

# WBA Brisbane 2013 - Program

## Day 1 - Tuesday - July 16th 2013

Session	Time	
Preconference Tour	8:45-18:00	Half Day and Full Day Options Available
Registration	17:00-21:00	Registration desk open
Poster Set-up	17:00	Poster set-up from 5pm - Posters to be hung in allocated space
Welcome Reception	18:30-20:30	18:30-20:30 Welcome Reception

## Day 2 - Wednesday - July 17th 2013

Session	Time	
Registration	8:00	Registration Desk Opens
1	09:00-10:40	<p><u>Opening Session - Future Challenges for Wheat Breeding in Australia</u> Chair: Lynne McIntyre</p>
Morning Break	10:40-11:10	Morning Tea
2	11:10-12:50	<p><u>Adaptation to the Australian Environment</u> Session Chair: Lynne McIntyre Invited speaker: Graeme Hammer Victor Sadras:- <i>Breeding for yield improved WUE, RUE and N uptake but not NUE</i> Karine Chenu:- <i>Wheat response to drought and heat – Using crop modelling to prepare for the future</i> Sabnine Tausz-Posch:- <i>Performance of traits in a high CO<sub>2</sub> world</i> Glenn Fitzgerald:- <i>Role of elevated CO<sub>2</sub> as an environment for trait selection</i></p>
Lunch Break	12:50-14:00	Lunch
3	14:00-15:40	<p><u>Adaptation to the Australian Environment</u> Session Chair: Dan Mullan Bob French:- <i>Improving wheat adaptation to early season drought</i> Allan Peake:- <i>Cultivar response to alternative agronomic practices in irrigated wheat</i> Jack Christopher:- <i>Stay-green traits in wheat are linked to yield in well-watered environments</i> Banyou Zheng:- <i>Predicting heading time of Australian wheat using effects of VRN1 and Ppd-D1</i> Fernanda Dreccer:- <i>Role of genotypic variation in response to increasing temperatures in wheat</i></p>
Afternoon Break	15:40-16:10	Afternoon Tea

		<u>Adaptation to the Australian Environment</u> Session Chair: Dan Mullan Troy Frederiks:- <i>Focusing reproductive cold stress research on the main target</i> Anthony Van Herwaarden:- <i>Environmental determinants of yield in wheat</i> Nick Collins:- <i>Field evaluation of tolerance to the yield and quality effects of heat stress in common and durum wheat</i> Saba Mahjouri Majd:- <i>An evaluation of the response of Australian wheat genotypes to variable nitrogen application</i> Hamid Shirdel Moghanloo:- <i>Utility of automated plant imaging and SPAD measurements for heat tolerance screening in wheat: Correlations between the effects of heat on growth rate, chlorophyll loss and single grain weight</i>
4	16:10-17:50	
	18:00-19:30	Poster session - and refreshments
<b>Day 3 - Thursday - July 18th 2013</b>		
<b>Session</b>	<b>Time</b>	
Registration	8:30	Registration Desk Opens
		<u>Biotic Challenges to Wheat Production</u> Session Chair: Michael Quinn Invited speaker: Sukumar Chakroborty Harbans Bariana:- <i>New sources of resistance to rust diseases in wheat</i> Banchgize Getie Temesgen:- <i>Sources of resistance to stem rust in Spark/Rialto DH wheat population</i> Manisha Shankar:- <i>New quantitative trait loci and germplasm development for yellow spot resistance in wheat</i> Mehmet Cakir:- <i>Gene discovery and pre-emptive breeding of Australian wheat for broad resistance against insects</i>
5	09:00-10:40	
Morning Break	10:40-11:10	Morning Tea
		<u>Biotic Challenges to Wheat Production</u> Session Chair: Michael Quinn Invited speaker: Donald Gardiner Francis Ogonnaya: <i>Update on GRDC Crown Rot Initiative Projects (CRIPs) - Tentative Title</i> Mandy Christopher:- <i>Exotic pest and pathogen incursions: case studies of economic impact and changes in management practices</i>  Anthony Condon:- <i>Triticale: A surprising model for boosting the genetic yield potential of wheat</i> Jian Juan Zhang:- <i>Stem water soluble carbohydrate remobilization in wheat under water limited conditions</i>
6	11:10-12:50	
Lunch Break	12:50-14:00	Lunch

7	14:00-15:40	<u>Innovations in Plant Breeding Technologies</u> Session Chair: Maqbool Ahmad Invited speaker: Toni Reverter Saberi Hossein:- <i>To Breed or not to breed for combined Al, Mn and Fe Tolerance?</i> Phil Davies:- <i>Wheat doubled haploids: current technology and future prospects</i> Lee Hickey:- <i>Integrated approach to pre-breeding in winter cereals</i> Ian DeLacy:- <i>Enhancement of the backcross strategy in plant breeding</i>
Afternoon Break	15:40-16:10	Afternoon Tea
8	16:10-17:50	<u>Innovations in Plant Breeding Technologies</u> Session Chair: Maqbool Ahmad Scott Boden:- <i>Flowering genes and yield potential in wheat</i> Kelvin Khoo:- <i>Common QTL and multi-purpose markers for the resistance of five synthetic hexaploids against two species of root lesion nematode</i> Jose Barrero: <i>Mapping of dormancy QTLs in a multi-parental population and gene candidate analysis using heterogeneous inbred families</i> Chunji Lui:- <i>Update on the identification of 'Perfect Markers' and candidate gene(s) for a 3BL locus conferring Fusarium crown rot resistance in wheat</i>
	19:00-23:00	Conference Dinner - Kookaburra Queen - Brisbane River Cruise: 7 pm - boarding; 7.30 pm - departure
<b>Day 4 - Friday - July 19th 2013</b>		
<b>Session</b>	<b>Time</b>	
Registration	8:30	Registration Desk Opens
9	09:00-10:40	<u>Innovations in Plant Breeding Technologies</u> Session Chair: Jason Reinheimer Invited speaker: David Edwards Timothy Fitzgerald:- <i>Functional genomics for novel fungal pathogen resistance in wheat</i> Andrzej Kilian:- <i>DArT and DArTseq genome profiling of wheat with IT support for breeding and pre-breeding applications</i> Mui-Keng Tan:- <i>Novel genetic variants of GA-insensitive Rht-1 genes in hexaploid wheat and their potential agronomic value</i> Rudi Appels:- <i>Sequencing chromosome 7A and the Australia-China Centre for Wheat Improvement</i>
Morning Break	10:40-11:10	Morning Tea

10	11:10-12:50	<u>Innovations in Plant Breeding Technologies</u> Session Chair: Jason Reinheimer Vivi Arief:- <i>Evaluation of two-times testing for the CIMMYT's international wheat nurseries</i> Hailemichael Desmae:- <i>Three interpretations of line-mean heritability calculated from plant breeding field trials</i> David Butler:- <i>An optimal design approach to allocating entries in partially replicated experiments</i> Beverley Gogel:- <i>Partial compositing for the design and analysis of cereal tolerance trials in Australia</i> Julian Taylor:- <i>A new look at the analysis of efficiency trials</i>
Lunch Break	12:50-14:00	Lunch
11	14:00-15:40	<u>Targeting End-Product Quality</u> Session Chair: Susan Kleven or Allan Rattey (to be confirmed) Invited speaker: Mellissa Fitzgerald Alexander Johnson:- <i>Novel strategies to produce micronutrient-enriched wheat</i> Diane Mather:- <i>Nematode resistance and yellow flour: can Rlnn1 be separated from Psy-a1?</i> Daryl Mares:- <i>Late maturity <math>\alpha</math>-amylase (LMA): Progress towards better diagnostics and an understanding of the mechanisms involved</i>