



# 2023 Australian Summer Grains Conference



## MONDAY 13th March 2023

|                 |   |   |
|-----------------|---|---|
| 11.30 - 6.00pm  | Registration  |   |
| 8.30 - 1.00pm   | Golf Shot Gun Start                                     | <i>Sponsored by Syngenta</i>  |
| 11.30 - 12.00pm | Young Leaders Forum Lunch                               | <i>Sponsored by Pacific Seeds</i>   |
| 12.00 - 5.00pm  | Young Leaders/Future Generations Forum                  | ROOM: <i>Karrie Webb &amp; Jacaranda</i><br><i>Sponsored by Elders, Pacific Seeds, PB Agrifoods, QAAFI/UQ</i> |
| 1.00 - 5.00pm   | Farmer Owners Academy Workshop<br><b>Andrew Roberts</b> | ROOM: <i>Marquis Room</i>   |
| 6.30 - 9.00pm   | Welcome Reception                                       | <i>Sponsored by Port of Brisbane</i>  |

## TUESDAY 14th March 2023

|  |  |   |
|--|--|---|
| 7:30am                                     | Registration   |   |
| OPENING PLENARY<br>MC: <b>Joel Gilmore</b> |  | ROOM: <i>Marquis &amp; Monarch</i> <i>Sponsored by Elders</i> |
| 8:30 - 9.00am                              | Role of modern agribusiness in sustainability, innovation, profitability, and resilience | <b>Jamie Brogan</b>   |
| 9.00 - 10.00am                             | Converge: The future of food   | <b>Catherine Ball</b> <i>Sponsored by Intertek</i>            |
| 10.00 - 10:30am                            | Impact of Global Markets on Australian Summer Grains                                     | <b>Andrew Whitelaw</b>  |

### 10:30 - 11:00am Morning Tea *Sponsored by Intertek*

| Concurrent Sessions | ROOM: <i>Marquis</i><br>STREAM: <i>Sorghum</i><br>SPONSOR: <i>Oz Sorghum</i><br>SESSION CHAIR: <i>Chris Willis</i><br>ROOM MONITOR: <i>Tracey Shatte</i> | ROOM: <i>Monarch</i><br>STREAM: <i>Sustainability</i><br>SPONSOR: <i>Elders</i><br>SESSION CHAIR: <i>Graham Page</i><br>ROOM MONITOR: <i>Meg Kummerow</i> | ROOM: <i>Prince</i><br>STREAM: <i>Sunflower</i><br>SPONSOR: <i>ASA</i><br>SESSION CHAIR: <i>Chris Haire</i><br>ROOM MONITOR: <i>Belinda Chase</i>   | ROOM: <i>Karrie Webb &amp; Jacaranda</i><br>STREAM: <i>Mungbean</i><br>SPONSOR: <i>AMA</i><br>SESSION CHAIR: <i>James Hunt</i><br>ROOM MONITOR: <i>Bede O'Mara</i> | ROOM: <i>Norfolk</i><br>STREAM: <i>Alternate Crops</i><br>SPONSOR: <i>Stoller</i><br>SESSION CHAIR: <i>Rex Williams</i><br>ROOM MONITOR: <i>Neal Stevenson</i> |
|---------------------|--|---|---|--|--|
| 11.00 - 11.20am     | Our sorghum story<br><b>Stuart McIntyre</b>  | Towards drought resilient dryland cropping systems using ARMonline.com.au<br><b>Uwe Grewer</b>  | Sunflowers and why I grow them<br><b>Tony Lockrey</b>   | Yield determination in mungbeans under water stress<br><b>Marisa Collins</b>   | Identification of environment similarities to assist the cultivation and breeding of a new crop in a new region using a crop model<br><b>Yash Chauhan</b>      |
| 11.20 - 11.40pm     | Private seed industry research & development endeavours to promote competitive sorghum industry in Australia<br><b>Solomon Fekybelu</b>                  | What is the grain sustainability framework and how does it help growers?<br><b>Shona Gawel</b>  | Can plant growth regulators reduce the height of sunflowers to aid harvestability<br><b>Loretta Serafin</b>   | Identifying climate variables associated with mungbean yield stability<br><b>Alwyn Williams</b>  | Maximising the competitiveness of pigeonpea crops increasing yields while suppressing weeds.<br><b>Troy Frederiks</b>  |
| 11.40 - 12.00pm     | Commercial hybrid seed production in sorghum, challenges and risks<br><b>David Jordan</b>  | Impact of nitrogen pricing on farming system rotational profitability<br><b>James Hagan</b>   | The Blooming of Sunflower in CQ and MIA - current hybrids and the keys to managing disease risk ( <i>Sclerotinia spp.</i> , <i>A rolfsii</i> , <i>Charcoal Rot</i> , <i>TSV</i> ).<br><b>Sue Thompson</b> | Physiological insight to improve mungbean productivity<br><b>Millicent Smith</b>   | Exploring the genetic diversity of pigeonpea<br><b>Bruce Winter</b>  |
| 12.00 - 12.20pm     | Evaluating variation in stem strength in response to artificial drought stress amongst sorghum genotypes<br><b>Geetika Geetika</b>                       | AgCarE - helping farmers measure and capitalise on improving natural capital condition<br><b>Greg Leach</b>   | Harvesting Sunflowers: Getting it right to maintain our markets<br><b>Kevin Charlesworth</b>  | Understanding the genetics of mungbean senescence behaviour using longitudinal UAV data<br><b>Shanice Van Haefen</b>   | Not just a trap crop: pest management in pigeonpea - can it be done?<br><b>Trevor Volp</b>   |
| 12.20 - 12.40pm     | Predicting maize and sorghum yield loss due to pre-anthesis fall armyworm ( <i>Spodoptera frugiperda</i> ) infestation<br><b>Joseph Eyre</b>             | How could corporate sustainability and ESG commitments impact you on farm?<br><b>Shona Gawel</b>  | Sunflower Markets and Opportunities<br><b>Mark Schmidt</b>  | Introducing genomic prediction in mungbeans<br><b>Maria Valeria Paccapelo</b>  | Adopting and adapting sesame in Queensland: a look at potential disease constraints<br><b>Dante Adorada</b>  |

|                |       |                                   |
|----------------|-------|-----------------------------------|
| 12.40 - 1.40pm | Lunch | <i>Sponsored by Pioneer Seeds</i> |
|----------------|-------|-----------------------------------|

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| Concurrent Sessions | ROOM: <i>Marquis</i><br>STREAM: <i>Sorghum</i><br>SPONSOR: <i>AgForce</i><br>SESSION CHAIR: <i>Brendan Taylor</i><br>ROOM MONITOR: <i>Stuart McIntyre</i>        | ROOM: <i>Monarch</i><br>STREAM: <i>Agronomy</i><br>SPONSOR: <i>USO</i><br>SESSION CHAIR: <i>Gillian Meppem</i><br>ROOM MONITOR: <i>Rob Taylor</i>                 | ROOM: <i>Prince</i><br>STREAM: <i>Maize</i><br>SPONSOR: <i>Pioneer Seeds Australia</i><br>SESSION CHAIR: <i>Maree Crawford</i><br>ROOM MONITOR: <i>Belinda Chase</i>  | ROOM: <i>Karrie Webb &amp; Jacaranda</i><br>STREAM: <i>Mungbean</i><br>SPONSOR: <i>Precision Seeding Solutions</i><br>SESSION CHAIR: <i>Mark Schmidt</i><br>ROOM MONITOR: <i>Andrew McDonald</i> | ROOM: <i>Norfolk</i><br>STREAM: <i>Soy</i><br>SPONSOR: <i>PB Agrifood</i><br>SESSION CHAIR: <i>Kate McIntyre</i><br>ROOM MONITOR: <i>Dave Thompson</i>                           |
|---------------------|--|---|---|--|--|
| 1.40 - 2.00pm       | Physiological changes associated with yield gain in US commercial sorghum hybrids<br><b>Paula Demarco</b>  | Basics of biogas production from whole crop maize silage, corn stover, and similar summer crops / crop residues<br><b>Ken Davey</b>                               | Genetic diversity of Johnsongrass mosaic virus and resistance in Australian sorghum, maize, and sweet corn<br><b>Murray Sharman</b>                                   | Why Mungbeans?<br><b>Angus Dalglish</b>  | Soy Australia Grower Address<br><b>Paul Fleming</b>  |
| 2.00 - 2.20pm       | Beginning with the end in mind: defining sorghum ideotypes for future climate scenarios<br><b>Andrew Borrell</b>   | Carbon Farming. Where do I start? How do I account for Carbon and reduce Greenhouse Gas Emissions?<br><b>Chris Taarnby</b>  | Phenotypic and genotypic diversity of Puccinia sorghi in Eastern Australia: implications for maize breeding programs<br><b>Aurelie Quade</b>                          | Harvest management of mungbeans – can we do better?<br><b>Jayne Gentry</b>   | 'Managing residual N from soybeans – implications for fertiliser N requirement in coastal sugarcane systems'.<br><b>Mike Bell</b>  |
| 2.20 - 2.40pm       | Unravelling photosynthetic differences underpinning contrasting radiation use efficiency in field crops<br><b>Alex Wu</b>  | Integrated Farm Management method: enabling credit generation from different carbon pools<br><b>Shanti Mors</b>   | Early alerts for mega-pests: Armyworms, budworms and bollworms<br><b>Nancy Schellhorn</b>   | Mungbean windrowing: Does it work?<br><b>Cameron Silburn</b>   | The charcoal rot challenge<br><b>Sam Blanch</b>  |
| 2.40 - 3.00pm       | Do anatomical traits relate to transpiration efficiency in sorghum?<br><b>Vijaya Singh</b>   | Is new pesticide discovery & commercialisation likely to keep ahead of expected product losses to resistance & regulatory withdrawal<br><b>Mark Congreve</b>      | FORTENZA Duo a new Seed Applied Insecticide for Fall Armyworm in establishing maize & sorghum crops.<br><b>Katie Slade</b>  | Maintaining market access for pulse crops like Mungbeans by looking at the international changes and activities by our overseas trading partners<br><b>Jenna Garwood</b>                         | Opportunities and risks for planting soybean in spring in NSW<br><b>Nathan Ensbey</b>  |
| 3.00 - 3.20pm       | The genetic control of grain filling duration in sorghum<br><b>Daniel Otwani</b>   | GRDC Sustainability Initiative<br><b>Peter Carberry</b>   | Fall Armyworm: which crops are really at risk?<br><b>Trevor Volp</b>  | Advantages of Australian grown Mungbeans - our worldly access to markets<br><b>James Hunt</b>  | An investigation into foliar fungicide application for Anthracnose control in two varieties of soybean grown in a North Queensland sugarcane farming system.<br><b>Nick Hill</b> |
| 3.20 - 3.50pm       | <b>Afternoon Tea</b>   |   |   |  | <i>Sponsored by Barenbrug</i>  |
| Concurrent Sessions | ROOM: <i>Marquis</i><br>STREAM: <i>Sorghum / Agronomy</i><br>SPONSOR: <i>DAF</i><br>SESSION CHAIR: <i>Craig Ward</i><br>ROOM MONITOR: <i>David Jordan</i>        | ROOM: <i>Monarch</i><br>STREAM: <i>Sustainability</i><br>SPONSOR: <i>AgriVentis</i><br>SESSION CHAIR: <i>Scott Campbell</i><br>ROOM MONITOR: <i>Belinda Chase</i> | ROOM: <i>Prince</i><br>STREAM: <i>Maize</i><br>SPONSOR: <i>Incitec Pivot</i><br>SESSION CHAIR: <i>Rob Johnston</i><br>ROOM MONITOR: <i>Bede O'Mara</i>                | ROOM: <i>Karrie Webb &amp; Jacaranda</i><br>STREAM: <i>Mungbean</i><br>SPONSOR: <i>GrainGrowers</i><br>SESSION CHAIR: <i>Andrew McDonald</i><br>ROOM MONITOR: <i>Rob Taylor</i>                  | ROOM: <i>Norfolk</i><br>STREAM: <i>Soy</i><br>SPONSOR: <i>AgriFutures</i><br>SESSION CHAIR: <i>Nick Goddard</i><br>ROOM MONITOR: <i>Kate McIntyre</i>                            |
| 3.50 - 4.10pm       | Integrating the confounding effects of high temperature stress, drought, and radiation on grain yield in sorghum<br><b>Erik Van Oosterom</b>                     | Travel a key pest pathway<br><b>Kym McIntyre</b>  | Agricultural and agri-industrial aligned circular economy systems that can be enabled by an industrial scale, world's-best-practice biogas plant.<br><b>Ken Davey</b> | Insect pest management in summer pulses - challenges and opportunities<br><b>Hugh Brier</b>  | Developing 'Best Management Practices' for storage of pulses.<br><b>Manoj Nayak</b>  |
| 4.10 - 4.30pm       | CropGen: A novel tool for optimising sorghum crop design<br><b>Genevieve Durrington</b>  | NSW Khapra beetle response and risks associated with shipping containers<br><b>Kate Glastonbury</b>   | Silage preservation for maximum animal performance & Technological advances in silage inoculants<br><b>Jason Scott</b>  | Mungbean; the perfect fit in Northern Region farming systems<br><b>Paul McIntosh</b>   | Soybean End User Panel<br><b>Chair: Dom Hogg</b><br><b>Panel: Peter Brodie, Ross Larsson, Lloyd Neilsen, Maryann Salvetti</b>  |
| 4.30 - 4.50pm       | Digital and genomic technologies to unlock the genetic potential of the Australian Grains Genebank for food security and future climates.<br><b>Sally Norton</b> | Grain storage in northern Australia: Pest and resistance diagnostics and its implications for industry<br><b>Rajeswardan Jagadeedan</b>                           | Heat stress effects on corn and the potential impact on corn growing in Australia<br><b>Stephen Wilson</b>  | Mungbean germination, early growth and cold tolerance<br><b>Sachesh Silwal</b>   |  |
| 4.50 - 5.10pm       | Developing sorghums for craft malting and brewing<br><b>Glen Fox</b>   | Biologicals – Snake oils or new age solutions<br><b>Maree Crawford</b>  | Sustainable production & marketing of maize in a changing climate<br><b>Andrew Cogswell</b>   | What are the impacts of applying nitrogen to mungbean crops?<br><b>Douglas Sands</b>   |  |
| 5.10 - 5.30pm       | Impact of processing on the phenolic content and antioxidant activity of sorghum (Sorghum bicolor L.Moench)<br><b>Aduba Jok</b>                                  | Hiding in Plain Sight - Green and Brown Weed Bridges Aiding Survival of Damaging Broadacre Summer Crop Pathogens<br><b>Sue Thompson</b>                           | Maize Grower Panel<br><b>Andrew Cogswell, Brendan Wheildon, Johannes Roellgen</b>   | The right tools for the right job: fine-tuning a decision support tool for fungicide management of mungbean powdery mildew<br><b>Lisa Kelly</b>  | Growing a competitive soybean crop to the detriment of weeds in your farming systems<br><b>Paul McIntosh</b>   |

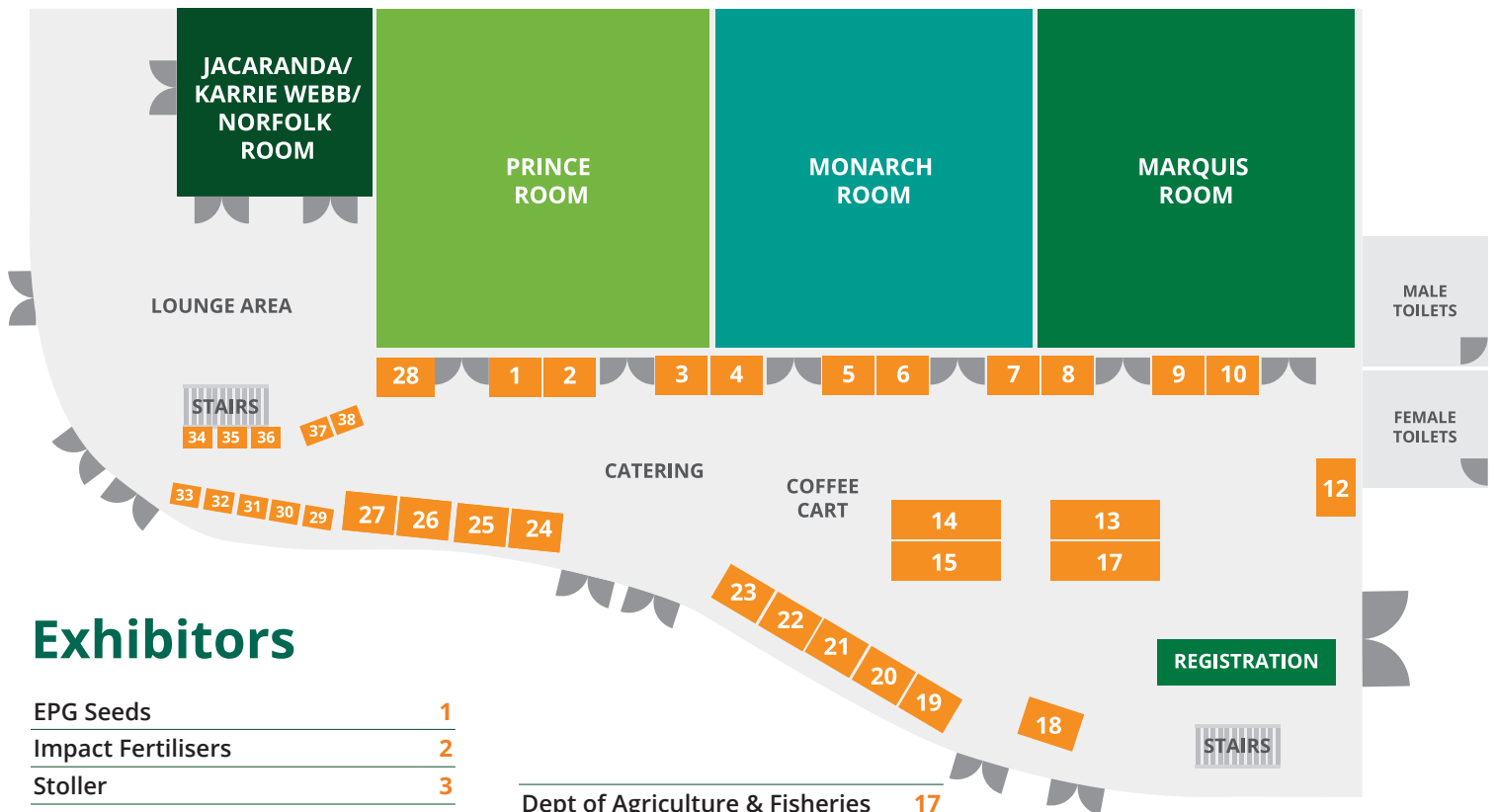
|   |  |  |   |  |  |
|---|--|--|---|--|--|
| 5.30 - 6.30pm   | Beer tasting & appreciation<br>This session has limited numbers. Bookings will be taken at registration onsite   | WHERE: <i>HydraBar</i>   | Facilitator: <b>Glen Fox</b><br>Sponsored by <i>OzSorghum</i>   |  |  |
| 5.30 - 6.30pm   | Maize Association AGM  | ROOM: <i>Prince Room</i>   |   |  |  |
| 6.30 - 9:30pm   | NETWORKING FUNCTION  | WHERE: <i>Poolside</i>   | Sponsored by <i>Department of Agriculture and Fisheries</i>   |  |  |
| <b>WEDNESDAY 15th March 2023</b>                                    |  |  |   |  |  |
| PLENARY DAY 2: Future Farming<br>Session Chair: <b>Joel Gilmore</b> |  | ROOM: <i>Marquis &amp; Monarch</i>   | Sponsored by <i>University of Southern Queensland</i>   |  |  |
| 8:30 - 8.50am   | Seeding ideas for future farming   | <b>Nigel Corish</b>  |   |  |  |
| 8.50 - 9:10am   | Australian biosecurity and threats to the grains industry  | <b>Callum Fletcher</b>   |   |  |  |
| 9:10 - 9.30am   | Precision agriculture soils sensing  | <b>Ben Taylor</b>  |   |  |  |
| 9.30 - 9.50am   | How agriculture can benefit from the space race  | <b>Tim Neale</b>   |   |  |  |
| 9.50 - 10.10am  | Net zero emissions – new opportunities and new markets for grains  | <b>Damian Hine</b>   |   |  |  |
| 10.10 - 10.30am   | <b>Panel session</b>   |  |   |  |  |
| 10.30 - 11.00am   | <b>Morning Tea</b>   | Sponsored by <i>AgriFutures</i>  |   |  |  |
| Concurrent Sessions   | ROOM: <i>Marquis Room</i><br>STREAM: <i>Sorghum</i><br>SPONSOR: <i>Barenbrug</i><br>SESSION CHAIR: <i>David Jordan</i><br>ROOM MONITOR: <i>Chris Haire</i> | ROOM: <i>Monarch</i><br>STREAM: <i>Mungbean</i><br>SPONSOR: <i>Syngenta</i><br>SESSION CHAIR: <i>Kym McIntyre</i><br>ROOM MONITOR: <i>Mark Schmidt</i> | ROOM: <i>Prince</i><br>STREAM: <i>Maize</i><br>SPONSOR: <i>Alvan Blanch</i><br>SESSION CHAIR: <i>Steve Wilson</i><br>ROOM MONITOR: <i>Johannes Roellgen</i>   | ROOM: <i>Karrie Webb &amp; Jacaranda</i><br>STREAM: <i>Agronomy</i><br>SPONSOR: <i>Tech Elders AgTech</i><br>SESSION CHAIR: <i>Graham Page</i><br>ROOM MONITOR: <i>Belinda Chase</i> |  |
|   | 11.00 - 11.20am  | Can sorghum establishment be improved under sub-optimal soil temperatures<br><b>Loretta Serafin</b>  | Genomic resource development for mungbean advancement ( <i>Vigna radiata</i> ) through the International Mungbean Improvement Network (IMIN)<br><b>Thomas Noble</b>   | Maximise early growth and vigour using liquid Corn Popup TM fertilizer to achieve higher maize yield.<br><b>Scott Palmer</b>   | Predicting residual herbicide damage on grain crop seedlings<br><b>Kerry Bell</b>  |
|   | 11.20 - 11.40am  | Water productivity of sorghum sown under sub-optimal soil temperatures<br><b>Malem McLeod</b>  | Population genomic and phenotypic studies of <i>Curtobacterium flaccumfaciens</i> pv. <i>flaccumfaciens</i> , and implications for mungbean breeding and disease management<br><b>Niloofar Vaghefi</b>            | Maize N fertiliser rate and application timing in the ORIA to better inform future management<br><b>Jack Daniel</b>  | Herbicide resistance levels and the future<br><b>Paul McIntosh</b>   |
|   | 11.40 - 12:00pm  | 3D characterization of crop water use and the rooting system.<br><b>Dongxue Zhao</b>   | Characterisation of the bacterial pathogen <i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i> causal agent of halo blight disease in mungbean and its detection in seed lots using qPCR<br><b>Thomas Noble</b> | Meeting Consumers' Sustainability Demands<br><b>Imogen King</b>  | Single Shot: Broadacre UAV Weed Mapping for Spot Spraying<br><b>Ben Single</b>   |
|   | 12.00 - 12.20pm  | Does sorghum row configuration influence residual soil water post-harvest?<br><b>Loretta Serafin</b>   | Breeding technologies to develop summer pulse crops<br><b>Lee Hickey</b>  | The validation of on farm trials<br><b>Gus Hodgkinson</b>  | The area wide weed management project: Using genetics to understand movement and the spread of glyphosate resistance in Feathertop Rhodes grass<br><b>James Hereward</b> |
|   | 12.20- 12.40pm   | Sowing sorghum in winter in the Darling Downs: is it worth it and what are the risks?<br><b>Andrew Zull</b>  | Growing competitive mungbean crops to suppress troublesome summer grass weeds<br><b>Greg Harvey</b>   |  | Moving into the Digital Agronomy age<br><b>Tim Neale</b>   |
|   | 12.40 - 1.40pm   | <b>Lunch</b>   | Sponsored by <i>Stoller</i>   | <b>Women in Ag Lunch</b><br>Panel: <b>Warren Davies</b>  | Sponsored By <i>PB AgriFood</i>  |
| PLENARY 3<br>Session Chair: <b>Joel Gilmore</b>                     |  | ROOM: <i>Marquis &amp; Monarch</i>   |   | Sponsored by <i>Department of Agriculture and Fisheries</i>  |  |
| 1.40 - 2.10pm   | So, you think you are resilient hey?   | <b>Dennis Hoiberg</b>  |   | Sponsored by <i>AgForce</i>  |  |
| 2.10 - 2.40pm   | Fore sighting adaptations to unprecedented change in summer cropping systems   | <b>Daniel Rodriguez</b>  |   |  |  |
| 2.40 - 3.10pm   | Importance of biological solutions and new developments in biological solutions for crops  | <b>Rafael Cano</b>   |   | Sponsored by <i>Stoller</i>  |  |
| 3.10 - 3.30pm   | <b>Afternoon Tea</b>   | Sponsored by <i>AgriVentis Tech</i>  |   |  |  |
| CLOSING PLENARY Session Chair: <b>Joel Gilmore</b>                  |  | ROOM: <i>Marquis &amp; Monarch</i>   |   | Sponsored by <i>GRDC</i>   |  |
| 3.30 - 3.50pm   | GRDC Update  | <b>Peter Carberry</b>  |   |  |  |
| 3.50 - 4.20pm   | Women in Ag: Generations of change<br><b>Panel of 3 women working in agriculture and their views</b>   | Facilitator: <b>Maree Crawford</b>   |   |  |  |
| 4.20 - 4.30pm   | Conference Close   | <b>Maree Crawford</b>  |   |  |  |
| 6.30 - 10.30pm  | ELDERS CONFERENCE GALA DINNER  | ROOM: <i>Ballroom</i>  |   |  |  |

#### Industry Awards

- Significant contribution to Summer Grain Sorghum, Maize, Sunflower, Mungbean, Soybean
- Elders Innovation in Technology Farmer and Industry
- BASF Women in Agriculture
- Bayer Rising Star
- AMA Zoe McInnes Memorial Award
- Suncorp/ASGC Ben Coleman Memorial Award



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## Social Program



Monday 13th March  
**Port of Brisbane  
 Welcome Reception**  
 6.30pm - 9.00pm  
 Marquis/Monarch Room



Wednesday 15th March  
**Elders Gala Dinner**  
*(including industry awards)*  
 6.30pm - 10.30pm  
 Marquis/Monarch Room



Tuesday 14th March  
**Networking function**  
*Sponsored by Department of  
 Agriculture and Fisheries*  
 6.30pm - 9.30pm  
 Poolside (weather dependant)

**Connect #ASGC23**

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