

ADELAIDE
SOUTH AUSTRALIA
TUESDAY 7TH AND
WEDNESDAY 8TH
FEBRUARY 2023

GRAINS RESEARCH UPDATE



GRDC
GRAINS RESEARCH
& DEVELOPMENT
CORPORATION

Adelaide Convention
Centre, North Terrace

Day 1 program

8.15 am registration for a 9.00 am start - 5.15 pm

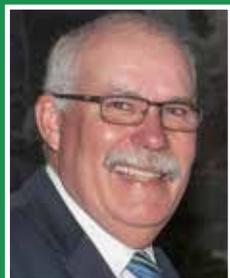
LIVESTREAM AVAILABLE

The main auditorium program will be available via a free livestream. See back page for registration details.

PLENARY PRESENTATIONS

Can our farming systems meet the global challenges of climate change, food security and sustainability?

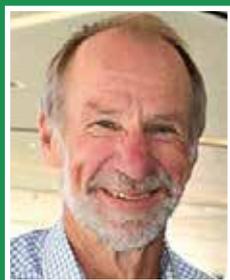
A strategic assessment of production systems as they come under increasing pressure and scrutiny over the next decade. Andrew discusses key global trends in agricultural ecosystems and environmentalism, and objectively assesses the farm policies and systems proposed to meet these challenges. Local implications and a way forward will be outlined.



Andrew Barr,
*Grain grower,
Pinery SA*

Revisiting the levers to maximise wheat yield - an international perspective

What advances in crop nutrition, weed control, seeding systems, crop varieties and other management practices have increased yields or efficiency of inputs? Allan reports on his recent interactions in the UK, Germany and New Zealand. Re-assessing practices and advances that could be used in Australia to improve grain yields in higher yielding environments.



Allan Mayfield,
*Allan Mayfield
Consulting*

Progress with market driven grain classification systems

Grains Australia designs, maintains and implements varietal classification methods to build value by aligning classification with market demands and opportunities. Megan will update on recent developments in malting barley, wheat quality and pulse classification projects.



Megan Sheehy,
Grains Australia

CONCURRENT PRESENTATIONS

Powdery mildew management update

Powdery mildew has been an ongoing challenge for SA wheat growers, particularly over the last two years. With fungicide resistance on the rise, there is a need to ensure you have the right management strategy in place. Join Sam and Tara to learn how to effectively manage powdery mildew. **Sam Trengove, *Trengove Consulting*** and **Tara Garrard, *SARDI***

Novel seed traits - an update on recent R & D

Learn about the development of additions to the varietal toolbox as Greg provides a showcase of varietal traits on the horizon. Discover the newfound opportunities for early sowing that are emerging from novel seed traits. **Greg Rebetzke, *CSIRO***

Soil Water Now - useful tools for measuring soil water

Unlock your soil water data to aid in on farm decision making. Tom provides insight into utilising 'Soil Water Now', including determining best fertiliser rates based on quantifying the soil moisture profile prior to planting. **Tom Bishop, *University of Sydney***

Deep P placement, nutrition on calcareous soils and potassium response

Develop strong soil nutritional foundations as Nigel provides insights into recent research on the strategic management of phosphorous, potassium and calcareous soils. **Nigel Wilhelm, *SARDI***

Comparing the impact of weed seed destructors on the weed seed bank

Explore the impacts of weed seed destructors on the weed seed bank of hard to control weeds. Sam provides an overview of the effectiveness of weed seed destructors and their place within an integrated weed management strategy. **Sam Trengove, *Trengove Consulting***

Effective management of Septoria and stripe rust

Don't let stripe rust and Septoria hit your back pocket this season. Tara provides strategies for keeping fungicide resistance in check while reinforcing the importance of integrated disease management. **Tara Garrard, *SARDI***

Implications of the new cultivar phenology classification

Discover how a new cultivar classification scheme is utilising data driven insights to classify cultivar phenology. Learn how the classification leverages thermal time to effectively match crop life cycle with seasonal conditions. **Corinne Celestina, *University of Melbourne***

Optimising canola in diverse environments with phenology

Unlock canola phenology insights for new varieties in your region with the GP-APSIM-NG model. Chris identifies how genomics is assisting breeders when selecting germplasm best suited to Australian growing environments. **Chris Helliwell, *CSIRO***

Amelioration of sandy soils - the key profit levers

The levers for profit when ameliorating sandy soils are unveiled. Therese explains how to best tackle sandy soil amelioration by having a deeper understanding of the constraint being managed from a whole farm perspective. **Therese McBeath, *CSIRO***

Benchmarking attitudes to pest management and results of IPM demonstrations on RLEM control

Current agronomist and grower attitudes to pest management are revealed for the industry. Lizzy also explains how insights from IPM demonstrations can minimise unintended impacts of traditional chemical-based control strategies. **Lizzy Lowe, *CESAR***

Broadleaf weed control and crop safety in lentils

Keep crop safety front of mind when growing lentils this season. Jordan and Navneet take a deep dive into the factors influencing crop safety - exploring areas such as soil type, pH, tank mixing and rates. **Jordan Bruce, *Trengove Consulting*** and **Navneet Aggarwal, *SARDI***

A resistance update on broadleaf weeds

This presentation will showcase the latest broadleaf weed outcomes from the nationwide random weed survey. Peter will discuss strategies and trends for effective management of broadleaf herbicide resistance. **Peter Boutsalis, *Plant Science Consulting***

Networking drinks and food in the trade display area courtesy of AGT 5.15 pm – 6.45 pm

Day 2 program

9.00 am to 3.00 pm

PLENARY PRESENTATIONS

Can we survive without glyphosate? Lessons learned from Europe, Canada and Argentina

Glyphosate has been the backbone of minimum and no-till farming systems for over half a century. Harm's presentation explores the impacts of a scenario without glyphosate and how a looming possible ban in the EU will impact upon grain producing countries and the world.



Harm van Rees,
Cropfacts

The impact of soil characteristics and environmental factors on Reflex® and Overwatch® efficacy

Delve into how new pre-emergent herbicide formulations are impacted by soil characteristics and the surrounding environment. Mark places Reflex® and Overwatch® under the microscope by tackling common challenges faced by growers.



Mark Congreve,
ICAN

Barista coffee cart courtesy of
ADAMA

CONCURRENT PRESENTATIONS

Emerging research on PGRs in high yielding environments and the photothermal quotient

Kenton identifies key strategies to unlock the potential of cereal crops within high rainfall environments. Discover how photothermal quotient and PGR's can be leveraged to maximise yield. **Kenton Porker, CSIRO**

Fungicide resistance update in cereals

Disease pressures from the 2022 growing season are putting fungicide resistance front of mind for the industry. Fran provides insight into implementing an integrated disease management strategy to effectively counter the increasing threat of fungicide resistance. **Fran Lopez, Centre for Crop Disease Management (CCDM)**

Frost mitigation in pulses and early sowing opportunities for lentils and faba bean

Maximise the yield of pulse crops this season. Penny provides key insights for mitigating the impacts of frost on yield as well as identifying sowing timing opportunities for lentils and faba bean. **Penny Roberts, SARDI**

Key messages & outputs from the frost learning centre

The impacts of frost are worsening for South Australia's Central and Lower Eyre Peninsula growers. Mick provides insights into how phenology, dual purpose cereals, agronomics and ice nucleation impact upon the outcome of frost events. **Mick Faulkner, Agrilink**

Pulse disease wrap

The 2022 season has provided a series of pulse disease challenges for SA growers. Sara provides an executive overview of pulse diseases as well as sharing key insights from pathogenicity testing work in lentils and faba beans. **Sara Blake, SARDI**

An update on the current rust situation in cereals

Stripe rust is a topical issue due to its prevalence during 2021-22. Robert delves into changes in pathotype and varietal response as well as fungicide insensitivity for stripe rust in wheat and barley. **Robert Park, University of Sydney**

Soil amelioration - where will it pay dividends?

A run of high yielding seasons combined with rising land prices has placed soil amelioration in the spotlight. Roger will provide a synthesis of over 5 years of data spanning across 70 long term monitoring trials. **Roger Armstrong, Agriculture Victoria**

Reducing reliance on artificial fertilisers

Farming systems are becoming increasingly dependent on artificial fertilisers. Bonnie quantifies the production, economic and environmental impacts of different fertiliser options to close the yield gap in Australia. **Bonnie Flohr, CSIRO**

The effects of zinc phosphide on mouse control

With mice constantly lurking as an issue, growers are wondering how to receive the best bang for their buck. Are the double strength baits worth the money? Steve provides practical information to maximise the impact of baits. **Steve Henry, CSIRO**

Northern insights for the control of Feathertop Rhodes grass

Feathertop Rhodes grass is rapidly becoming a problem weed for the region. Will new formulations be enough to keep the weed at bay? Mark provides valuable insights from the Northern Region where they have tackled this problem weed. **Mark Congreve, ICAN**

The mechanics of high-performance inclusion ripping

Discover the key drivers of high-performance inclusion ripping. Chris' presentation provides guidance on plate design, machine setup and field operation to effectively achieve high-capacity inclusion at a targeted depth. **Chris Saunders, University of South Australia**

Charging station courtesy of **PIONEER SEEDS**

EVENT DETAILS



IMPORTANT INFORMATION

Registration options

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

Main auditorium livestream - Free

Click here to register and pay online

Cancellation

Cancellations prior to **4 February 2023** will receive a full refund. **There will be no refunds for cancellations received on or after this date.** Registration is transferable at any time, contact ORM.

Car parking

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

Catering

Food and beverages are provided throughout the day.

Accommodation

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

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 2023.

Industry supporters

Opportunities for industry supporters are available. For details contact bev@orm.com.au

Contact details

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