

Program as at 23 May 2018 (draft only - subject to change)

Field Tour: Tuesday, 4th September 2018

Departs 7.30am	Participants meet at Rendezvous from 7.15am for Field Tour
7.00 - 8.30pm	Welcome reception (reception and light canapes) at Rendezvous Hotel Scarborough

Day 1: Wednesday 5th September 2018

8.00 - 8.45 am	Registration and coffee
8.45 - 9.10am	Welcome and housekeeping Wallace Cowling, Chairman, AusCanola 2018 Steering Committee Opening Nick Goddard, CEO, Australian Oilseeds Federation
9.10 - 9.30am	Where is canola genomics heading in the future? Jacqui Batley, University of Western Australia and Chairman, AusCanola2018 Program Committee
Session 1: New Germplasm Chairman: Martin Barbetti	
9.30 - 10.00am	Mobilising alternative sources of genetic diversity for germplasm enhancement in Brassica oilseeds Surinder Banga - Punjab Agricultural University
10.00 - 10.15am	Review of the benefits of the India-China Exchange Project Sheng Chen, University of Western Australia
10.15 - 10.30am	Review of the benefits of the India-China Exchange Project with particular reference to the identification of genomic regions and candidate genes for resistance to pod shatter in Brassica Harsh Raman, NSW Department of Primary Industries
10.30 - 10.45am	<i>Brassica carinata</i>: Coming to a farm near you Anthony van Herqaarden, University of Queensland
10.45 - 10.50am Poster 3 min	New traits for Australian canola via TILLING and gene editing Chris Helliwell, CSIRO
10.50 - 10.55am Poster 3 min	Estimation of linkage disequilibrium and population structure among <i>Brassica Napus</i> genotypes for association mapping Huma Qamar, Ayub Agriculture Research Institute, Faisalabad
11.00 - 11.30am	Morning Tea

Session 2: Impact of Climate Change

Chairman: Trent Potter

11.30 - 12.00pm	Crop modelling: Physiological context for improved canola agronomy Julianne Lilley, CSIRO
12.00 - 12.15pm	A model for pre-breeding canola for heat and drought tolerance during global climate change Wallace Cowling, University of Western Australia
12.15 - 12.30pm	Limitations to plant growth in canola (<i>Brassica napus</i>): a result of nitrogen and water availability Liyong Hu, Huazhong Agricultural University
12.30 - 12.45pm	Effect of water stress on transpiration efficiency in canola Rajneet Uppal, NSW Department of Primary Industries
12.45 - 1.00 pm	Predicting canola phenology in warm environments Jeremy Wish, CSIRO
1.00 - 1.05pm Poster 3 min	Phi thickenings in Brassica roots - an adaptation to water stress? David Collings, University of Newcastle
1.00 - 2.00pm	Lunch

Session 3: Pests and Diseases

Chairman: Lars Kamphuis

2.00 - 2.30pm	Sclerotinia Stem Rot in canola: tales from the executioner's handbook Dwayne Hegedus, Agriculture and Agri-Food Canada
2.30 - 2.40pm	Effective management of Sclerotinia stem rot (<i>Sclerotinia sclerotiorum</i>) in canola (<i>Brassica napus</i>) through exploring host resistance Muhammad Azam, University of Western Australia
2.40 - 2.50pm	New avenues for breeding resistance to Sclerotinia stem rot into Australian canola Mark Derbyshire, Centre for Crop and Disease Management, Curtin University
2.50 - 3.00pm	Reassessing aphid thresholds in canola Svetlana Micic, WA Department of Primary Industries and Regional Development
3.00 - 3.05pm Poster 3 mins	Decision Apps for managing Blackleg and Sclerotinia in canola Art Diggle, WA Department of Primary Industries and Regional Development
3.05 - 3.10pm Poster 3 mins	Survey of Sclerotinia stem rot sclerotia post harvest Andrea Hills, WA Department of Primary Industries and Regional Development
3.10 - 3.15pm Poster 3 mins	Environmental drivers of white leaf spot disease (<i>Pseudocercospora capsellae</i>) on canola Tamsal Murtza, University of Western Australia
3.15 - 3.20pm Poster 3 mins	Alternaria spp. Leaf Spot Incidence associated with canola in Australia Hebba Al-Lami, University of Western Australia

3.20 - 3.25pm Poster 3 mins	Pathotypes of <i>Hyaloperonospora brassicae</i> on canola and other <i>Brassicaceae</i> Akeel Mohammed, University of Western Australia
3.30 - 4.00pm	Afternoon Tea
Session 4: Breeding Chairman: Wallace Cowling	
4.00 - 4.15pm	GRDC investment in pre-breeding and the future for gene editing and GM varieties Speaker to be confirmed, Grains Research and Development Corporation
4.15 - 4.30pm	National Variety Trials PV-Plus App Daniel Tolhurst, University of Wollongong
4.30 - 4.45pm	Overview, the risk analysis framework used and public attitudes to GMO's Alison Wardrop, Office of Gene Technology Regulator
4.45 - 5.00pm	Hybrid vs. OP canola: which one wins where? Heping Zhang, CSIRO
5.00 - 5.15pm	Towards functional characterization of Pod Shatter Resistant Genes in <i>Brassica napus</i> Qiong Hu, Chinese Academy of Agricultural Sciences
5.15 - 5.30pm	Establishing a diverse multi-year genomic selection reference population for key traits to underpin canola pre-breeding Hans Daetwyler, Victorian Department of Economic Development, Jobs, Transport and Resources
6.30 - 9.00pm	Conference Dinner

Day 2: Thursday 6th September 2018

8.00 - 8.30am	Registration and coffee
Session 5: Growing canola in low rainfall environments (the WA experience) Chairman: Mike Lamond	
8.30- 9.30am	Canola growing in WA Mike Lamond to provide an overview then a panel of 3 growers will talk about their experiences growing canola in WA, where it fits in the rotation and issues they have growing canola
9.30 - 9.40am	Retaining canola Seed Mark Seymour, WA Department of Primary Industries and Regional Development
9.40 - 9.55am	Plant geometry and density for management of canola crops in low rainfall environments Martin Harries, WA Department of Primary Industries and Regional Development
9.55am - 10.05am	Canola sowing time to maximise yield in Western Australia Imma Farre, WA Department of Primary Industries and Regional Development

10.05 - 10.15am	Canola: Pathways to profitability Elizabeth Meier, CSIRO
10.15 - 10.30am	Over twenty years of commercial canola crops show the place of canola in the southern Mallee of South Australia Trent Potter, Yeruga Research Station
10.30 - 11.00am	Morning Tea
Session 6: Agronomy Chairman: Peter Bostock	
11.00 - 11.30pm	Canola's rise to #1 on the Canadian Prairies – Innovation and “Out-o-vation” Murray Hartman, Alberta Agriculture and Forestry
11.30 - 11.45pm	Determining the critical period for yield and quality in canola John Kirkegaard, CSIRO
11.45 - 12.00pm	Match varietal phenology with sowing date to drive canola productivity Rohan Brill, NSW Department of Primary Industries
12.00 - 12.10pm	How does the partitioning of yield, seed colour change and other determinants of windrow timing, influence seed yield and quality parameters in canola Rick Graham, NSW Department of Primary Industries
12.10 - 12.20pm	PodGuard™ trait reduces pre-harvest losses in canola but yield of all canola varieties declines with delayed harvest Leigh Jenkins, NSW Department of Primary Industries
12.20 - 12.30pm	Canola establishment across central NSW -how to get it up Colin McMaster, NSW Department of Primary Industries
12.30 - 1.30pm	Lunch
Session 7: Pests and diseases Chairman: Jacqui Batley	
1.30 - 1.50 pm	Dual herbicide tolerant canola for better weed management Christopher Preston, University of Adelaide
1.50 - 2.10pm	Creation of a hypervirulent isolate of the blackleg pathogen using CRISPR/Cas9 and Identification of <i>Brassica napus</i> - <i>Leptosphaeria maculans</i> interactions through dual RNAseq Dilantha Fernando, University of Manitoba
2.10 - 2.20pm	Infection of <i>Brassica napus</i> after stem elongation by <i>Leptosphaeria maculans</i> (Blackleg): disease development and yield loss Susan Sprague, CSIRO
2.20 - 2.30pm	Fungicide resistance in Australian <i>Leptosphaeria maculans</i> populations Angela Van de Wouw, University of Melbourne

2.30 - 2.35pm Poster 3 min	Examining variety by environment (VxE) interaction in canola Blackleg Expression Experiments Lauren Borg, University of Wollongong
2.35 - 2.40pm Poster 3 min	Inert materials are critical long-term carriers and disseminators of viable blackleg ascospores Papori Barua, University of Western Australia
2.40 - 2.45pm Poster 3 min	Imputation to whole-genome sequence increases the power of genome wide association studies for Blackleg Resistance in canola Denise Barbulescu, Victorian Department of Economic Development, Jobs, Transport and Resources
2.45 - 2.50pm Poster 3 min	Natural variation for interference traits against annual ryegrass in canola Nawar Shamaya, NSW Department of Primary Industries
3.00 - 3.30pm	Afternoon Tea
Session 8: Product Quality, Marketing and Processing Chairman: Nick Goddard	
3.30 - 3.50pm	GHG values for canola Sandra Eady
3.50 - 4.10pm	Development of an omega-3 long-chain fatty acid oil crop: Innovation in canola Surinder Singh, CSIRO
4.10 - 4.25pm	Key canola quality attributes in the new millennium – what are the trends over the past 18 years? Donna Seberry, NSW Department of Primary Industries
4.25 - 4.30pm Poster 3 min	Computational and biological characterization of 2S albumin proteins from Brassica rapa Mahmudur Rahman, Southern Cross University
4.30 - 4.45pm	The use of canola oil for deep frying in the food industry Speaker to be confirmed
4.45 - 5.00pm	Closing Remarks Wallace Cowling, Chairman Steering Committee
5.00pm	Conference concludes