

## Program DAY 1 — Monday 27 February 2023

8.00 am	<b>REGISTRATION &amp; COFFEE (Sponsored by AGT)</b>			
8.45 am	<b>PLENARY 1 – Grand Ballroom 1</b>			
8.45 am	Welcome — Darrin Lee, GRDC Western Panel Future directions for GRDC investments — John Woods, Chair GRDC			
9.10 am	The Grains Australia pathway to value — Richard Simonaitis, Grains Australia			
9.25 am	GRDC 'Seed of Light' Award presentation			
9.45 am	The market outlook for grains — Michael Whitehead, ANZ			
10.15 am	The sustainability of Australian grain farming systems — Richard Heath, Australian Farm Institute			
11.00 am	<b>MORNING TEA</b>			
11.40 am	<b>SESSION 1</b> — Agronomy	<b>SESSION 2</b> — Markets	<b>SESSION 3</b> — Crop Protection – Diseases	<b>SESSION 4</b> Crop Protection – Weeds
	Selecting the right cereal variety for the conditions Felicity Harris, Charles Sturt University	Grain export supply chain challenges Ross Kingwell, AEGIC	Australian Fungicide Resistance Extension Network update Fran Lopez-Ruiz, CCDM	The most expensive herbicide is the one that doesn't work: Hitting the target Bill Campbell, Bill Campbell Consulting
12.10 pm	<b>5 Min Moving</b>			
12.15 pm	Towards an understanding of crop residue effects on wheat yield Michael Ashworth, AHRI	Market requirements and how Australian wheats perform Ken Quail, AEGIC	The impact of new rust resistance genes Melania Figueroa, CSIRO	Glyphosate alternatives for summer and pre-seeding knockdown weed control Harmohinder Dhammu, DPIRD
12.45 pm	<b>LUNCH</b>			
1.40 pm	<b>SESSION 5</b> — Agronomy	<b>SESSION 6</b> — Carbon and GHG	<b>SESSION 7</b> — Nutrition	<b>SESSION 8</b> Crop Protection – Weeds
	Optimal planting times for canola varieties Tamryn Davis, SLR Agriculture and Matthew Nelson, CSIRO	Nitrous oxide emissions from cropping soils in the WA grainbelt: a 10-year perspective Louise Barton, UWA	What is driving yield response to phosphorus fertiliser in current cropping systems? Craig Scanlan, DPIRD	Strategic tillage: how does it impact weed management? Catherine Borger, DPIRD
2.10 pm	<b>5 Min Moving</b>			
2.15 pm	Grower experiences with Super High Oleic safflower in WA Byron Milne, Spencer Beatty and Michael Lamond, SLR Agriculture	Key learnings from benchmarking greenhouse gas emissions from WA growers Stacey Bell-Crookes, Farmanco	Optimising nutrition for high rainfall zone canola Jeremy Curry, DPIRD	Predicting profitability of summer weed control timing and impact on crop yield potential Yvette Oliver, CSIRO
2.45 pm	<b>5 Min Moving</b>			
2.50 pm	The fit of long coleoptile wheat for WA growers – opportunities and adaptations in shifting climates and landscapes Michael Lamond and Kate Witham, SLR Agriculture	Profitable low emission crop rotation? Sud Kharel, DPIRD	Carryover of nitrogen after crop failures Darren Hughes, Laconik	Herbicide resistance: a status update Ken Flower, AHRI
3.20 pm	<b>AFTERNOON TEA</b>			

This program may be subject to change.

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# Program

DAY 1 — Monday 27 February 2023 *(continued)*

4.00 pm	SESSION 9 — Nutrition	SESSION 10 — Soils	SESSION 11 — Plant Breeding	SESSION 12 — Markets and Post Harvest
	<p>Potassium update — Panel discussion</p> <hr/> <p>Getting more efficiencies out of potassium (and nitrogen) fertilisers in a high price environment James Easton, CSBP</p> <hr/> <p>Comparison of soil analytical methods for estimating plant-available potassium Miaomiao Cheng, SoilsWest</p>	<p>Long-coleoptile wheats for improved establishment, weed competitiveness and productivity on ameliorated soils Stephen Davies, DPIRD</p> <hr/> <p>Subsurface acidity management: long term grower case studies to direct future management Alice Butler, DPIRD</p>	<p>Targeted crop trait improvement through gene editing Yong Han, DPIRD</p> <hr/> <p>Gene-editing and crop breeding: what can it deliver and what are the implications for international trade? Michael Jones, Murdoch Uni</p>	<p>Sustainability or Health? Grain-food product differentiation in key markets Chris Carter, AEGIC</p>
4.30 pm	Miaomiao Cheng, SoilsWest	<b>5 Min Moving</b>		<b>5 Min Moving</b>
4.35 pm	<p>K responses on loamy soils: an emerging issue for grain crops Richard Bell, SoilsWest</p> <hr/> <p>Canola responses to potassium form, rate and placement in low and high rainfall environments Richard Bell, SoilsWest</p>	<p>Re-engineering soil to redefine the water-limited yield potential under changing climate Gaus Azam, DPIRD</p>	<p>50 years of wheat breeding impact in WA Dion Bennett, AGT</p>	<p>From stalk to store: opportunities for WA growers to improve harvesting and postharvest storage Ben White, Kondinin Group</p>
5.05 pm	<b>NETWORKING SUNDOWNER (Sponsored by CBH Group)</b>			

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## Program DAY 2 — Tuesday 28 February 2023

7.00 am	GIWA BREAKFAST REGISTRATION (separate ticketing) – Crown Ballroom 3			
7.15 am	GIWA Breakfast commences – sponsored by the Department of Primary Industries and Regional Development			
8.50 am	GIWA Breakfast concludes			
8.30 am	WELCOME COFFEE (Sponsored by AGT)			
9.00 am	Welcome back			
9.10 am	PLENARY 2 – Grand Ballroom 1			
9.10 am	Plant protein production - value adding to Australian pulses — Phil McFarlane, Australian Plant Proteins			
9.55 am	<b>SESSION 13</b> – Soils	<b>SESSION 14</b> – Canola	<b>SESSION 15</b> – Crop Protection – Diseases	<b>SESSION 16</b> – Crop Protection – Insects
	Molecular level interpretation of Soil Water Repellency for the development of rapid assessment and novel amendments David Henry, Murdoch Uni	New genetics for improved canola establishment Matthew Nelson, CSIRO	Wheat powdery mildew Sam Trengove, Trengove Consulting	Using surveillance and social benchmarking to improve redlegged earth mite insecticide resistance management Lizzy Lowe, Cesar Australia
10.25 am	5 Min Moving			
10.30 am	Impact of timing of strategic deep tillage on crop productivity, profitability and agronomic opportunities George Mwenda, DPIRD	Manipulating canola canopies through agronomy and genetics in the high-rainfall zone Jens Berger, CSIRO	Insecticidal control of green peach aphid and turnip yellows virus: resistance threats, limitations and future alternatives Ben Congdon, DPIRD	Lessons learned from native budworm activity in wheat relative to traditional hosts lupins, pulses and canola Dusty Severtson, DPIRD
11.00 am	MORNING TEA			
11.35 am	<b>SESSION 17</b> – Soils	<b>SESSION 18</b> – Digital Agriculture	<b>SESSION 19</b> – Crop Protection – Diseases	<b>SESSION 20</b> – Crop Protection – Insects and Weeds
	Can we get gains in the paddock with different bio-amendment products and management strategies? Grace Williams, DPIRD	Next generation digital technologies for the grains industry Ferdous Sohel, Murdoch Uni	How long do <i>sclerotinia</i> sclerotes survive in WA? Decision support tools to help with on-farm management of blackleg and <i>sclerotinia</i> in canola Jean Galloway, DPIRD	Russian wheat aphid thresholds in WA and using biological control for RLEM Svetlana Micic, DPIRD
	Potential use of on-farm acidic sand and other ameliorants to detoxify subsoil boron while re-engineering the soil profile Kanch Wickramarachchi, DPIRD			
12.05 pm	5 Min Moving			
12.10 pm	Options for managing sodic soils David Hall, DPIRD	Digital Agriculture: what does an information intensive agricultural system look like? Roger Lawes, CSIRO	Fungicide mixtures, rotations, timing and decisions for managing Net Form Net Blotch on barley in southern WA Kithsiri Jayasena, DPIRD	Resistance status of wild radish, brome and barley grass Mechelle Owen, AHRI
			Economical management of Spot Form Net Blotch in low rainfall environments Jason Bradley, DPIRD	CoAXium® Barley: a new weed management tool Tristan Coram, AGT
12.40 pm	LUNCH			

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## Program DAY 2 — Tuesday 28 February 2023 (continued)

1.30 pm FOCUS SESSIONS				
	Focus Session 1	Focus Session 2	Focus Session 3	Focus Session 4
1.30 pm	<p><b>Canola on Canola: profit maker or system breaker?</b> Convenor: Juliet McDonald</p> <p>We have a range of speakers who can help understand critical components of whether or not to do canola on canola.</p> <ul style="list-style-type: none"> <li>• <b>Varieties and breeding objectives</b> – David Tabah</li> <li>• <b>Disease risks in canola</b> – Steve Marcroft</li> <li>• <b>Optimal nutrition</b> – Rohan Brill</li> <li>• <b>Insect problems in canola</b> – Dusty Severtson</li> <li>• <b>Weeds issues or solutions</b> – Harmonhinder Dhammu</li> <li>• <b>Grower experience with canola on canola</b> – Chad Eva</li> </ul>	<p><b>Reducing grain farming emissions</b> Convenor: Ben White</p> <p>This focus session will look at how well WA grain farmers are meeting the grain farming emissions and what some of the constraints are to achieving further reductions.</p> <ul style="list-style-type: none"> <li>• <b>Findings of DPIRD/CBH/ WOA work</b> – Jackie Bucat</li> <li>• <b>Lime/fertiliser use and emission trade-offs</b> – Chris Gazey</li> <li>• <b>Machinery efficiencies to reduce GHG</b> – Glen Reithmuller</li> <li>• <b>Experience of an on-farm audit</b> – Gary Lang</li> <li>• <b>Challenges for CBH and growers</b> – Royce Taylor</li> <li>• <b>Broad findings of farmers undergoing audits</b> – Stacey Bell-Crookes</li> </ul>	<p><b>Plant breeding research workshop</b> <b>Untangling the ‘Gordian Knot’ of <i>septoria nodorum</i> blotch of wheat</b> Kar-Chun (KC) Tan, CCDM</p> <p><b>Pangenomes as a technology to improve Australian Oats and barley industry</b> Penghao Wang, Murdoch Uni</p> <p><b>Heat stress tolerance in a barley germplasm</b> Tefera Angessa, Murdoch Uni</p> <p><b>Progress towards the discovery of genes for heat stress tolerance in a diverse canola population</b> Sheng Chen, UWA</p> <p><b>In from the wild: improving chickpea chilling tolerance using the wild relatives</b> Jens Berger, CSIRO</p> <p><b>Identification of aluminum-tolerant chickpea genotypes and their potential use in chickpea breeding</b> Yong Jia, Karthika Pradeep, Murdoch Uni</p> <p><b>An effective strategy for pre-breeding investigations into soil constraints amidst climate change</b> Roopali Bhoite, DPIRD</p>	<p><b>New researchers’ snapshots</b> <b>Insect response to canola with modified sterol metabolism</b> Afroja Rahman, Murdoch Uni</p> <p><b>A case of mistaken identity? – new knowledge of root lesion nematode pests of grains in south-west WA</b> Rhys Copeland, Murdoch Uni</p> <p><b>Investigating herbicide tank mixes to control HPPD-resistant wild radish (<i>Raphanus raphanistrum</i>)</b> Rex Cao, AHRI/Nufarm</p> <p><b>Investigating electric weed control in Australia</b> Miranda Slaven, DPIRD</p> <p><b>Genome mining in fungi: uncovering a treasure trove of herbicidal molecules</b> Hera Nyugen, UWA</p> <p><b>How are heat and drought stresses functionally linked to glyphosate resistance?</b> Arslan Peerzada, DPIRD</p> <p><b>Effectiveness of chickpea rhizobia across Western Australian agro-ecological zones</b> Yvette Hill, Murdoch Uni</p> <p><b>Wheat Blast what is our risk?</b> Zia Hoque, DPIRD</p> <p><b>Revealing better metabolic adaptations in roots of bread wheat lines differing in salt tolerance mechanisms</b> Bhagya Dissanayake, UWA</p> <p><b>Improving farming system profitability, management of greenhouse gas emissions and climate resilience in the low and medium rainfall zones of WA: Grower perspectives</b> Dayna Hutchison, DPIRD</p> <p><b>Farm strategy and tactics matter</b> Michael Young, UWA</p>
3.30 pm	15 Min Moving			
3.45 pm	PLENARY 3 – Grand Ballroom 1			
3.45 pm	Grain crop residues to hydrogen and ammonia — Louise Brown, Hydgene Renewables, and Greg Perkins, Wildfire Energy			
4.35 pm	GRDC closing comments — Peter Bird, GRDC			
4.45 pm	Sponsors and speakers' Sundowner (Sponsored by CSBP)			

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