

## Program DAY 1 — Monday 21, February

### Plenary presentations

9.00 am	Opening and future directions for GRDC investments in grains RD&E – John Woods, Chairman GRDC
9.30 am	‘Seed of Light’ presentation – Darrin Lee, Chairman GRDC Western Panel
9.45 am	Greenhouse gas emissions of Australian grain production – Maartje Sevenster, CSIRO
10.15 am	<b>BREAK</b>
10.30 am	Carbon neutral grain farming by 2050 – an example in calculating net emissions for a broadacre farm and strategies to reduce net emissions – Mandy Curnow, DPIRD
11.00 am	Market Outlook for the WA grains industry in 2022 and the longer term – challenges and opportunities – PANEL DISCUSSION WITH: Cheryl Kalisch-Gordon, Rabobank; Jason Craig, CBH; John Orr, Premium Grain Handlers; and Richard Simonaitis, AEGIC
12 noon	<b>BREAK</b>
12.30 pm	Australian soft wheat for Asian markets – Ken Quail, AEGIC
1.00 pm	Wheat agronomy management – managing risk versus potential – Dion Nicol, DPIRD
1.30 pm	Blackleg control in the upper canopy of canola crops – Steve Marcroft, Marcroft Grains Pathology
2.00 pm	<b>BREAK</b>
2.15 pm	Forewarned is Forearmed – new BoM tools for weather forecasting and climate services for agriculture – Dale Grey, Agriculture Victoria
2.45 pm	Lessons for growers from the hyper yielding crops and high rainfall zone farming systems projects in WA – Nick Poole, FAR Australia
3.15 pm	<b>Day 1 concludes</b>

This program may be subject to change.

## DAY 2 — Tuesday 22, February

### Plenary presentations

9.00 am	Gene-editing technology – what can it deliver to growers and the grains industry – Catherine Feuillet, Chief Scientific Officer, INARI, USA
9.40 am	The interaction between wheat establishment timing and pre-emergent herbicides choice on annual ryegrass seed production – Mike Ashworth, AHRI, UWA
10.10 am	The fit of long coleoptile wheats in WA grain farming systems – observations from the 2021 growing season – Michael Lamond, SLR Agriculture
10.40 am	<b>BREAK</b>
11.00 am	Optimising fertiliser application – what level of precision can we achieve? – Craig Scanlan, DPIRD
11.30 am	Fertiliser strategies in response to higher prices – PANEL DISCUSSION WITH: Peter McEwen, Agri-Access; James Easton, CSBP; Elizabeth Petersen, UWA; and Craig Scanlan, DPIRD
12.30 pm	<b>BREAK</b>
1.00 pm	Tips for canola establishment – Jackie Bucat, DPIRD and Matt Nelson, CSIRO
1.30 pm	Oat varieties for 2022 and the new national oat breeding program – Allan Rattey, InterGrain
2.00 pm	<b>BREAK</b>
2.15 pm	Mice control – Steve Henry, CSIRO
2.45 pm	Why bother with artificial intelligence in agriculture? Because it can improve fertiliser management? – Jonathan Richetti, CSIRO
3.15 pm	<b>Day 2 concludes</b>

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## Program DAY 3 — Tuesday 1, March

### NUTRITION

9.00 am	Agronomic factors are the dominant influence on nitrogen fertiliser strategies in SW Australia – Elizabeth Petersen, UWA
9.25 am	Potassium rundown in the Western grains region – where, why and what does it mean for crop yields – Richard Bell, Murdoch University
9.50 am	Does optimum wheat phosphorus requirement change with sowing time and conditions in WA? – Mark Gherardi, Summit Fertilizers
10.20 am	<b>NEW RESEARCHER SNAPSHOT:</b> The power of flux towers for measuring crop productivity and water use – Caitlan Moore, UWA
10.40 am	Session concludes

### NITROGEN FROM LEGUMES

11.00 am	Pasture legumes suited to the low to medium rainfall zones consistently achieve high protein levels in subsequent cereal crops – Robert Harrison, CSIRO
11.25 am	Profitability, costs and risks associated with establishing annual pasture legumes in cropping rotations – Dean Thomas, CSIRO
11.50 am	Optimising nitrogen fixation in legumes through improved rhizobia strains – Ron Yates, DPIRD
12.15 pm	<b>NEW RESEARCHER SNAPSHOT:</b> Soil moisture mapping in agricultural fields using electrical conductivity sensing – Hira Shaukat, UWA
12.35 pm	Day 3 concludes

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## DAY 4 — Thursday 3, March

### CROP PROTECTION

9.00 am	Ice nucleating bacteria and frost – Amanuel Bekuma, DPIRD
9.25 am	How well does assessment of outer florets of wheat heads following frost(s) relate to grain yield at the end of the season? – Brenton Leske, DPIRD
9.50 am	AHRI herbicide resistance update 2021 – most significant results from the field to the lab – Roberto Busi, AHRI UWA
10.15 am	<b>NEW RESEARCHER SNAPSHOT:</b> Electric weed control in Australia – Miranda Slaven, DPIRD
10.35 am	Session concludes
11.00 am	Advances in controlling brome and barley grass – Gurjeet Gill, University of Adelaide
11.25 am	Maximising crops and minimising weeds with smart phase farming – Yaseen Khalil, AHRI, UWA
11.50 am	Yes, no, maybe – getting value from herbicide resistance testing – Fiona Dempster, AHRI, UWA
12.15 pm	Determining yield loss in canola following Sclerotinia stem rot infection – Sarita Bennett, CCDM, Curtin University
12.40 pm	<b>NEW RESEARCHER SNAPSHOT:</b> Spraying for yellow spot leaf in wheat – will you lose money? – Anna Hepworth, DPIRD
1.00 pm	Day 4 concludes

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## Program DAY 5 — Tuesday 8, March

### CANOLA

9.00 am	Effect of seed singulation and seeding rates of canola on yield and competition against ryegrass – Glenn McDonald, University of Adelaide and Glen Reithmuller, DPIRD
9.30 am	Canola pre-breeding for heat tolerance – Sheng Chen, UWA
9.55 am	Spring versus winter canola phenology across Australia – new insights for WA growers – Jeremy Wish, CSIRO
10.20 am	<b>NEW RESEARCHER SNAPSHOT:</b> Chemical cues used by natural enemies of the green peach aphid to find their prey in canola fields – Andrew Phillips, Murdoch University
10.40 am	Session concludes

### CEREALS – wheat, oats and barley

11.00 am	Understanding the fit of winter wheats for WA environment – Brenda Shackley, DPIRD
11.25 am	Pre-harvest sprouting begins at seeding – Jeremy Curry, DPIRD
11.50 am	Growing a future for oats – Ross Kingwell, AEGIC
12.15 pm	<b>NEW RESEARCHER SNAPSHOT:</b> Genetic solutions to enhance spikelet fertility and grain plumpness during heat stress at flowering in barley – Camilla Hill, Murdoch University
12.30 pm	Day 5 concludes

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## DAY 6 — Thursday 10, March

### SOILS

9.00 am	The combined influence of micro-water harvesting, deep ripping and gypsum on yield of barley in sodic soils – Wayne Parker, DPIRD
9.25 am	Sand and gravel mulches for sodic soils – David Hall, DPIRD
9.50 am	<b>NEW RESEARCHER SNAPSHOT:</b> Improving the understanding of soil water behaviour in re-engineered soil profiles – Kanch Wickramarachchi, DPIRD
10.05 am	<b>NEW RESEARCHER SNAPSHOT:</b> Efficacy of pre-emergent herbicides on renovated soil – Sultan Mia, DPIRD
10.20 am	On farm experimentation – developing robust analysis for paddock scale trials – Julia Easton, Curtin University
10.45 am	Session concludes

### PULSES

11.00 am	Faba bean agronomy – Mark Seymour, DPIRD
11.25 am	Double break crop sequences with high value legumes – awesome when it rains! – Nathan Craig, West Midlands Group
11.50 am	Understanding and managing sclerotinia in lupins – Ciara Beard, DPIRD
12.15 pm	Recent and impending changes to chemical MRL's in markets – Gerard McMullen, National Working Party on Grain Protection
12.40 pm	Day 6 concludes

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