

# THE 5TH ATLANTIC AGRONOMY WORKSHOP

Rodd Charlottetown Hotel, Charlottetown,  
Prince Edward Island  
January 19-20, 2010

## Tuesday, January 19

8:30 - 9:45 **Registration and Poster Setup / Viewing.**

9:00 - 9:45 Nutrition Break - beverages, muffins and Danishes

9:50 -10:00 **Welcome:** Dr. Yousef Papadopoulos, Past President of Canadian Society of Agronomy, Research Scientist, Forage Breeding and Agronomy, AAFC, Nova Scotia Agricultural College, Truro, NS

**Session 1 - Climate change & crop health** - Chairperson: Dr. Richard Donald, Vice President Research, Extension & Outreach, Nova Scotia Agricultural College, Truro, NS

10:00 - 10:45 **Climate change – What to expect** – *Réal Daigle, Meteorologist, R.J. Daigle Enviro, Moncton, NB.*

10:45 - 11:05 **The impacts of global warming and extreme weather on field crop insect pests in Atlantic Canada:** *Dr. Chris Cutler, Department of Environmental Sciences, Nova Scotia Agricultural College, Truro, NS*

11:05 - 11:25 **Climate change and plant disease:** *Dr. Greg J. Boland, Professor, School of Environmental Sciences, University of Guelph, Guelph, ON*

11:25 - 11:45 **The impacts of global warming and extreme weather on the persistence of perennial field crops in Atlantic Canada:** *Dr. Gilles Belanger, Research Scientist, Forage Agronomy, AAFC, Ste-Foy, Québec*

**Poster Session: 11:45 – 12:30** - senior author to be present at poster (Judging of graduate student posters)

**Lunch** 12:30 - 1:30 – sponsored by PEI Department of Agriculture

**Session 2 - Crop Management:** Chairperson: Dr. Claude Caldwell, Crop Physiologist, Department of Plant and Animal Science, NSAC.

1:30 – 1:45 **Alternate forages for dairy cows** - *Dr. Tarlok Singh Sahota, Director of Research and Business, Thunder Bay Agricultural Research Station (TBARS)*

1:45 – 2:00 **Winter wheat management tips** - *Jack VanRoestel, Field Crop Specialist, AgraPoint, Kentville, NS*

2:00 – 2:15 **\*\* Seeding rate and nitrogen management effects on *Camelina sativa* (L.) Crantz seed yield and seed quality** - *Xue Pan, MSc candidate, NSAC*

- 2:15 – 2:30 **Influence of herbicide residues, organic matter & subsoil fertility on vegetable yields** - *Dr. Viliam Zvalo, Vegetable Specialist, AgraPoint, Kentville, NS*
- 2:30 – 2:45 **\*\* Extent of nitrogen transfer from two diverse red clover cultivars to companion bluegrass under field conditions** - *Melinda Thilakarathna, MSc candidate, NSAC*
- 2:45 – 3:00 **How NSAC can work more closely with Maritime farmers** - *Dr. Richard Donald, Vice President, NSAC*
- 3:00 – 3:15 **Crop update New Brunswick**, *Peter Scott, Mike Price & Walter Brown, NBDAA*
- 3:15 – 3:30 **Nutrition Break** – beverages, cookies and squares

**Session 3 - Soil & Water Management:** Chairperson: Dr. Les Halliday, Beef Development Office, PEIDA.

- 3:30 – 3:45 **Performance of edamame on harvested peat lands** – *Lakshman Ranasinghe, Agronomist (R&D), Theriault & Hachey Peat Moss Ltd., Baie Sainte-Anne, NB*
- 3:45 – 4:00 **Seasonal and rotational effects of manured crop rotations on nitrate-nitrogen loading of tile drainage waters** – *Keith D. Fuller, Kentville Agricultural Research Centre, AAFC*
- 4:00 – 4:15 **\*\* Soil carbon additions estimated by repeat-pulse labeling field pea (*Pisum sativum*) and canola (*Brassica napus*) with  $^{13}\text{CO}_2$**  - *Amy Sangster, AgraPoint, Truro, MSc candidate, University of Saskatchewan, Saskatoon, SK*
- 4:15 – 4:30 **Thomas Brook watershed; evaluation of BMPs in the Annapolis Valley, Nova Scotia** – *Dale Hebb, Environmental Research Biologist, AAFC, Kentville, NS*
- 4:30 – 5:00 **\*\* Nutrient flows on Maritime dairy farms** – *Jeffrey Nimmo, MSc candidate, NSAC*
- 5:00 – 5:15 **Nitrous oxide emissions from forage legumes and grass** – *Dr. Mehdi Sharifi, Department of Environmental Sciences, NSAC*
- 5:15 – 5:30 **\*\* Impact of two red clover cultivars on nitrate leaching in bluegrass and red clover stands under field conditions** - *Terri MacPherson, MSc candidate, NSAC*
- 5:30 – 5:45 **Crop update PEI**, *Dr. Les Halliday, Beef Development Office, PEIDA*
- 5:45 – 6:15 Questions and discussions on today's papers and posters.
- 6:15 – 7:30 **Reception and Posters** - hors d'oeuvres, vegetables and cheese trays, cash bar. (Judging of graduate student posters.)

## Wednesday January 20

8:00 - 8:30 **Nutrition Break** - beverages, breakfast breads

**Session 4 - Nutrient Management:** Chairperson: Jack VanRoestel, Field Crop Specialist, AgraPoint, Kentville, NS

8:30 - 8:45 **PSNT test and corn production** - *Walter Brown, Crop Specialist, NBDAA*

8:45 - 9:00 **\*\* Phosphorous regulation of alfalfa and soybean nitrogen fixation in Eastern Canada** - *Amanda Ward, MSc candidate, NSAC*

9:00 - 9:15 **Measurement of nitrate leaching from barley, clover, potato rotation using capillary wick samplers** - *Mark Grimmett, AAFC Crop and Livestock Research Centre, Charlottetown, PEI*

9:15 - 9:30 **Fertility management for organic cereal production** - *Dr. Andy Hammermeister, Organic Agricultural Centre of Canada, NSAC, Truro*

9:30 - 9:45 **\*\* Utilization of food and yard waste compost as a phosphorous source for corn production** - *Angela Garnett, MSc. candidate, NSAC*

9:45 - 10:15 **Soil CCME standards and loading rates considerations for alternative soil amendments** – *Dr. Richard Donald, Vice President, NSAC*

10:15 – 10:30 **Nutrition Break** – beverages, muffins and Danishes

10:30 -10:45 **Residual effect of nitrogen, sulphur and boron on yield and feed quality of alfalfa in acidic soils of Thunder Bay** - *Dr. Tarlok Singh Sahota, Director of Research and Business, Thunder Bay Agricultural Research Station (TBARS)*

10:45-11:00 **Sustainable organic potato production using green manure and off-farm organic amendments** – *Dr. Derek Lynch, Organic Agricultural Centre of Canada, NSAC, Truro*

11:00 -11:15 **Fertility and weed management for establishing black current stands** – *Dr. Andy Hammermeister, Organic Agricultural Centre of Canada, NSAC, Truro*

11:15 -11:30 **\*\* Long-term manure application impacts on forage yield, nutrient utilization and soil nutrient status** – *Jason Wells, MSc. candidate, NSAC*

**Session 5 - Integrated Pest Management – Diseases, Insects and Weeds:** Chairperson: Gavin Graham, Integrated Pest Management Specialist/Weed Specialist, NBDAA, Fredericton, New Brunswick.

11:15 - 11:30 **Evaluation of Bayer Crop Science Inc. fungicides for control of leaf and head diseases on winter wheat, spring barley and spring wheat** - *Doug MacDonald/Dr.C.D.Caldwell, Nova Scotia Crop Development Institute, NSAC*

- 11:30 - 11:45 **\*\* Evaluation of downy mildew resistance of 11 camelina genotypes and scanning electron microscopy (SEM) observations of downy mildew infection**  
- *Jili Li, MSc candidate, NSAC*
- 11:45 - 12:00 **Nova Scotia crop update** – *Bill Thomas, Crop Specialist, AgraPoint, Truro, NS*
- 12:00 - 12:15 **Evaluation of herbicide options for problematic weed issues in New Brunswick barley production** – *Gavin Graham, IPM Weed Management Officer, NBDAA, Fredericton, NB*
- 12:15 - 12:30 **Using trichogramma brassicae to reduce damage caused by the european corn borer in potatoes** – *Dr. Christine Noronha, AAFC Crops and Livestock Centre, Charlottetown, PEI*
- 12:30 - 12:45 **Impact of canopy trimming and cultivar choice on sclerotinia rot of carrots in field and in storage** - *Dr. Rick Peters, AAFC, Crops and Livestock Centre, Charlottetown, PEI*
- 12:45 - 1:00 **Graduate student competition award presentation and workshop wrap up.**  
(Graduate student competition sponsored by PEI Cattle Producers)

\*\* Graduate student presentations - competing in best paper competition.

**NOTE:** CCAs – there are CEUs available from this Workshop – please sign in and out.

