

ADELAIDE
SOUTH AUSTRALIA
TUESDAY 20TH AND
WEDNESDAY 21ST FEBRUARY 2018

GRAINS RESEARCH UPDATE

STRATEGIC STEPS – ENDURING PROFIT



GRDC[™]
GRAINS RESEARCH
& DEVELOPMENT
CORPORATION

Adelaide Convention
Centre, North Terrace

Day 1 program

8.30 am registration for a
8.55 am start - 5.30 pm

PLENARY PRESENTATIONS

The pulsating pulse – expansion of high value pulse crops

The quantity of pulses being produced is rapidly expanding. Is demand and price sustainable; will the bubble burst? This session will give an insight into the markets, new opportunities and key messages from recent global forums.

Ron has over 30 years' experience in the Australian grains and agribusiness sector, primarily in grain marketing. He knows the value chain from pre-farm gate to end consumers, both locally and internationally. Ron has run Storey Marketing Services since 2000 and developed Australian Crop Forecasters (ACF). Ron retains a consulting role to both ACF and Profarmer.

Ron is currently Chairman of Pulse Australia, and a Director of Australian Export Grains Innovation Centre (AEGIC) and Mallee Sustainable Farming Inc.



Ron Storey,
Pulse Australia

Hands free farming - is automated grain growing possible?

Martin Abell joined Precision Decisions Ltd after graduating from Harper Adams University, UK with a master's degree in agricultural engineering. He successfully completed the world's first autonomous full cultivation of a crop of spring barley, without operators in the driving seat or agronomists on the ground.

As an undergraduate Martin completed his thesis researching the effects of tillage and traffic systems upon soil, further working within a group project developing an autonomous sprayer demonstration unit for the university. Each providing the footings for his career within agriculture, working towards an improved, more sustainable, precision farming system.



Martin Abell,
Precision Decisions Ltd

The art of communicating science and recognising the 'snake oil'

Jenni is the owner/director of Econnect Communication, a science communication agency. She also lectures in science communication at the University of Rhine-Waal in Germany. Jenni's vision is to bring science to life so people can make more informed decisions about science and its role in their lives.

Whether you're a researcher or an agronomic adviser you're charged with the role of communicating science. How well you do may impact the motivation of growers to engage in practice change. Jenni will explain the art of good science communication, based on 28 years working as a science communication practitioner and researcher.



Jennifer Metcalfe,
Econnect Communication

CONCURRENT PRESENTATIONS

Canola harvest management - new data busts myths

Direct heading and windrowing – catch up on the latest thinking, including Podguard™ trait technology trials and changes to windrow timing.

Maurie Street, *Grain Orana Alliance*

Driving increased competitiveness in cereals

Greg will cover GRDC's investment into weed management research including crop competitiveness, crop management and new technologies. He will also outline some of the new traits he is working on in the breeding of competitive wheats. Greg Rebetzke, *CSIRO*

Are the Russian forces building – what are our spies telling us?

Maarten has been pursuing this pest since it was first reported in Australia during the 2016 cropping season. He will provide an overview of the last two years of field experiments; including new data on population dynamics and insecticide seed treatments.

Maarten van Helden, *SARDI*

Herbicide and weed management - latest research

There's always something new to learn in the management of weeds and Chris never fails to deliver. Get the latest herbicide resistance results and discuss options for the management of new 'problem weeds', particularly broadleaf weeds in broadleaf crops.

Chris Preston, *The University of Adelaide*

Pulses - technical research supporting the expansion of pulses

All the latest pulse management tips you need to know heading into a new season.

Jason Brand, *Agriculture Victoria* and Christine Walela, *SARDI*

Best options for optimal performance from inoculants

Matt will discuss inoculant types, their impact on legume performance, best options for dry sowing, compatibility with additives and new inoculant strains. Matt Denton, *The University of Adelaide*

Getting the best from barley in the South

An update on yield gains through time of sowing, manipulating canopy structure and alternative phenology patterns. Are new introduced lines here to stay and do they require different management to Australian bred varieties? Kenton Porker, *SARDI*

Canola performance - insight into the key management points to get it right

An update on canola varieties and best-practice agronomy taking into account varietal differences. Andrew Ware, *SARDI*

Cereal disease update - focus on eyespot and crown rot

Get the latest on the potential magnitude of yield loss from eyespot infection and the effect of fungicide resistance on inoculum carryover. Advice on selecting the best cereal for paddocks with medium risk of yield loss due to crown rot. Marg Evans, *SARDI*

NVT - wheat results and trends that matter to SA agronomists

Wheat variety review and tips to getting more from NVT Online.

Rob Wheeler, *GRDC*

In field monitoring update - plant available water capacity, soil moisture mapping, canopy temperature and more

Leighton will outline the latest developments with in field moisture monitoring, including soil moisture mapping, temperature sensors and other emerging technology. Leighton Wilksch, *Agbyte*

Fungicide resistance - recent discoveries pave the way to better understanding of resistance mechanisms

Management advice given the latest discoveries of fungicide resistance in Australia. Fran Lopez-Ruiz, *Centre for Crop and Disease Management, Curtin University*

Cereal root diseases - current status on impact, detection and management

Alan will summarise the latest research on resistance to root lesion nematodes in cereals, pulses and oilseeds and their associated yield loss. Plus new tests for sclerotinia and ascochyta blight of chickpea.

Alan McKay, *SARDI*

Emerging research from PhD students

Onesmus Kitonyo and Daniel Menadue

COMPLIMENTARY NETWORKING DRINKS

Day 2 program

9.00 am to 3.00 pm

PLENARY PRESENTATIONS

How to keep yourself at peak performance

Decisions, decisions, decisions – it's a constant in every adviser's life. Some don't think twice about their recommendations whereas others will overthink and worry about an adverse result. How do you best manage this to avoid being overwhelmed and ensure you stay on top of your game? Mark will talk strategies to stay in a high performing, positive and proactive mindset while remaining empathetic to your clients' situations.



Mark McKeon,
MMA TEAM Pty Ltd

Mark is the designer of the innovative and widely practiced 'Every Day Counts' and 'Go Zone' training programs. Mark's background includes 18 years in the AFL as a player and high performance coach, including five years with the Victorian State of Origin team. He is now a Director of MMA TEAM Pty Ltd, specialising in leadership development, resilience and workplace effectiveness. Mark's quality information and entertaining style have been acknowledged with numerous national and international presentations to a variety of sectors and audiences.

Achieving the best blend of harvest weed seed control (HWSC) methods for your situation

It's time to take stock. As windrow burning loses favour how do chaff-lines and chaff-decks stack-up? What are the pros and cons that advisers need to be aware of? What impact will stripper fronts have on HWSC?



Peter Newman,
AHRI, Planfarm Pty Ltd

Peter Newman is the leader of communications at the Australian Herbicide Resistance Initiative (AHRI), continuously striving to find new ways to deliver messages to manage resistant weeds. After 20 years of delivering this message as an Elders agronomist, DAFWA researcher and now with AHRI, you may think that he has run out of things to say. But recent research by AHRI staff has Peter more convinced than ever that the only answer to our herbicide resistant weed problems is to target the seedbank.

CONCURRENT PRESENTATIONS

Controlled traffic farming (CTF) in the low rainfall zone - what does the data tell us

Is CTF just for the medium-high rainfall zones or can similar benefits be extracted in the low rainfall zone? *Nigel Wilhelm, SARDI*

Agricultural machine technology – practical uses now and into the future

How long before drones and autonomous machines do something useful? What is deep-learning and where is that technology heading? *Steven Rees, The University of Southern Queensland*

Weed warriors - update on brome grass and other emerging problem weeds

Latest research on brome grass and other emerging problem weeds plus suitability of different weed species for seed capture at harvest. *Sam Kleemann and Gurjeet Gill, The University of Adelaide*

Septoria tritici update and latest developments in powdery mildew management

Get the latest facts on managing these diseases in the face of increased fungicide resistance. *Nick Poole, FAR Australia*

Researching management practices to improve productivity on sandy soils

Sam's research over the last three years has unearthed some interesting results with respect to longevity of treatment responses and overall return on investment. *Sam Trengove, Trengove Consulting*

Canola - blackleg management update

Is upper canopy blackleg infection worsening? Does it vary with variety? Are we walking a tightrope with an over-reliance on OPTTs? Also an introduction to the new blackleg app developed by the national canola pathology team. *Steve Marcroft, Marcroft Grains Pathology*

Mice - learning from 2017. Looking to 2018

What have we learnt from our 2017 experience? Steve will reflect on breeding dynamics and potential carryover to 2018, bait types, effectiveness of combining with other pest baits, new research on spring baiting and potential new actives. *Steve Henry, CSIRO*

Insects, resistance and control

Hear the latest on mite and aphid resistance, and balancing the scales on choice of insecticide. *James Maino, cesar*

Weather and seasonal forecasting - science or fiction?

This talk will look at previous autumn periods and how models have and haven't coped. It will also give indicators as to when autumn forecasts might be relied upon. *Dale Grey, Agriculture Victoria*

Nitrogen dynamics in modern cropping systems

Advanced nitrogen update – availability and mineralisation; how this impacts on fertiliser recommendations. Jeff will include an overview of what we know about nitrogen, management practice impacts, N behaviour in stubble retained systems and current research areas. *Jeff Baldock, CSIRO*

Impact of livestock on paddock health

Summary of a nine year project to assess the systems impact of grazing on crop/pasture production and soil health. *Jessica Crettenden, SARDI*

EVENT DETAILS



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IMPORTANT INFORMATION

Registration options

Cost:	\$250 one-day inc. GST		\$350 two-days inc. GST
Student:	\$80 student one-day inc. GST		\$150 student two-days inc. GST
Extra proceedings:	\$60 for pick up inc. GST		\$80 posted inc. GST

[REGISTER HERE](#)

Early bird registration

Early bird registration closes **19 January 2018**. Register early to go into the draw to win a free registration for the 2019 GRDC Grains Research Update in South Australia.

Cancellation

If cancellation of your registration is necessary, please contact ORM with details. Cancellations prior to **15 February 2018** will receive a full refund. **There will be no refunds for cancellations received on or after 15 February 2018**. Registration is transferable at any time.

Car parking

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

Catering

Food and beverages are provided throughout the day.

Accommodation

A link to accommodation options is available via the ORM 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.

Industry supporters

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

Contact details

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