



ADELAIDE  
SOUTH AUSTRALIA  
TUESDAY 11TH AND  
WEDNESDAY 12TH  
FEBRUARY 2020

# GRAINS RESEARCH UPDATE



**GRDC**  
GRAINS RESEARCH  
& DEVELOPMENT  
CORPORATION

Adelaide Convention  
Centre, North Terrace



[grdc.com.au](http://grdc.com.au)



# Day 1 program

8.15 am registration for a  
8.55 am start - 5.30 pm

## PLENARY PRESENTATIONS

### Australia's grain industry in 2030 – a look into the future

Ross will present AEGIC's analysis on the expected future path for the southern Australian grains industry over the next 10 years. Ross is a respected agricultural economist and leads AEGIC's Economics and Market Insights Team. He is also a distinguished fellow of the Australasian Agricultural and Resource Economics Society (AARES). This session will give an insight into the grain industry's expected challenges including climate variation, population growth and dietary habits and what the ramifications, options and opportunities are for the grain industry in the southern region.



**Ross Kingwell,**  
*Australian Export  
Grains Innovation  
Centre (AEGIC),  
University of  
Western Australia,  
Department of  
Primary Industries  
and Regional  
Development*

### New herbicides – the best integration to prolong their impact

Several new herbicide actives have been released or are about to hit the market; how do we use these new actives and what are the advantages? What have we learnt from old habits to prolong the life of not only these new chemicals but the others we are currently using? This session will be delivered by Roberto who has over 10 years' experience with AHRI; leading research on how weeds respond to current herbicide uses. He passionately drives programs to assist growers' decisions and boost their confidence in weed control programs.



**Roberto Busi,**  
*Australian  
Herbicide  
Resistance  
Initiative (AHRI),  
University of  
Western Australia*

### International grain markets – long term trends

Cheryl will provide an overview of the current drivers in the international grain market including the future for low cost production origins and the global trade dynamic in the wake of the recent US-China tensions. Cheryl works with RaboResearch's global grain and oilseed team as a Senior Analyst, based in Orange, NSW. She is responsible for forecasting prices for key grains and oilseeds, as well as the delivery of strategic analysis of the Australian and global grains and oilseed industries.



**Cheryl Kalisch  
Gordon,**  
*RaboResearch*

## CONCURRENT PRESENTATIONS

### New pasture opportunities to boost productivity of mixed farms in low/medium rainfall areas

Evaluation of a range of annual pasture legumes not currently used widely, to understand adaptability to soil type and rainfall.  
Ross Ballard, *SARDI*

### New changes and future opportunities within NVT

Performance of new wheat and barley varieties highlighting the new changes and future opportunities coming through the NVT.  
Rob Wheeler, *GRDC*

### The hows and whys for deep ripping sandy soils

Update on research to improve crop performance on sandy soils through deep ripping. How to achieve best results and magnitude of improvement in crop performance. **Brian Dzoma, *SARDI***

### A sensor-based approach to improved N decision making

How the Future Farm project is using crop and soil sensors coupled with on-farm trials as a basis for more effective N fertiliser decision making.  
Rob Bramley, *CSIRO*

### Latest strategies in canola disease control

Update on seed treatment and other options in response to recent changes in canola agronomy and management.  
Steve Marcroft, *Marcroft Grains Pathology*

### Frost mitigation – investigating agronomic options

Changing our thinking around frost mitigation and management. Preliminary assessment of variety mixing and alternate rows.  
Mick Faulkner, *Agrilink Agricultural Consultants*

### The 10 key lessons from the Optimised Canola Profitability project

With this major initiative wrapped up, Andrew will provide his perspective on the key learnings from this project following further interrogation of data. **Andrew Ware, *EPAG Research***

### Potassium and sulphur – the known knowns and the known unknowns

A summary of research regarding best practice management of these emerging element deficiencies, focussing on any recent developments.  
Rob Norton, *Norton Agronomic P/L*

### Problem weeds - management to minimise impact

The latest research results looking at ways to manage annual ryegrass, barley grass and brome grass. **Surjeet Gill, *The University of Adelaide***

### On the couch - with Roberto Busi and Ross Kingwell

Heard the plenary but still not satisfied? This 'on the couch' informal Q&A provides opportunity for further in-depth discussion to flesh out the topic.

### The health report – pulse disease update

Update on management of the most concerning pulse diseases for 2020 including the new in-crop monitoring tool for botrytis that aids fungicide application decision making.  
Mohsen Khani, Sara Blake and Blake Gontar, *SARDI*

### Use of chemicals and residues arising

Perceptions and requirements of key export markets and the implications for advisers and growers.  
Gerard McMullen, *National Working Party on Grain Protection*

### Break crop selection in low rainfall environments – one size does not fit all

Do you need assistance with choosing the break crop best suited to your low rainfall farming system? Sarah will discuss matching break crop characteristics with agronomic and paddock information for best crop performance. **Sarah Day, *SARDI***

### Emerging research from PhD students

Brooke Bruning and Alicia Merriam

**Networking drinks and finger food in trade display area courtesy of AGT**

# Day 2 program

9.00 am to 3.00 pm

## Early Risers – 8.15 am start

**The economics of soil testing. How often and how many soil tests do you do? What is the return on investment in time, effort and cost? How do we get the best use of soil testing for agronomic advice?**

## PLENARY PRESENTATIONS

### Predicted climate change impacts on southern farming systems and how should we act?

With recent dry and volatile weather conditions affecting growers across most of the grain growing regions of Australia, the question is; is this the new norm? Growers and advisers have done an excellent job in adapting farming systems and practices to make use of lower rainfall. In this session Peter will discuss what the impact of climate change looks like for Southern grain growing regions and what can be done to further enhance farming systems so that they will prosper alongside climate variability? Peter is the Principal Scientist in Climate Applications with SARDI. He is an agricultural scientist who works on how the grains industry can better use the advances of climate science to increase productivity and reduce risk.



**Peter Hayman,**  
*SARDI*

### What's the cost of HWSC for you?

Peter will demonstrate how to determine the best HWSC option for a given situation. A new tool that accounts for crop yields, sowing area, costs of HWSC control options and efficacy on locally important weed species.

Peter is a member of the AHRI communications team where his role involves communicating AHRI research as well as other information about managing herbicide resistant weeds in an interesting way to the agriculture community. He is sponsored by WeedSmart to speak at this event.



**Peter Newman,**  
*Western Extension  
Agronomist, AHRI*

## CONCURRENT PRESENTATIONS

### Seeding strategies for non-wetting soils, including research on soil wetters

Different strategies for seeding to optimise establishment on non-wetting soils including wetters, edge-row and on-row sowing, deep moisture delving and alternative methods such as paired row sowing. Jack Desbiolles, *University of South Australia*

### Cereal disease wrap up

Update on management of the most concerning cereal diseases for 2020. Hugh Wallwork, *SARDI*

### Integrating new chemistries in the field

Chris will provide the specifics of how best to use the new herbicides that have recently been released or about to hit the market in order to maximise efficacy and minimise cost. Chris Preston, *The University of Adelaide*

### New strategies to manipulate flowering date and yield

Kenton will discuss management practices to maximise performance of early sown winter wheat including strategies to manipulate flowering date. Kenton Porker, *SARDI*

### Septoria – no longer only an issue for the high rainfall zone?

Andrew will focus on the tactics for most effective management of Septoria in the drier regions. Andrew Milgate, *NSW DPI*

### Latest research for improving management of snails

New insights into ecology and resistance management of snails and how this knowledge can help decisions regarding optimal bait rates and timing of control treatments. Helen Brodie, *SARDI*

### Rapid post-event frost damage assessment – can it be achieved?

In-paddock tools to detect and quantify frost damage in wheat to enable better hay cutting decisions. Audrey Delahunty and Glenn Fitzgerald, *Agriculture Victoria*

### Soaks are seeping across the South Australian landscape – what can be done about it?

Solutions for early identification and assessment of seep areas and targeted use options for excess water from recharge zones. Chris McDonough, *Insight Extension for Agriculture*

### Spotlight on legumes

Coverage of many newer varieties, analysis of phosphorus and sulphur needs and a discussion of metribuzin tolerance in lentils and chickpeas. Penny Roberts, *SARDI*

### Improving the heat tolerance of wheat

Do breeding lines differ in their heat tolerance? Discovery of cultivars with stable grain weight and reduced screenings under heat stress. Rebecca Thistlethwaite, *University of Sydney*

### Keeping watch on active plant pests

A new sentinel system to guide direction and intensity of pest control actions. Rohan Kimber, *SARDI*

### Subsurface acidity – how far has the research advanced?

Progress towards 'getting it right' with methods of assessment and treatment. What does research from different regions and soils types tell us? Melissa Fraser, *PIRSA*

**Barista coffee cart courtesy of Adama**

# EVENT DETAILS



**GRDC**  
GRAINS RESEARCH  
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## IMPORTANT INFORMATION

### Registration options

**Cost:** **\$130** one-day inc. GST | **\$200** two-days inc. GST  
**Student:** **\$75** student one-day inc. GST | **\$120** student two-days inc. GST  
**Extra proceedings:** **\$60** for pick up inc. GST | **\$80** posted inc. GST

**Click here to register and pay online**

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### Cancellation

If cancellation of your registration is necessary, please contact ORM Pty Ltd with details. Cancellations prior to **6 February 2020** will receive a full refund. **There will be no refunds for cancellations received on or after 6 February 2020.** Registration is transferable at any time.

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### Car parking

Parking is available at the North Terrace and Riverbank car parks.

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### Catering

Food and beverages are provided throughout the day.

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### Accommodation

A list of accommodation options is available via the **www.orm.com.au** website.

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### Program

Topics and speakers are subject to change.

The final program will be provided to registered attendees and made available via the GRDC website in January.

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### Industry supporters

Opportunities for industry supporters are available.  
For details contact ORM Pty Ltd.

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### Contact details

For enquiries, contact ORM Pty Ltd on **03 5441 6176** or email **admin@orm.com.au**

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