

SESSION

TOPIC

SPEAKER

9:30 - 11:30

Challenges and Opportunities for Canola

The Innovation Challenge and the Opportunity for Canada..... Dr. Steven Webb, *Global Institute for Food Security*

Canadian and International Industry Overview and Updates

Canadian Canola Industry Update Jim Everson, *Canola Council of Canada*
 Canola Processing Expansion in Canada: Investment, Drivers and Opportunities Chris Vervaet, *Canadian Oilseed Processors Association*
 Growing Stronger: Reducing Emissions from Nitrogen Fertilizer Application Cassandra Cotton, *Fertilizer Canada*
 Health Canada's Update on New Novel Foods Guidance Dr. Neil Strand, *Health Canada*
 AAFC Canola Week 2021 Marco Valicenti, *Agriculture and Agri-Food Canada*
 Seed Regulatory Modernization Wendy Jahn, *Canadian Food Inspection Agency*
 International Rapeseed Congress in Sydney in September 2023 Robert Wilson, *GCIRC (Global Council for Innovation in Rapeseed & Canola)*
 Question & Answer Panel

11:30 -13:30

Break - Networking Lounge Open

13:30 -15:30

2021 Crop Updates and Reports

The 2021 Canadian Prairies Growing Season Conditions: A Review Aston Chipanshi, *Agriculture and Agri-Food Canada*
 Quality of the Western Canadian Canola Harvest 2021 Dr. Véronique Barthet, *Canadian Grain Commission*
 Prairie Canola Crop Report Dane Froese, *Manitoba Agriculture and Resource Development*
 Prairie Canola Disease Report David Kaminski, *Manitoba Agriculture and Resource Development*
 Concept to Canola Raymond Gadoua, *Canola Council of Canada*
 Insect Pest Update: Canola Insects Dr. Meghan Vankosky, *Agriculture and Agri-Food Canada*

Heat and Drought Tolerance: Where are we at and how far have we come the past 3-4 decades?

Heat and Moisture Stress Dr. Malcolm Morrison, *Agriculture and Agri-Food Canada*
 Question & Answer Co authored by Nathaniel Ort, *Canola Council of Canada*

Research Updates

MCGA 2021 Research Update Amy Mangin, *Manitoba Canola Growers*
 Alberta Canola 2021 Research Update Brittany Hennig, *Alberta Canola Producers Commission*
 SaskCanola 2021 Research Update Doug Heath, *SaskCanola*
 Gene Editing of Starch Metabolism in Canola Enhances Yield and Improves Drought Tolerance Dr. Michael J. Emes, *University of Guelph*
 Nutrigenetics, Canola Oil, and Blood Glucose Levels: Does SC1 Genotype Modulate a Person's Response to Canola Oil? Dr. David M. Mutch, *University of Guelph*

15:30 - 16:30

Networking Lounge Open

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9:30 - 10:00

CCC Innovation Strategy

Innovation Strategy: Canola Value Chain

Dr. Curtis Rempel, *Canola Council of Canada*
Jay Whetter, *Canola Council of Canada*

10:00 - 11:00

Canola Harvest Management Panel

Introductions
Reglone Ion: Optimizing Canola Harvest
Heat LQ Harvest Aid - Canola

Jay Whetter (host), *Canola Council of Canada*
Chadrick Carley (panelist), *Syngenta*
Bruce Mackinnon (panelist), *BASF*
Lorne Grieger (panelist), *PAMI*
Shawn Senko (panelist), *Canola Council of Canada*

11:00 - 11:30

CCC Agronomic Priorities

CCC Agronomic Priorities

Jay Whetter, *Canola Council of Canada*
Clint Jurke, *Canola Council of Canada*

11:30 - 13:00

Break - Networking Lounge Open

13:00 - 13:45

Research Summaries from the Canola Agronomic Research Program and the Canadian Agricultural Partnership

Introductions
Improving Nitrogen Use Efficiency and Soil Sustainability in Canola Production Across Canada
Canola Frequency Effects on Nutrient Turnover and Root-Microbe Interactions
Manipulating Agronomic Factors in Canola - Hybrid, Sowing Density, and Harvest Management
Question & Answer panel

Taryn Dickson (host), *Canola Council of Canada*
Dr. Bao-luo Ma, *Agriculture and Agri-Food Canada*
Dr. Tim Dumonceaux, *Agriculture and Agri-Food Canada*
Dr. Brian Beres, *Agriculture and Agri-Food Canada*

13:45 - 14:45

Canola Grain Storage Panel

Introductions
Automated In-Bin Aeration of Canola
Canola Storage: Research and Recommendations
Storage Talk

Jay Whetter (host), *Canola Council of Canada*
Chandra Singh (panelist), *Lethbridge College*
Charley Sprenger (panelist), *PAMI*
Clayton Harder (panelist), *Manitoba Canola Growers farmer director*

14:45 - 15:30

Shattering in Canola

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Environmental Effects on Pod Shatter in Oilseed Rape/Canola and its Genetic Basis
Question & Answer Panel

Nicolea Dow, *Manitoba Canola Growers farmer director*
Taryn Dickson, *Canola Council of Canada*
Dr. Lars Ostergaard, *John Innes Centre*

15:30 - 16:30

Networking Lounge Open

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9:30 - 11:30
(concurrent)

Curtis' Corner: Healthy Planet, Healthy You

Introductions
 Plant Protein for Biopolymers
 Plant Starches and Proteins for Bioplastics
 Canola, a Major Source of Omega-3 Fatty Acids in the Canadian Diet and Brain
 If Omega-3 Fatty Acids are Healthy, Where is the Evidence?
 Question & Answer Panel

Dr. Curtis Rempel, *Canola Council of Canada*
 Dr. Nandika Bandara, *University of Manitoba*
 Dr. Qiang Liu, *Agriculture and Agri-Food Canada*
 Dr. Richard Bazinet, *University of Toronto*
 Dr. Scott Harding, *Kings College London and Memorial University*
 Dr. Curtis Rempel, *Canola Council of Canada*

9:30 - 10:30
(concurrent)

Digital Phenotyping

Maize Phenotyping
 Modelling Canola for Image-Based Phenomics
 UAV-Based Hyperspectral Imaging in Canola Crop Phenotyping
 Question & Answer Panel

Dr. Seth Murray, *Texas A&M University*
 Dr. Mik Cieslak, *University of Calgary*
 Dr. Keshav Singh, *Agriculture and Agri-Food Canada*

10:30 - 11:30
(concurrent)

Cutting Edge Molecular Technologies

Developing Pennycress into an Oilseed Cash Cover Crop Named Covercress Genome Editing to Increase Seed Oil in Camelina
 Quantitative Proteomics: Offering New Opportunities in Canola
 Question & Answer Panel

Dr. John C. Sedbrook, *Illinois State University*
 Dr. Kristi Snell, *Yield10 Bioscience*
 Dr. R. Glen Uhrig, *University of Alberta*

11:30 - 13:30

Break - Networking Lounge Open

13:30 - 14:30

Protein, Processing and Seed Innovations

Introduction to Merit Functional Foods
 Canola Protein Extraction
 Genetic Manipulation of ABI3 Confers Frost-Tolerant Seed Degreening in Canola
 Question & Answer Panel

Dan Kraft, *Merit Foods*
 Asiyah Suchak, *University of Saskatchewan*
 Dr. Marcus Samuel, *University of Calgary*

14:30 - 15:30

New Breeding Strategies and Methods

Brassica napus Pan-Genome: Uncovering the Diversity
 Interactive Visualizations for High-Throughput Phenotyping and Genotyping
 Speed Breeding: A Powerful Tool to Accelerate Crop Research and Breeding
 Question & Answer Panel

Dr. Isobel Parkin, *Agriculture and Agri-Food Canada*
 Venkat Bandi, *University of Saskatchewan*
 Dr. Lee Hickey, *University of Queensland*

15:30 - 16:30

Networking Lounge Open