



2016 Canola Discovery Forum

October 25 – 27, 2016

The Fairmont Winnipeg



OBJECTIVE

This three-day forum is intended to align innovative strategies and move the Canadian canola industry towards its goal of 26 million tonnes of sales and production and average yields of 52 bushels per acre by 2025. Key addresses will explore opportunities in canola production and through partnerships with growers, researchers and industry, identify research priorities that will provide a scientific basis for best management practices. It is this science driven foundation that will build a profitable and sustainable canola industry.

“The scientific man does not aim at an immediate result. He does not expect that his advanced ideas will be readily taken up. His work is like that of the planter – for the future. His duty is to lay the foundation for those who are to come, and point the way.” – Nikola Tesla

AGENDA

Tuesday, October 25

7:30 – 8:30 am Registration and Breakfast

8:30 – 8:45 am

WELCOME REMARKS

Meeting Chair: Brian Chorney, Chair, Crop Production and Innovation Committee, Canola Council of Canada

8:45 am -12:00 pm

8:45 – 9:45 am

DISEASE WORKSHOP - IS THERE A DOCTOR IN THE HOUSE?

Sclerotinia

A discussion on traits and genetics, sensors and a modelling group update from work done in GF2. There are efficacious fungicides: why is sclerotinia still the number one canola yield robber? Plans for GF3.

Lead: Keith Gabert, Agronomy Specialist, Central Alberta South, CCC

Speakers:

Dr. Luis del Rio Mendoza, Associate Professor, Plant Pathology, North Dakota State University (*Epidemiology of sclerotinia – the road to a warning system*)

Dr. Lone Buchwaldt, Research Scientist, Plant Pathology, Agriculture and Agri-Food Canada, Saskatoon (*Sclerotinia resistant canola; Sclerotinia risk assessment for economical use of fungicides*)

Q & A

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| 9:45 – 9:55 am | Morning Health Break |
| 9:55 – 11: 45 am | <p>Blackleg Growers are seeing more blackleg than they should be when using R rated varieties. Resistant gene identification and models will be discussed.</p> <p>Leads: Justine Cornelsen, Agronomy Specialist, Western Manitoba, CCC Clinton Jurke, Agronomy Director, CCC Dr. Curtis Rempel, Vice President, Crop Production and Innovation, CCC</p> <p>Speakers: Lucette Badiou, Student, Grower, University of Manitoba and Paul Saelhof, Grower, Paulisa Saelhof Farms Ltd. (<i>Why am I seeing more blackleg in my R rated variety?</i>) Dr. Dilantha Fernando, Department of Plant Science, University of Manitoba (<i>Introducing resistance identification in canola in Canada: making durable canola production possible</i>) Ralph Lange, Team Lead, Crop Pathology and Molecular Biology, Alberta Innovates – Technology Futures (<i>Canola resistance groups – do they exist and how useful can they be?</i>) Sakaria Liban, Research Associate, DL Seeds (<i>Blackleg of canola, challenges and opportunities from crop and cultivar rotation to resistance stacking and identification</i>)</p> <p>Q & A</p> |
| 11:45 am – 12:00 pm | <p>Clubroot Clubroot Steering Committee Update Lead: Dan Orchard, Agronomy Specialist, Central Alberta North, CCC</p> |
| 12:00 – 1:00 pm | Lunch |
| 1:00 – 1:15 pm | <p>Introduction to the RESEARCH PRIORITIES LEADERBOARD Lead: Jay Whetter, Communications Manager, Canola Watch and Canola Digest Editor, CCC</p> |
| 1:15 - 4:00 pm | <p>CANOLA PERFORMANCE TRIALS (CPT) WORKSHOP – OLYMPIC GOLD The future of variety evaluation. Leads: Dr. Curtis Rempel, Vice President, Crop Production and Innovation, CCC Taryn Dickson, Resource Manager, Crop Production and Innovation, CCC Nicole Philp, Agronomy Specialist, Southwest Saskatchewan, CCC</p> |
| 2:30 – 2:45 pm | Afternoon Health Break |
| 2:45 – 4:00 pm | CPT Workshop continues |
| 4:00 – 4:30 pm | <p>CPT Governance Committee (By Invitation Only) Essex and Canterbury Rooms</p> |
| 4:00 – 4:30 pm | <p>RESEARCH PRIORITIES LEADERBOARD Lead: Jay Whetter, Communications Manager, Canola Watch and Canola Digest Editor, CCC</p> |

4:30 – 6:30 pm **WELCOME RECEPTION**
RESEARCH PRIORITY LEADERBOARD DISCUSSION

AGENDA

Wednesday, October 26

7:30 – 8:30 am Registration and Breakfast

8:30 – 8:45 am **Day 1 RECAP**
Curtis Rempel, Vice President, Crop Production and Innovation, CCC

8:45 – 9:15 am **GROWER DIRECTED RESEARCH SESSION – PAY IT FORWARD**
Updates and research priorities from Alberta Canola Producers Commission (ACPC), Manitoba Canola Growers Association (MCGA) and SaskCanola.

Speakers:

Daryl Tuck, Region 4 Director, Vegreville, AB, ACPC

Charles Fossay, President, MCGA

Wayne Truman, Director, SaskCanola

9:15 – 10:15 am **CANADA'S CANOLA MARKETS – GROW UP AND GO**
You play a key role in helping canola and the industry grow and making Canada the leading country for canola production, but where does it go?

Speakers:

Bruce Jowett, Vice President, Market Development, CCC

Lisa Campbell, Oil Nutrition Research Manager, CCC

Brittany Dyck, Canola Meal Manager, CCC

10:15 – 10:30 am Morning Health Break

10:30 – 11:30 am **FERTILITY PILLAR PANEL - THE NITROGEN ARSENAL**

PART 1: Economics and N rates: the N response curves for current canola hybrids. Should more N be used and should it be applied more efficiently? Corn model: How did N keep pace with yield potential of hybrids?

Lead: Angela Brackenreed, Agronomy Specialist, Eastern Manitoba, CCC

Speakers:

Dr. Brian Arnall, Associate Professor Nutrients for Life Foundation

Professorship of Soil & Food Crop Nutrition, Precision Nutrient Management, Department of Plant and Soil Sciences, Oklahoma State University *(New and old technologies for nitrogen decisions)*

Jamie Denbow, Global Product Manager, Farmers Edge *(How to apply nitrogen for efficiency and productivity gains.)*

Q&A

11:30 am – 12:00 pm **RESEARCH PRIORITIES LEADERBOARD**
Lead: Jay Whetter, Communications Manager, Canola Watch and Canola Digest Editor, CCC

12:00 – 1:00 pm Lunch

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| 1:00 – 1:50 am | <p>PART 2: A discussion of the organisms in the root microbiome of canola that increase the uptake and efficient use of free-living N and looking into the future of alternative nutrient management.</p> <p>Lead: Warren Ward, Agronomy Specialist, Southeast Saskatchewan, CCC</p> <p>Speakers: Dr. Bobbi Helgason, Research Scientist, Soil Molecular Microbiologist, Agriculture and Agri-Food Canada, Saskatoon Research and Development Centre (<i>Opportunities for manipulating the canola microbiome to increase nitrogen acquisition and improve crop performance</i>) Dr. Mario Tenuta, Soil Science and Soil Ecology, University of Manitoba (<i>The future of nitrogen fertilizers</i>)</p> <p>Q&A</p> |
| 1:50 – 2:50 pm | <p>PLANT ESTABLISHMENT PILLAR – STAND AND DELIVER</p> <p>Plant density: how many seeds should growers put in the ground and why? A look at evolving recommendations.</p> <p>Lead: Autumn Barnes, Agronomy Specialist, Alberta South, CCC</p> <p>Speakers: Murray Hartman, Oilseed Specialist, Alberta Agriculture and Forestry (<i>Canola seeding rate and plant population recommendations in western Canada</i>) Andre Lacoursiere, Owner, 2nd Opinion Consulting (<i>Canola plant counts: looking at the why</i>)</p> <p>Q & A</p> |
| 2:50 – 3:00 pm | Afternoon Health Break |
| 3:00 – 4:00 pm | <p>INTEGRATED PEST MANAGEMENT PILLAR – LESS IS MORE</p> <p>Grow more and manage pests! The economic benefits of biodiversity include lower pest control costs; better sustainability metrics and improved market access. What can growers do to encourage biodiversity?</p> <p>Lead: Gregory Sekulic, Agronomy Specialist, Peace, CCC</p> <p>Speakers: Dr. Lora Morandin, Owner, Morandin Ecological Consulting (<i>Enhancing beneficial insects: the latest research and the path forward</i>) Dr. John Gavloski, Entomologist, Manitoba Agriculture, Farm Production Extension (<i>Ten insects canola growers should want in their fields</i>) Terry Young, Region 7 Director, Lacombe, AB, ACPC - <i>unable to attend</i></p> <p>Q & A</p> |
| 4:00 – 4:30 pm | <p>HARVEST MANAGEMENT PILLAR – THE REAPER</p> <p>Lead: Shawn Senko, Agronomy Specialist, Northeast Saskatchewan, CCC</p> <p>Speakers: Brandon Olstad, Platform Manager – Efficient Agriculture Systems (EASY), CLAAS of America and Blake McOllough, Product Specialist, CLAAS of America (<i>Harvest technology</i>)</p> <p>Q & A</p> |

4:00 – 5:30 pm **GROWER GROUP MEETING (By Invitation Only)**
Essex and Canterbury Rooms

5:00 pm **LOAD BUSES TO KELBURN FARM: BBQ Dinner**
 Meet in hotel lobby
RESEARCH PRIORITY LEADERBOARD DISCUSSION

AGENDA

Thursday, October 27

7:30 – 8:30 am Registration and Breakfast

8:30 – 8:45 am **DAY 2 RECAP**
Dr. Curtis Rempel, Vice President, Crop Production and Innovation, CCC

8:45 – 9:45 am **GENETIC TECHNOLOGY – THE ODYSSEY**
 A discussion on the advanced breeding and potential genetic solutions to agronomy issues. How are regulators viewing gene editing?
Lead: Clinton Jurke, Agronomy Director, CCC
Speakers:
 Dr. Isobel Parkin, Research Scientist, Agriculture and Agri-Food Canada, Saskatoon Research and Development Centre (***Application of genomics technologies to canola crop improvement***)
 Dr. Sally Vail, Research Scientist, Oilseed Breeding, Agriculture and Agri-Food Canada (***The NAM project***)
 Dr. Michael J. Emes, Professor, Molecular and Cellular Biology, College of Biological Science, University of Guelph (***Manipulation of starch metabolism in transgenic Arabidopsis thaliana increases biomass and oilseed production 3-4 fold***)
 Co-authors: Liu, F., Zhao, Q., Mano, N., Ahmed, Z., Nitschke, F., Cai, Y., Chapman, K.D., Steup, M., Tetlow, I.J., and Emes, M.J.
Q & A

9:45 – 10:15 am **ULTIMATE CANOLA CHALLENGE (UCC) AND ON-FARM RESEARCH - THE POWER PLANT**
Lead: Nicole Philp, Agronomy Specialist, Southwest Saskatchewan, CCC
Speaker:
 Kristen Phillips, Grower, W.P. Acres Ltd.
Q & A

10:15 – 10:30 am Morning Health Break

10:30 – 11:30 am **WEEDS, HERBICIDE RESISTANCE AND STEWARDSHIP – THE WILD BUNCH**
 Herbicide resistant strategies.
Lead: Ian Epp, Agronomy Specialist, Northwest Saskatchewan, CCC
Speakers:
 Dr. Jeanette Gaultier, Weed Specialist, Manitoba Agriculture, Agri-Industry Development and Advancement Division, Crop Industry Branch, Farm Production Extension (***Herbicide resistance in Manitoba***)
 Brian Hildebrand, Grower, Brian G. Hildebrand Farms Ltd. (***A grower perspective on weed management***)
Q & A

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| 11:30 am – 12:00 pm | <p>A discussion on 15-year funding for key projects. What should those key projects be? How much money would it take to do a good job?</p> <p>Lead: Dan Orchard, Agronomy Specialist, Central Alberta North, CCC</p> <p>Speakers: Dr. Wilf Keller, President and CEO, Ag-West Bio Inc. <i>(Taking Canadian canola to the next level: 2025 and beyond (2050))</i> Ward Toma, General Manager, Alberta Canola Producers Commission <i>(Alberta Canola Producers Commission research involvement – an eye on the future)</i></p> <p>Q & A</p> |
| 12:00 – 12:15 pm | <p>RESEARCH PRIORITIES LEADERBOARD</p> <p>Discussion</p> <p>Lead: Jay Whetter, Communications Manager, Canola Watch and Canola Digest Editor, CCC</p> |
| 12:15 – 1:00 pm | Lunch |
| 1:00 – 2:00 pm | <p>CANOVISION – ANALYTICAL THOUGHT</p> <p>Discovery Task Force Panelists</p> <p>Moderator: Jay Whetter, Communications Manager, Canola Watch and Canola Digest Editor, CCC</p> <p>Panelists: Dr. Roger Suss, MD, Assistant Professor, Department of Family Medicine, University of Manitoba <i>(The tools to balance latest evidence with previously accepted standards)</i> Todd Eyrick, North American Information Technology Lead, Monsanto Company <i>(Unlocking the power of digital agriculture)</i> Ron Krahn, Director, Manitoba Canola Growers Association <i>(Back to the future: tech on our farm)</i></p> |
| 2:00 – 2:30 pm | <p>CANOVISION PANEL Q&A</p> <p>Moderator: Jay Whetter, Communications Manager, Canola Watch and Canola Digest Editor, CCC</p> |
| 2:30 – 2:50 pm | <p>FINAL RESEARCH PRIORITIES LEADERBOARD OVERVIEW AND SURVEY</p> <p>Lead: Jay Whetter, Communications Manager, Canola Watch and Canola Digest Editor, CCC</p> |
| 2:50 – 3:00 pm | <p>CLOSING REMARKS</p> <p>Dr. Curtis Rempel, Vice President, Crop Production and Innovation, CCC</p> |
| 3:00 pm | Adjourn |