2016 AUSTRALIAN SUMMER GRAINS CONFERENCE DIOGRAM





"The real value of the GrowNotes concept lies in their ability to offer something for everyone, whether it's the latest information on plant populations or row spacing, crop nutrition, spray rates, stubble management or marketing.

"The information is at growers' fingertips, anytime of the day or night, and being digital means the content can be updated as soon as new research information comes to hand."

Rob Long, Senior agronomist, B&W Rural Moree

⁴⁴ The GrowNotes are a terrific use of levies and I like to see GRDC doing this type of work. The industry has been screaming out for this type of resource and I encourage other growers to have a look and be aware of what's on offer. ⁹⁹

GRDC

Maize

James Kahl

Merced Farming Pty Ltd, Wee Waa welcomes GRDC's agronomic resource, the GrowNotes



GRDC

Sorghum

GRDC

Mungbeans

GRD

Sunflowers

www.grdc.com.au/GrowNotes

RACV Royal Pines Resort Ross Street, Ashmore Gold Coast, Queensland



7 - 9 March 2016

Welcome



Dear Colleagues,

On behalf of the Organising Committee and the Joint Venture Partners it is my pleasure to welcome you to the third Australian Summer Grains Conference in the vibrant setting of RACV Royal Pines Gold Coast.

The Australian Summer Grains industry will be showcased to both national and international customers, suppliers and stakeholders over the next three days. The conference program while diverse plays a pivotal role in providing information on up to date solutions to key challenges for our industry. Our local and international line up of speakers will provide a platform for continued dialogue relative to new technology, practices, genetics and in some cases revolutionary solutions. Our sponsors and exhibitors have played a very important part in this conference and we are committed to ensuring they receive maximum value for their investment and we warmly welcome them.

The social program will also provide the opportunity for you to catch up with friends and colleagues and exchange ideas.

We hope you enjoy the conference and look forward to catching up with you in the social functions to relax and wind down at the end of the day.

Sincerely

mareland

Maree Crawford Chair Australian Summer Grains Conference.

australiansummergrains.com.au

MONDAY 7th MARCH 2016				
11.30am - 6.00pm	REGISTRATION			
12.00pm	GOLF SHOT GUN START			
1.00pm - 5.00pm	Industry Development Workshop: "HONING YOUR MOST POWERFUL WEAPON -YOU The Right Mind - David Hanlon: ARC Group - Don McDougall: Sinochem - Scott Cam > Building Stronger relationships to benefit your professional and personal life (covers succession planning)		em – Scott Campbell onal life (covers	
	 Extracting optimum benefits from any situation, especially in the area of risk management through strategic thinking skills and decision-making process Getting better outcomes from people through managing/negotiating/dealing with difficult people 			
6:00pm – 8:00pm	WELCOME RECEPTION	NAND OPENING OF TR	ADE	
TUESDAY 8TH MARCH 2016				
7:30am - 5:00pm	REGISTRATIONS OPE	N		
8:30am - 9:00am	Conference Opening: Alexandra Gartmann, CEO Rural Bank Australia Session Chair: Gerry Gannon Sponsored By: GRDC			
9:00am - 10:00am	Keynote Presentation: I	Dr Karl Kruszelnicki		
10:00am - 10:30am	Women in Agriculture:	"Bridging the gender ga	p for the future of grain	s": Maree Crawford
10:30am - 11:00am	MORNING TEA			
Concurrent Sessions	MARQUIS ROOM Sponsor: Sorghum Association Session Chair: Gerry Gannon	MONARCH ROOM Sponsor: Maize Association Session Chair: Harley Bligh	PRINCE ROOM Sponsor: Intertek Session Chair: Lee Shilvock	NORFOLK ROOM Sponsor: PB Agrifoods Session Chair: Peter Brodie
	The impact of environment on productivity trends of sorghum and wheat in Australia: Andries Potgieter	Latest Developments in US Specialty Corn Crops: Mark Macrander	The rise and rise of mungbean: James Hunt	The adoption of raised bed farming systems in the north coast soybean industry: Domonic Hogg
11:00am - 12:30pm	Sorghum pre- breeding: traits development, deployment and impact: David Jordan	Maize Marketing Strategies & Opportunities: Andrew Cogswell	Success in breeding and research transforms mungbeans into 'money beans": Rex Williams	Effect of row spacing and plant population on crop growth, yield, water-use efficiency and N contribution of soybean grown in two contrasting rain-fed environments: Kerry McKenzie
	Commercial Plant Breeding in sorghum: Ivan Calvert	Maize improvement: Steve Wilson	Mungbean as a functional Food Stephen Donnelly	Soybean response to population and row spacing in the Coastal Burnett: Neil Halpin
12:30pm – 1:30pm	LUNCH - SPONSORED BY SOCIETA COFICA		POSTER PRESENTAT	IONS







Grains Research & Development Corporation Your GRDC working with you

2016 AUSTRALIAN SUMMER GRAINS CONFERENCE *Program*



Concurrent Sessions	Sponsor: USQ Session Chair: Adam Sparks	Sponsor: Maize Association Session Chair: Tony Cogswell	Sponsor: SIPCAM Session Chair: Paul McIntosh	Sponsor: GRFL Session Chair: Brendon Taylor
	The sorghum stalk rot diseases: our No. 1 priority: Jo White	Improving dairy productivity and profitability with summer grain and legume forages: David G Barber	Pest management in Australian summer pulses in 2016 whither to from here, current state of play and future challenges: Hugh Brier and Elizabeth Williams	Postharvest storage management to reduce pests and preserve quality: Philip Burrill
1:30pm -3:00pm	Genetic control of nodal root angle in sorghum and its association with drought adaptation: Vijaya Singh	Whyalla Beef high moisture corn as a feed: Gino De Stefani	Multiple Diaporthe/ Phomopsis spp re-emerging and new soybean pathogens and an emerging threat to mungbeans in Australia. Sue Thompson	On-Farm Grain Storage - Profit ? (Good), Breakeven? (Bad) or Loss? (Ugly): Peter Botta
	Stay-green enhances lodging resistance under terminal water deficit in sorghum: Andrew Borrell	Practical application of digital imaging in agricultural systems Peter Birch	New Innovation in Precision Planting: Jose Carramate - Precision Planting USA	Market access and biosecurity for Australian summer grain crops: Sharyn Taylor
3:00pm - 3.30pm	AFTERNOON TEA			
Concurrent Sessions	Sponsor: Rural Bank Session Chair: Gerry Gannon	Sponsor: ASA Session Chair: Kevin Charlesworth	Sponsor: AMA Session Chair: Rob Anderson	Sponsor: Elders Session Chair: Graham Page
	Enhancing the value of grain sorghum for chicken meat production: Ha H Truong	From Hells Gate to the Garden of Eden - the rotational fit of sunflower across northern NSW: Tony Lockrey/ Nathan Ensby	Mungbeans in Northern Australia: Andrew Cross/ Stephen Yates	Funding the Future of Agriculture: Brad Sewell
	Development of sorghum foods for chronic disease prevention: Stuart Johnson	Australian Sunflower Demand Tom Curtain	Profitability from Dryland Mungbeans: Wade Bidstrup	Opportunities in summer crop production in Northern Australia expansion: Graham Harris
3:30pm – 5:30pm	Sorghum flaked cereal biscuits extend short-term satiety responses but do not increase the effectiveness of a weight-reduction diet in humans: Anita Needham	Path to Growth and Prosperity: Australian Sunflower Industry Update: Liz Alexander	Mungbeans – The Enigmatic Legume: Ian Crosthwaite	Opportunities for Australian agriculture in Asia: Greg Dunne
	Sorghum – an important cereal for human health: Michael Netzel	'IT Sunflowers in Australian cropping systems' Vikki Osten, Chris Haire, Richard Holzknecht	Improving understanding of mungbeans to maximise yield potential and grain quality: Kathi Hertel	Emerging opportunities trends considerations on export markets: Greg Noonan
7:00pm – 9:00pm	ELDERS TECHNOLOG	Y DINNER Elders		

WEDNESDAY 9TH MARCH SPONSORED BY: ELDERS | SESSION CHAIR: CHRIS WILLIS 7:30am - 8:30am REGISTRATION 8:30am - 9:00am United States Crop Decision and Challenges: Kent Martin 9:00am - 9:30am Is agriculture going to get a boost from unmanned aerial vehicles?: Chad Colby Good Data should lead to good policy-does this apply in Agricultural Education and 9:30am - 10:00am Research? Jim Pratley 10:00am - 10:30am Breeding Drought Tolerant Maize for the US Corn-Belt: Mark Cooper 10:30am - 11:00am **MORNING TEA** MARQUIS ROOM MONARCH ROOM PRINCE ROOM NORFOLK ROOM Sponsor: Sponsor: Sponsor: Sponsor: Pope Packaging Rural Weekly Incitec Concurrent Sessions Advanta Seeds Session Chair: Session Chair: Session Chair: Session Chair: **Trevor Philp Gerry Gannon Candyce Braithwaite** Bede O'Mara The biology, genetics, Tactical agronomy Social Media 101: Nutrient Implications and modelling of heat for dryland maize in Meg Kummerow for Central stress effects on grain the northern grains Queensland Sorghum: sorghum productivity: region: **Douglas Sands** Graeme Hammer Loretta Serafin Extreme sorahum for Sub Surface Drip Pros and Cons of Soil mineral nitrogen extreme climates: Irrigation of Maize: Coal Seam Water recoverv and 11:00am - 12:30pm Alan Cruickshank Jeremy Evans for Summer Grain estimation of in-crop Production: mineralisation: David Monckton Mike J Bell Tactical agronomy Is maize a suitable Securing your Future Deep phosphorus for sorghum in the rain fed option for through Advocacy: for sorghum in the northern region: Australia's northern Meg Kummerow northern grains Daniel Rodriguez region: cropping region? **David Lester** Joseph Eyre 12:30pm - 1:30pm LUNCH - SPONSORED BY AGRO COMMODITIES Sponsor: Bean Sponsor: Sponsor: Sponsor: Heritage Seeds **Growers Australia** Elders Nuseed Concurrent Sessions Session Chair: Session Chair: Session Chair: Session Chair: **Chris Haire Todd Jones** Lloyd Neilsen Gerry Gannon Updating the crop Improving Soybean Swarm Farm Sunflower nutrition simulation model for Australian **Robotics:** and irrigation environments, grower APSIM to predict **Andrew Bate** bringing growers and yields of more and consumer white peg trials closer specifically-adapted preferences together: sorghum hybrids Andrew T James Loretta Serafin and **Jason Brider Roland Hornick** The inner workings of The challenges of Phenotyping of Sunflower - what is the Sorghum Midge growing soybeans in sorghum breeding the cost of losing Tested Scheme southern NSW trials through your leaves? 1.30pm-3.00pm **Geoffrey McLeod** Loretta Serafin How are MR ratings proximal sensing assigned and what do technologies: they really mean? Andries Potgieter **Tracey Shatte** Where did it come Farm Business advice: Managing big data "Success with Sunflowers: Experience What advice should from? Pathogens in grain production you use? Who should surviving in crop new opportunities from the Field" you believe? and weed stubble and challenges Mark Rohrich **Rob Taylor** collaborative regardless of presence of live hosts platforms Sue Thompson Mark Pawsey 3.00pm - 3:30pm **AFTERNOON TEA** SPONSORED BY: PIONEER DUPONT | SESSION CHAIR: ROB CROTHERS 3:30pm - 4.00pm Farm innovation: Rod Petersen 4.00pm - 4:30pm Healthy Farmer, Healthy Business: Alison Fairleigh 4:30pm - 5.30pm Securing our future: Wayne Bennett GRDC CONFERENCE GALA DINNER and INDUSTRY AWARDS | MC: Gerry Gannon Significant contribution to Grain Sorghum, Maize, Sunflower, Mungbean, Soybean, Elders 7:00pm - 10:30pm Innovation in Technology Awards, GRDC Farmer Award and Women in Agriculture Award GRDC Grains Research & Development Corporation and the Zoe McInnes Memorial Award

Sponsors

ASGC gratefully acknowledges the following sponsors and exhibitors which have confirmed their support at the time of printing:

PLATINUM SPONSOR

GRDC Grains Research & Development Corporation

The Grains Research and Development Corporation (GRDC) is one of the world's leading grains research organisations, responsible for planning, investing in and overseeing RD&E to deliver improvements in production, sustainability and profitability across the Australian grains industry.

The GRDC's primary objective is to drive the discovery, development and delivery of world-class innovation to enhance the productivity, profitability and sustainability of Australian grain growers and benefit the industry and the wider community.

The GRDC is a statutory corporation, founded in 1990, under the Primary Industries Research and Development Act 1989 (PIRD Act), it is subject to accountability and reporting obligations set out in the Public Governance, Performance and Accountability Act 2013 (PGPA Act). The GRDC's portfolio department is the Australian Government Department of Agriculture.

The functions of the GRDC under the Act include coordinating or funding R&D activities; monitoring, evaluating and reporting on the impact of R&D activities on the grains industry and the wider community; and facilitating the dissemination, adoption and commercialisation of the results of R&D.

GOLD SPONSOR



As a leading Agribusiness and an iconic brand in rural and regional Australia, our key focus is to help you succeed whatever your goals. To enjoy a successful outcome today's farmers need to be experts in every aspect of their farming business, which is where we can help.

Our links to markets, production expertise, national network and access to leading farm supplies brands means you can be certain we have a solution whatever your needs.

Ruralweekly

The Rural Weekly is the largest circulating rural newspaper in the Northern Territory, Queensland and Northern New South Wales. The Rural Weekly is published daily online and every Friday in print.

With five localised editions, Rural Weekly is the only publication that directly targets niche audiences across Queensland, Northern New Sales Wales and the Northern Territory's major farming areas.

This special publication features comprehensive editorial tailored to the needs of agricultural workers across these markets, and is relied upon for information on rural products and services.

The print edition is inserted into 19 of APN Australian Regional Media's successful regional newspapers, distributed around key townships and mailed to rural subscribers.

Readers can keep up to date with rural issues and topics at www.ruralweekly.com.au, on Facebook by searching Rural Weekly and on twitter @ruralweekly.

SILVER SPONSORS



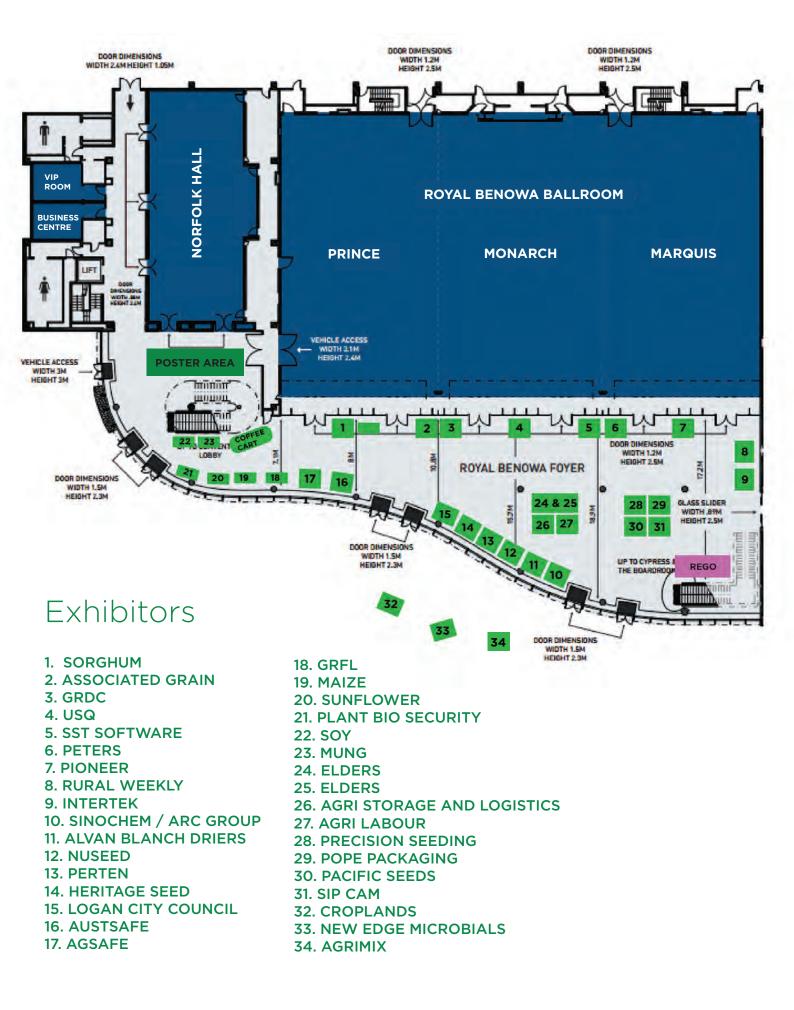
EXHIBITORS

Agri Labour Australia Agri Storage and Logistics Agrimix Agsafe Alvan Blanch Associated Grain Australian Mung Bean Association Australian Sunflower Association AustSafe Super Croplands GRFL Logan Office of Economic Development Maize Association New Edge Microbials Perten Instruments Australia Peters Commodities Plant BioSecurity Precision Seeding Solutions Sinochem Sorghum Association Soy Australia SST Software Australia

SUPPORTING SPONSORS

Agro Commodities (Lunch Sponsor) ARC Group Incitec (Lanyard Sponsor) PB Agri Foods Pepsico Right Mind Rural Bank Sinochem Societa Cofica (Lunch Sponsor) Tixana

Floorplan



Helpful Information

MONDAY 7TH MARCH:

11.30AM - 6.00PM - REGISTRATION 6.00PM - 8.00PM - WELCOME RECEPTION

TUESDAY 8TH MARCH:

7.30AM - 5.30PM - REGISTRATION 7.00PM - 9.00PM - ELDERS NEW TECHNOLOGY DINNER

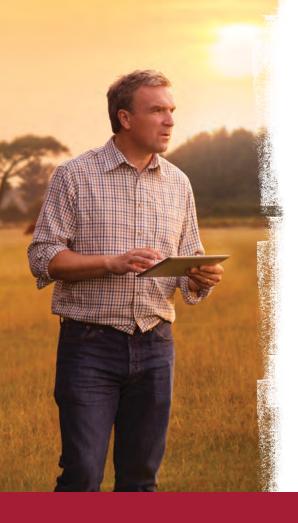
WEDNESDAY 9TH MARCH:

7.30AM - 5.30PM - REGISTRATION 7.00PM - 10.30PM - GRDC CONFERENCE DINNER



excellent yield results | superior lodging resistance | strong disease tolerance

The DuPont Oval Logo is a registered trademark of DuPont. , M SM Trademarks and service marks of DuPont, Pioneer or their respe





The landscape is changing. Are you ready?

We understand that farmers face a unique set of challenges, which often present opportunities. You need to adapt to rapidly changing weather conditions, crop and livestock development, emerging technologies, commodity price fluctuations and varying global economic conditions.

A Rural Bank Farm Finance Specialist recognises these challenges. They can back you to make the most of the opportunities this constantly evolving landscape presents.

To be ready for every opportunity, talk to your Rural Bank Farm Finance Specialist.

Bendigo and Adelaide Bank Limited, The Bendigo Centre, Bendigo, VIC 3550. ABN 11 068 049 178 AFSL 237879. Products issued by Rural Bank Limited, ABN 74 083 938 416 AFSL 238042 and distributed by Bendigo Bank. BEN50MP676 (S52792_A1)(08/15)

Available through

Mungbeans are HOT this summer...

Don't miss any of the latest information on marketing, agronomy, production and value adding from our industry experts in this, the International Year of Pulses.



Bendigo Bank





The Australian Mungbean Association is proud to sponsor the inaugural Zoe McInnes Memorial Agronomy and Study Tour Award. Congratulations to the finalists and 2016 winner!

CONERENCE APP

Login and use the Conference APP to take advantage of the following features:

- 'Favourite' sessions
- Read abstracts and speaker bios
- Make notes

Download a free QR Scanner from your phone's APP store. Scan the QR Code to access the web based APP or type the following into your browser:

http://asgc2016.m.yrd.currinda.com/



Australian Summer Grains Conference



Securing our future

Australian Summer Grains Conference Post Conference Tour

QUEENSLAND Norwin Hall

Bowenville Norwin Rd, Norwin 4pm, Monday 14th March BBQ dinner following sessions

Proceeds to Mt Tyson State School Please Register attendees at: asgc-norwin.eventbrite.com.au

NEW SOUTH WALES B&W Rural

407 Gosport St, Moree 4pm, Tuesday 15th March BBQ dinner following sessions

Please Register attendees at: asgc-moree.eventbrite.com.au

Notes:

Poster Presentations

Poster presentations will be delivered at Tuesday lunch between 12:30pm - 1:30pm

Poster Number	Crop Group	Title	Author
1	General	Nitrogen and phosphorus learnings from 14 summer crops in a sub-tropical continuous cropping system on a vertosol in Southern Queensland.	Bede O'Mara
2	General	Enhanced Efficiency Fertilisers: Understanding the Market Space	Jack C Ellice-Flint
3	General	How can summer crops improve farming systems in Queensland?	Jayne Gentry
4	Sorghum	Determining the number of sorghum heads using a state-of-the-art image recognition feature extraction approach	Andries Potgieter
5	Sorghum	How much zinc should I add with my deep P?	David Lester
6	Sorghum	Role of leaf conductance and photosynthesis in determination of genotypic differences in transpiration efficiency in sorghum	G. Geetika
7	Sorghum	Modelling sorghum phenology in Ethiopian germplasm	Alemu Woldetensaye
8	Sorghum	Increasing the genetic diversity of sorghum through analysis of mutants and native populations.	Cecilia Blomstedt
9	Sorghum	Cross-scale modelling linking leaf photosynthesis and crop growth to support photosynthesis manipulation	Alex Wu
10	Sorghum Maize	Yield responses to sulfur are ephemeral	David Lester
11	Soy	Preliminary investigations into soybean response to population and row spacing in the Coastal Burnett. 1) Variety by population by row spacing trial	Neil Halpin
12	Soy	Preliminary investigations into soybean response to population and row spacing in the Coastal Burnett. 2) Variety by configuration irrigation trial	Neil Halpin

Notes:



For more information, please contact:



Neil Weier Area Sales Manager QLD M 0429 622 056



Tim English Market Development Manager, Summer Crops M 0409 170 968



nuseed.com.au WuseedAustralia 🎔









Better Sunflowers Coordinator

The Better Sunflowers Coordinator is Alicia Dunbar. You can contact Alicia by phone 0419 649 988 or email coordinator@bettersunflowers.com.au

Be sure to subscribe to the Better Sunflowers eNewsletter. **Region search**

- Ocentral Queensland
- **ONorthern NSW**
- **OSouthern NSW**
- ○Southern Queensland
- Victoria
 - SEARCH

www.bettersunflowers.com.au

Notes:



Australia and is comprised of and represents all the many and varied sectors of the maize industry in Australia. The MAA aims to promote and develop the industry for the benefit of all these sectors." MAA Activities over the Past 12 Months have included obtaining 3 pesticide permits, conducting on-farm

"The Maize Association of Australia maize association is the peak association for the maize industry in

trials, organising Field days and Grower Meetings, assisting with the organisation of the ASGC, and compiling a number of Fact Sheets which are available on our website (http://www.maizeaustralia.com.au/qualityspecs.html).

The MAA is also responsible for compiling and publishing the COB. (Financial support is no longer available from the GRDC to produce this publication.)

Membership Application 2015/16 for membership based on the financial year ending June 30, 2016.

Please accept my/our application for membership of the Maize Association of Australia (tick relevant box)

Corporate members \$1,500.00 per year Merchant company members \$750 per ye Research corporation members \$220.00 Individual/producer members \$125.00 pe	per year	MAA	
Please make your cheque payable to Maize Australia Membership fees inclusive of GST Name Company/Organisation Address			
Town/City TelephoneEmail	State		

Please Email or Post your details to Liz Mann (lizmann.ag@gmail.com) or MAA, PO Box 2293, Shepparton, Vic 3632

Notes:



Proudly supporting the Sorghum Industry since inception

AUSTRALIAN SOYBEANS

Soy Australia proudly supports Australian soybean growers and the

2016 Australian Summer Grains Conference

Notes:

Code of Conduct

ACKNOWLEDGEMENT OF CODE OF CONDUCT FOR 2016 AUSTRALIAN SUMMER GRAINS CONFERENCE

By your attendance at the 2016 Australian Summer Grains Conference you agree to abide by the code of conduct in relation to the prescribed items below.

ALCOHOL AND ILLEGAL DRUGS POLICY

During Conference hours alcohol must not be consumed outside of the Conference social function venues and prescribed hours as per the Conference Program published in this document You must not be in the possession of or under the influence of illegal drugs while attending the Conference

DELEGATE AGREEMENT

In accepting entry to the Conference, you agree to conduct yourself in accordance with the expectations of the above. In circumstances where these expectations are not met the Conference Organising Executive management have the authority to refuse your entry to the Conference and request you to vacate the premises and all fees, monies payed will be forfeited to the Conference.





Applications now open for GRFL's 2016 #From1Grain Capacity Building Tour to the USA via our website

"The best capacity building program around and with its limited time commitment, it is achievable for any farmer to be involved." (2015 tour participant)



The Grains Research Foundation Ltd is dedicated to Queensland grain farmers & the future of the Queensland grains industry, through capacity building, workshops and identification and publication of grower research priorities.

UAV Workshops with Chad Colby!

Friday 11th & Saturday 12th March 2016 at Bongeen, Qld. For more information or to make a booking visit **bit.ly/GRF-UAV**

We live your business like it's our own.

At Elders, we've been adding value to Australian agribusiness for 175 years. Value built on innovation, specialist knowledge, tailored advice and strong relationships. Value that only comes from breathing agriculture like you do, and living your business like it's our very own.

