



**BENDIGO  
VICTORIA**  
TUESDAY 25TH AND  
WEDNESDAY 26TH  
FEBRUARY 2020

# GRAINS RESEARCH UPDATE



**GRDC**  
GRAINS RESEARCH  
& DEVELOPMENT  
CORPORATION

**Ulumbarra Theatre,  
Gaal Road**



[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

### A look into the future – capitalising on barley market opportunities

Barley plantings have increased considerably over the last two seasons due to high domestic demand and low rainfall. What opportunities do the markets of India, Vietnam and China present for Australian barley? The importance of export markets needs to be considered, especially when the East Coast returns to normal levels of production and demand. Mary has extensive whole-of-supply chain experience for a range of cereals and pulses. Her wealth of experience includes roles with Grain Trade Australia, Pulse Australia and the Victorian Government.



**Mary Raynes,**  
*Australian Export  
Grains Innovation  
Centre (AEGIC)*

### Understanding pre-emergent herbicide availability, selectivity and persistence and how we can use this knowledge to predict behaviour of new herbicides

Mark will discuss how environmental, soil and herbicide properties interact with the way we apply pre-emergent herbicides in order to achieve both crop safety and weed control. By understanding these interactions, advisers and growers will be able to make some early predictions of how the new upcoming pre-emergent chemistry is expected to behave. Mark is a senior consultant with ICAN and has been leading a GRDC initiative to provide advisers and growers with a better understanding of the behaviour of herbicides in the environment.



**Mark Congreve,**  
*ICAN*

### Hitting production targets in the UK amidst a highly regulated environment

This presentation contributes to the discussion of how advisers and growers may have to manage pesticide use if restrictions and regulations in the UK become a reality in Australia.

Keith has 35 years of experience in crop production in the UK, France, Germany, Spain, Russia, Ukraine and Zambia. He provides advice on the commercial production of grain crops throughout the UK, with a diverse range of weed, disease and pest pressures, soil types, climates and yield potential.



**Keith Norman,**  
*Keith Norman  
Consultancy Ltd*

## CONCURRENT PRESENTATIONS

### Assessing the value of soil and plant testing

Harm will present the latest findings from a GRDC project which aims to assess the value of soil and plant testing to inform soil management and fertiliser decisions. Harm van Rees, *Cropfacts Pty Ltd*

### The risks and rewards of growing pulse crops in the low rainfall zone (LRZ)

Vetch hay is grown on an increasing area throughout the LRZ due to its lower risk and high demand. Michael will address how it stacks up on a risk and return basis when compared to other pulse crops. Michael Moodie, *Mallee Sustainable Farming and Frontier Farming Systems*

### Improving the outcomes of oaten hay in the rotation

With specialist oaten hay becoming more popular due to greater demand and returns, Courtney will discuss the recent work which has been done in the National Hay Agronomy project. Courtney Peirce, *SARDI*

### The continuing evolution of HWSC options

Mike will present the latest research findings in this field including the evaluation of HWSC systems, effect of chaff on weed seedling emergence and effect of grazing on chaff lines. Mike Walsh, *The University of Sydney*

### Stubble and nutrient management to build soil carbon – challenges and opportunities

Building soil carbon in an economical and practical way is a challenge that many growers and advisers are trying to address. BP will present on his recent research into this subject. BP Singh, *NSW DPI*

### Insect pest control – are you advising for today or the future?

A panel discussion of Integrated Pest Management in the face of losing key pesticide products. Kelly Angel, *BCG*, Greg Toomey, *Nutrien Ag Solutions* and Craig Drum, *Dagro*

### 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*

### Better pastures, better crops – best management of pastures in a mixed farming system

With recent livestock returns at record levels, integrating a productive pasture phase into the system has become important. Tim will address best management of the pasture phase to optimise pasture productivity and the benefits for following crops. Tim Condon, *Delta Ag*

### 2020 cereal disease update

Key cereal diseases for 2020 with some focus on economic management of spot form net blotch (SFNB) in barley and red leather leaf in oats. Grant Hollaway and Mark McLean, *Agriculture Victoria*

### Keeping watch on active plant pests

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

### Problem weeds - management to minimise impact

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

### Management tweaks making a difference with canola and lentil establishment success rates

Glenn will present on the learnings from the recent comprehensive crop establishment paddock survey, key factors that affect establishment and more importantly, what can be done to increase establishment. Glenn McDonald, *The University of Adelaide*

### Aphid and insecticide resistance management in oilseed and pulse crops

Research to help manage aphid infestation and minimise their impact on crop performance. Update on resistance issues. Marielle Babineau, *cesar*

### Biology of nitrogen release from pulses

The breakdown and release of N from various pulse crops will be addressed in this discussion. Gupta will also explore the factors which affect release and the duration of N benefit to following crops. Gupta Vadakkattu, *CSIRO*

### Latest research for improving management of snails

Update on the latest practical implications from research that will improve the management of snails. Greg Baker, *SARDI*

### Emerging research from La Trobe University students

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

# Day 2 program

9.00 am to 3.00 pm

## Early Risers – GRDC Communities of Practice Panel Session – 8.15 am start

The GRDC Communities of Practice help the needs of rural regional Australia for the extension of knowledge and to enable collaboration on important issues. Experts from the Crop Disease community will be present for a robust Q&A discussion

## PLENARY PRESENTATIONS

### Food and diet trends affecting the grains industry

Sara is the General Manager of the Grains and Legumes Nutrition Council. She is an Advanced Accredited Practising Dietitian with over 20 years experience in the health and food industry. She will discuss opportunities arising from the shift of some western diets from red meat to more plant-based protein and will also present on the attitudes and understandings of legumes in the diet and the 'hot' topic of plant-based meat substitutes.



**Sara Grafenauer,**  
*Grains and  
Legumes Nutrition  
Council*

### Breaking through the big yield constraints – where to next?

What opportunities will arise to overcome the big yield constraints in wheat (& other crops) over the next 5 to 10 years? James will present on what role 'transformation agronomy' will have as we look at the future possibilities and challenges. James is an Associate Professor in Crop Agronomy at La Trobe University. He leads a research group of post-graduate students undertaking research aimed at improving productivity, profitability and sustainability of the Australian grains industry.



**James Hunt,**  
*La Trobe University*

## CONCURRENT PRESENTATIONS

### Canola roots and water use – big is not always best

Research that is looking at the ongoing effects from deep rooted canola types and the legacy implications. John Kirkegaard, *CSIRO*

### Deep ripping – does it work for all situations?

Roger will revisit research that provides hard evidence as to when deep ripping cannot be expected to provide improvements in crop production. Roger Armstrong, *Agriculture Victoria*

### Spotlight on pulses

Jason will cover the hot topics from the 2019 pulse agronomy trials and an update on performance of the new pulse varieties. Garry will update on the breeding work done on herbicide tolerant pulse varieties, their performance and management implications. Jason Brand and Garry Rosewarne, *Agriculture Victoria*

### Soil acidity - sampling and lime incorporation under review

How should we be soil sampling? Incorporating lime, is it essential? Lisa will address the big questions currently being asked regarding pH and liming. Lisa Miller, *Southern Farming Systems*

### Integrating new chemistries in the field

With several new pre-emergent chemicals either available or on the horizon, Chris will discuss the resistance data on current pre-em products and best use of the new chemistries to prolong their impact. Chris Preston, *The University of Adelaide*

### Estimating in-crop soil N mineralisation in current cropping systems

There is huge variation with in-crop, soil N mineralisation and as a result new tests have been trialled with improved accuracy in N mineralisation prediction. Katherine Dunsford, *Agriculture Victoria*

### The health report – pulse disease update

Update on management of the most concerning pulse diseases for 2020 including ascochyta blight of pulses. Josh Fanning, *Agriculture Victoria and Sara Blake, SARDI*

### 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. Michael Moodie, *Mallee Sustainable Farming and Frontier Farming Systems*

### European earwigs – an appetite for destruction or are they beneficial?

Results of studies on earwigs which indicate beneficial behaviour and minimal crop loss in certain situations Matt Binns, *CSIRO*

### 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 James Nuttall and Eileen Perry, *Agriculture Victoria*

### High Rainfall Zone research forum

The dedicated HRZ forum will cover three key topics:

- Addressing the yield gap
- Pulse varieties and management for the HRZ
- Phenological triggers for canola that can be manipulated to drive greater yields

Jon Midwood, *SFS*, Keith Norman, *Keith Norman Consultancy Ltd, UK*, James Manson, *SFS* and John Kirkegaard, *CSIRO*

### Use of chemicals and grain residues arising

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

**Barista coffee cart courtesy of Adama**

# EVENT DETAILS



**GRDC**<sup>™</sup>  
GRAINS RESEARCH  
& DEVELOPMENT  
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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 **20 February 2020** will receive a full refund. **There will be no refunds for cancellations received on or after 20 February 2020.** Registration is transferable at any time.

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### Car parking

All day parking vouchers for designated car parks will be available to registered attendees.

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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](http://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](mailto:admin@orm.com.au)

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