understanding Consumer & Ro			Hall C
	<ul> <li>Tristan Kitchener, Kitchener Partners F</li> </ul>	Pty Ltd		
	<ul> <li>Lee Stiles (Virtual)</li> </ul>			
	Claire Mcclelland, Fresh Produce Allia	nce		
	Paul Millett, Invertigro			
	Chair –Tristan Kitchener			
10.30am – 11.10am	Morning Tea and Exhibition			Hall H
11.10am – 12.10pm	Concurrent Sessions	LI-II A	LI-II D	
	Hall C (Protected Cropping Research,	Hall A	Hall B	s and Tashnalasias
	Development Program) Hort	Sustainability & Waste Management Chair – Matt Plunkett	Emerging Crops and Technologies Chair – Elio Jovicich	
	Chair - Gordon Rogers Innovation	Chair – Watt Flurikett	Citali — Lilo Jov	ricien
	Session Sponsored by Hort Innovation			
11.10am – 11.30am	17. Introducing horticulture's new protected	76. Agricultural plastics – what is the future?	64. Strengthen	ing Northern Australia's
	cropping program: Growing horticulture	Anne-Maree Boland – RMCG	horticulture through protected cropping	
	through protected cropping innovation		pathways to ac	doption
	Gordon Rogers, Applied Horticultural		Elio Jovicich, D	epartment of Primary
	Research		Industries	
44.00				
11.30am – 11.50am	Panel Moderated by Gordon Rogers	29. Eliminating Single-Use Plastics in		he Australian native bush
	featuring:	Hydroponic Production: A High-Impact Shift from Plastic Pots to Ellepot Paper Pots	•	um centrale) for greenhouse
	Alvaro Vidiella (Costa)      Vin Madden (Claverita)	Darran Stone, Ellepot	production	Western Sydney University
	<ul><li>Jim Madden (Flavorite)</li><li>Folco Faber (Apex Greenhouses)</li></ul>	Durrum Stone, Ellepot	whichelle wax,	western sydney oniversity
	<ul><li>Ian Goodwin (Ag Vic)</li></ul>			
	<ul><li>Stephanie Tabone (AHR)</li></ul>			
11.50am – 12.10pm	Panel as above	83. Sustainability in protected cropping	63. Polyhouse	in the Lockyer shows Potential
12.10piii	43 43376	John Baker, Perfection Fresh Australia	for Sub-tropica	•
			•	auser, Department of Primary
			Industries	,

12.10pm – 12.45pm	<ul> <li>Sustainability – Challenges &amp; Opportunities if</li> <li>Ed George, Redpath &amp; Elite Tunnels</li> <li>Anne-Maree Boland, RM Consulting Office of the Steve Marafiote – Sundrop Farms (Patchair – Alastair McLean</li> </ul>	Hall C				
12.45pm – 1.45pm	Lunch and Exhibition	Lunch and Exhibition				
1.45pm – 2.45pm	Mixed Sessions Hall C	Hall A	Hall B			
	Medicinal Cannabis Forum Chaired by Angus Murray (Cann Group Limited) and featuring:  Ricarda Jost (La Trobe University)  Lennard Garcia-de-heer (Southern Cross University)  Matthew Dent (Cannabiz Australia)  Lydia Doherty (Green Farmers Aus)  Brad Gallard (Medtec)	Berries Forum Chair - Sandy Shaw  74. How can automated insect monitoring technology enable site specific berry pollination management? Alan Dorin, Monash University  79. Bioreactors: A Sustainable Solution to Nutrient Pollution Melinda Simpson, NSW Department of Primary Industries and Regional Development  78. Understanding "e-weights" (AQS) and how it instantly (and legally!) reduces giveaway Julian Horsley, A&D Weighing and Inspection	Grower Workshop Managing pests and diseases in the greenhouse Chair - Andrew McIllwain  Stephanus Malherbe, Biological Services  Steve Coventry, Bugs For Bugs  Eugene Chau, Rovensa Next  Jasper Verhoeven, Royal Brinkman			
2.45pm – 3.35pm	Concurrent Sessions					
	Hall C	Hall A	Hall B			
	Pollination & Pest Management Chair - Elio Jovicich	Energy Efficiency Chair – Tony Bundock	Mixed Themes Chair – Andrew Mcillwain			
2.45pm – 3.05pm	32. Development of the Hoverfly (Eristalis tenax) as a Complimentary Managed Pollinator Raylea Rowbottom, Seedpurity	4. A transition to green energy Sohum Gandhi, Enriva Pty Ltd	Managing pests and diseases in the greenhouse 52. Multi-Action 3-in-1 Insecticide, Miticide, and Fungicide: An Ideal Solution for Integrated Pest and Disease Management Eugene Chau, Rovensa Next			

3.05pm – 3.25pm	31. The use of Solitary Bees in Protected Cropping Katja Hogendoorn, the University of Adelaide	66. Climate screens: an indispensable tool for greenhouse growers to achieve more resilient, sustainable and profitable cultivation  Ton Habraken, Ludvig Svensson BV	49. Strengthening biosecurity measures to prevent diseases <i>Ivan Casteels, Roamtechnology</i>
3.25pm – 3.55pm	Afternoon Tea and Exhibition		Hall H
3.55pm – 5.45pm	Concurrent Sessions		
	Hall C	Hall A	Hall B
	Agronomy & Environment Chair — Elio Jovicich	Energy Efficiency Chair – TBC	Grower Workshop Improving energy efficiency
3.55pm – 4.15pm	36. Coping with Hotter and Brighter Climates Graeme Smith, Graeme Smith Consulting	59. Resource Use and Sustainability Assessment of Australian Greenhouse Capsicum Production Jing He, Western Sydney University	<ul> <li>Chair - Matt Plunkett</li> <li>Ton Habraken, Ludvig Svensson Bv</li> <li>Jack Mooney, Provenance Propagation</li> <li>Alex Townsend, Choice Energy</li> </ul>
4.15pm – 4.35pm	37. Rock Solid Developments in the Grodan Research Department <i>Tico van Leeuwen, Grodan</i>	48. Optimizing Water, Energy and Production for Horticultural Success  John van der Wilk, Stolze	Clinton Muller - Tools and assessing baseline emissions
	Agronomy & Environment – continued	Market & Supply Chain, Chair – TBC	
4.35pm – 4.55pm	54. Growing Profitably and Sustainably Using Vento Tunnel Films, Increased Yields While Reducing Energy and Labour Costs with Self Ventilating Greenhouse Films Robert Trenchard, Terrashield Pty Ltd	60. The Food Frontier: Could the Asia Pacific Feed the World?  Alastair Maclean, Powerplants	
4.55pm – 5.15pm	Pollination & Pest Management Chair – Elio Jovicich 20. Assessing Visual and Olfactory Cues for Enhanced Monitoring of Serpentine Leaf Miner Lok Nath Aryal, Macquarie University	56. Horticulture Goes Urban delivering knowledge to enable close to consumption production of perennial crops Samantha Baldwin, The New Zealand Institute for Plant and Food Research Limited	
5.15pm – 5.35pm	18. Varroa: the New Frontier of Honey Bee Pollination <i>Danny LeFeuvre, Australian</i> Honey Bee Industry Council		
5.35pm – 7.00pm	Free Time		
7.00pm – 11.00pm	Gala Dinner & Awards Presentation - Sponsor	red by Perfection Fresh	Hall FG

Thursday, 31 July 2025 Farm Tours – timings are estimated				
Tour 1 Times	Tour 1 – Vegetable Crops	Tour 2 Times	Tour 2 – Mixed Crops	
5.45am	Depart Adelaide Convention Centre	7.00am	Depart Adelaide Convention Centre	
6.00am	SA Produce Markets	8.00am	Australian Grain Tech	
9.00am	TRL Produce	10.00am	PNLeav Greenhouse Builder	
11.00am	VocoFresh	12.00pm	Quality Harvest	
12.30pm (lunch)	Apex Greenhouses	2.00pm	Living Colour Nursery	
2.30pm	Adelaide Airport drop off	3.30pm	Adelaide Airport drop off	
3.00pm	Return to Adelaide Convention Centre	4.00pm	Return to Adelaide Convention Centre	

## All the Posters that will be on display in the Exhibition Hall.

Presenter	Organisation	Poster Title	Theme
Alastair Delooze	DENSO	35. Technology adoption: Developing the right foundations for success.	Ag tech (including the application of AI & Robotics)
Anshul Phaugat	Centre Of Excellence - Plants For Space, La Trobe University	61. Optimizing Hydroponic Mini Cucumber Cultivation: Enhancing Nutrient Management, Labour Efficiency, and Space Exploration	Crop management
Anu Jayaweera	Macquarie University, Sydney	73. Vibratory mating disruption as a potential tool for managing serpentine leafminer (Liriomyza huidobrensis) in protected cropping systems	Integrated Pest & Disease Management
Hussein Ibrahim	Zebbraagriculture	19. Enhancement evaporative cooling for greenhouses	Climate control (incl. lighting)
Maduni Wijethilake	RMIT University	68. A light diffusion radiative cooling film for high-yield protected cropping.	Emerging technologies
Mark Cardamis	UNSW	41. Leafeon: Toward Accurate Sensing of Leaf Water Content for Protected Cropping With mmWave Radar	Ag tech (including the application of AI & Robotics)
Md Sahadat Hossain	Applied Biosciences, Macquarie University	33. Identification of host plant volatile compounds for modifying adult pest behaviour of Liriomyza huidobrensis	Integrated Pest & Disease Management
Ricarda Jost	La Trobe University	65. Understanding nutrient use in Cannabis sativa L. to optimise cultivation in protected cropping environments	Climate control (incl. lighting)
Robert Spooner-Hart	Western Sydney University	39. Managed buzz-pollination of protected crops by native, blue-banded bees	Pollination
Sanjana Akter	Macquarie University	51. Life History traits of Liriomyza huidobrensis and its parasitoid (Neochrysocharis formosa) on different temperature	Integrated Pest & Disease  Management
Ton Habraken	Ludvig Svensson Bv	44. Plant Empowerment: the road-map to sustainable horticulture!  A Data-Driven growing philosophy to grow more sustainable and profitable	Climate control (incl. lighting)