

## Oral Presentations

### Concurrent sessions

**Presenting authors are underlined.** Abstracts (page 22) are sorted by the last name of the first author, not the presenting author)

Date	Time	Bioproducts & Sustainability	Pest Management	Horticulture
		Trottier 1100	Trottier 1090	Trottier 1080
		Chair: Don Smith	Chair: David Wees	Chair: Mark Lefsrud
Monday 14 July	2:50 pm	<b>Evaluation of Perennial Warm Season Grasses for use as Bioenergy Feedstock.</b> <u>Julie Hansen</u> , <u>Hilary Mayton</u> , Paul Salon, Jamie Crawford, Chris Watkins, and Donald Viands	<b>On-Farm Soybean IPM Education Programs.</b> <u>Brian Aldrich</u> , Julianne Dennis, Michael Dennis, Nancy Glazier, Jeffrey Miller, Michael Stanyard, J. Keith Waldron and Ken Wise	<b>Absorption Of Sodium Chloride By The Halophyte <i>Portulaca oleracea</i> L.</b> <u>Moshe Halpern</u> , Joann K. Whalen and Donald L. Smith
	3:10	<b>Biomass Yield and Sugar Concentration of Sweet Pearl Millet as Influenced by Fertilization and Harvest Date.</b> <u>Vincent Leblanc</u> , Gilles Bélanger, Philippe Seguin, and Anne Vanasse	<b>Manipulating Canola Canopy Through Plant Density, Seeding Date, and Fertility Regime for Improved Management of the Cabbage Seedpod Weevil, <i>Ceutorhynchus obstrictus</i> (Marsham).</b> <u>Lloyd Dossdall</u> , Doug Moisey, and Ross McKenzie	<b>Defining Irrigation Set Points For Organically-Grown Greenhouse Tomato Crops Using Growth And Physiological Responses To Soil Matric Potential.</b> <u>Steeve Pepin</u> , Martine Dorais, Nicolas Gruyer, and Claudine Ménard
	3:25	<b>CRP, CREP or Biofuel Production – Which is the most Profitable?</b> <u>Carrie Spehar</u> , Patrick Drohan, and Douglas Miller	<b>Susceptibility of Dandelion Biotypes and Broadleaf Turfgrass Weeds to <i>Sclerotinia minor</i>.</b> <u>Mohammed H. Abu-Dieyeh</u> and Alan K. Watson	<b>SNP Diversity in Cultivated Tomato (<i>Solanum lycopersicum</i>).</b> <u>Joanne A. Labate</u> , Angela M. Baldo, Susan M. Sheffer, and Larry D. Robertson
	3:40	<b>Corn Grain Yields and Yield Stability in Four Long-term Cropping Systems.</b> <u>Kulbhushan K. Grover</u> , Heather D. Karsten, and Greg W. Roth	<b>Choice of Species and Errors in Identification in Student Weed Collections.</b> David Wees, S. Lussier, T. Eades, M. Abu-Dieyeh, and E. Sivesind	<b>Effect of Wavelength on Carotenoid Accumulation in Kale.</b> <u>Mark Lefsrud</u> , Dean Kopsell, and Carl Sams
	3:55	<b>Establishing Priorities For Organic Research In Canada.</b> <u>A.M. Hammermeister</u> , R. Pidskalny, R.L. Beavers, and B. Frick	<b>Forage Radish Winter Cover Crops to Control Weeds in the Mid-Atlantic Region.</b> <u>Yvonne Lawley</u> , Ray Weil, and John Teasdale	<b>Growth Parameters And Gas Exchange Characteristics of Avocado Rootstock Seedlings as Affected by Different Container Sizes And Levels Of Irrigation Frequency.</b> <u>George Ouma</u>
	4:10	<b>Nitrate Removal through Microbial Denitrification in Riparian Areas Associated with Intensive Agriculture.</b> <u>Cassie Leclair</u> , David Burton, Glenn Stratton, and Gordon Brewster	<b>Crop Height and Density Influence Flowering Synchrony and Intraspecific Gene Flow Between Cropped and Volunteer Wheat (<i>Triticum aestivum</i> L.).</b> <u>Willenborg, C.J.</u> , Luschei, E.C., and Van Acker, R.C.	<b>Nitrogen And Phosphorus Application To Processing Tomatoes Grown Under Drip Fertigation.</b> <u>T.Q. Zhang</u> , C.S. Tan, K. Liu, and J. Warner
	4:30-6:30	Poster Session and Exhibition Showcase and Reception (all presenters present)		

## Oral Presentations

Date	Time	Forages	Soil Fertility & Plant Nutrition	Horticulture
		Trottier 1100	Trottier 1090	Trottier 1080
		Chair: Sid Bosworth	Chair: Joann Whalen	Chair: Shahrokh Khanizadeh
<b>Tuesday 15 July</b>	8:00	<b>Response of Rainfed Alfalfa to N, K, S and B at Thunder Bay.</b> <u>T. S. Sahota</u>		<b>The Effect of Three Foliar Diseases of the Wild Blueberry on Leaf Photochemistry, Leaf Drop, and Floral Bud Number.</b> James Dawson, Dave Percival, Bruce Gray, Nancy Pitts, and Paul Hildebrand
	8:15	<b>Neutral Detergent Soluble Carbohydrates in Alfalfa and Timothy Predicted by Near Infrared Reflectance Spectroscopy.</b> <u>Zhidong Nie</u> , Gaëtan Tremblay, Gilles Bélanger, Robert Berthiaume, Yves Castonguay, Annick Bertrand, Réal Michaud, and Guy Allard	<b>Field and Laboratory Measurements of Nitrogen Sequestration in Mine Spoils Amended with Poultry Manure and Paper Mill Sludge.</b> <u>Ashlee Dere</u> , Richard Stehouwer, Kirsten McDonald, and Emad Aboukila	<b>Analysis of Genetic Diversity within a Collection of Wild Lowbush Blueberry (<i>Vaccinium angustifolium</i> Ait.) clones Using ISSR Markers.</b> <u>Samir C. Debnath</u>
	8:30	<b>Cutting Time and Wilting Affect Non Structural Carbohydrates in Alfalfa.</b> <u>Chantale Morin</u> , Gaëtan Tremblay, Gilles Bélanger, Annick Bertrand, Yves Castonguay, Réal Michaud, Robert Berthiaume et Guy Allard	<b>Corn Biomass Estimation from Hyperspectral Measurements: Can Help Nitrogen Nutrition Index Determination.</b> <u>Pengfei Chen</u> , Driss Haboudane, Nicolas Tremblay, Jihua Wang, and Philippe Vigneault	<b>Ripening Patterns at the Field Level in Lowbush Blueberry.</b> <u>Lara Gibson</u> , Leonard Eaton, and H.P. Vasantha Rupasinghe
	8:45	<b>Effect of Ammonium Nitrate, Urea, and Agrotain on Silage Corn Yield and Feed Quality at Thunder Bay.</b> <u>T. S. Sahota</u>	<b>Cadmium Accumulation in Soils and Potato Tubers in Relation to Soil Phosphorus.</b> <u>Jianling Fan</u> , Noura Ziadi, Gilles Bélanger, Léon Etienne Parent, Athyna N. Cambouris, and Zhengyi Hu	<b>Morphology and Antioxidant Activity of Strawberry as Affected by <i>In Vitro</i> and <i>Ex Vitro</i> Culture Methods.</b> <u>Samir C. Debnath</u>
	9:00	<b>Using Remote Sensing and Modeling to Estimate Gross Primary Productivity in Humid-Temperate Pastures.</b> <u>Howard Skinner</u> , Tagir Gilmanov, and Bruce Wylie	<b>Evaluation of Seasonal Crop Water Production Functions for Indian Mustard (<i>Brassica juncea</i>).</b> <u>Vijay Kumar Bhosekar</u> and V. Praveen Rao	<b>Scion and Rootstock Effects on ABA-mediated Plant Growth Regulation and Salt Tolerance of Acclimated and Un-acclimated Potato Genotypes.</b> <u>M. Etehadnia</u> , D.R. Waterer, K.K. Tanino
	9:15	<b>Effect of Plant Species Diversity and Composition on Soil Organism Functional Diversity in an Establishing Pasture.</b> Michel McElroy, <u>Yousef A. Papadopoulos</u> , and Sina Adl	<b>Whole Farm Illinois Soil Nitrogen Test (ISNT) Assessment in New York.</b> <u>Anne Place</u> , Quirine M. Ketterings, Dale Dewing, and Joe Lawrence	<b>Varietal Differences in Potato Antioxidant Content: Does It Affect Consumer Choice?</b> <u>John M. Jemison, Jr.</u> and Mary Ellen Camire
	9:30-9:45	Coffee Break		

## Oral Presentations

Date	Time	Forages	Soil Fertility & Plant Nutrition	Horticulture
<b>Tuesday 15 July</b>		Trottier 1100	Trottier 1090	Trottier 1080
		Chair: Sid Bosworth	Chair: Joann Whalen	Chair: Shahrokh Khanizadeh
	9:45	<b>Phosphorus and Nitrogen Relationships during Spring Growth of an Aging Timothy Sward.</b> <u>Gilles Bélanger</u> and Noura Ziadi	<b>Effects of Dairy Manure with High Concentrations of Copper on the Growth and Yield of Corn.</b> <u>Sally A. Flis</u> , Catherine S. Ballard, Everett D. Thomas, Sidney C. Bosworth, and Jeffrey W. Darrah	<b>Studies on Genetic Variability and Heritability for Yield and Quality Traits in potato (<i>Solanum tuberosum</i> L.).</b> <u>Naveed Murtaza</u>
	10:00	<b>Double Cropping Effects On Forage Yields and the Water Balance in Southeastern Pennsylvania.</b> Ymene Fouli, Daniel Fritton, Sjoerd Duiker, Marvin Hall, and Jack Watson	<b>Starter and Season-Long P Effects of Dairy Manure Sludge Injected near Corn (<i>Zea Mays</i> L.) Rows.</b> Aiguo Liu, <u>Shabtai Bittman</u> , Tom A. Forge, C. Grant Kowalenko, Derek E. Hunt, Frédéric Bounaix, Anthony Friesen, Katherine Buckley, and Martin Chantigny	<b>Diversely Coloured Sweet Potatoes (<i>Ipomoea batatas</i>) grown under Maritime Conditions.</b> <u>J. Owen</u> , W. Kalt, J. Shi, S.A.E. Fillmore, and V. Zvalo
	10:15	<b>Corn Silage Production in New York.</b> <u>W.J. Cox</u> , J.H. Cherney, and D. Cherney	<b>Effect of Liquid Dairy Manure and NPK on Cereals Grain, Straw and Biomass Yield and Grain Protein Content at Thunder Bay.</b> <u>T. S. Sahota</u>	<b>Pulvinus Activity, Leaf Movement and Leaf Water Use Efficiency of Bush Bean (<i>Phaseolus vulgaris</i> L.) under a Hot Environment.</b> <u>Mahmoud Raieini-Sarjaz</u> and Vida Chalavi
	10:30		<b>Nitrogen Utilization of Swine Manure Compost in Production of Processing Sweet Corn.</b> <u>Q. Wang</u> and T.Q. Zhang	
	10:45-noon	Poster viewing (all presenters present)		

<b>Tuesday 15 July</b>	12:00	<p><b>Field Tour 1</b></p> <p><b>Agriculture and Agri-Food Canada (AAFC) - Horticulture Research and Development Centre</b></p> <p>The tour buses leave at 12:45 after participants have eaten lunch at the Trottier building.</p>	<p><b>Field Tour 2</b></p> <p><b>McGill University-MacDonald Campus</b></p> <p>The tour bus for McGill-Macdonald campus leaves at 12:00. Lunch will be served at the Macdonald campus.</p>	<p><b>Field Tour 3</b></p> <p><b>Montreal Botanical Garden &amp; Behind the Scenes of the Montreal Botanical Garden</b></p> <p>The tour buses leave at 12:45 after participants have eaten lunch at the Trottier building.</p>
	<b>6:00-9:00 pm</b>	<p><b>Reception &amp; Banquet</b></p> <p>Introductions: Yousef Papadopoulos Awards Presentations: Tom Bruulsema</p> <p><b>Guest Speaker: <u>Myles Frosst</u>, CEO, Agricultural Institute of Canada</b> <b>Building Bridges In Contemporary Agriculture.</b></p>		

## Oral Presentations

Date	Time	Soil Fertility & Plant Nutrition	Cash Crops & Cropping Systems
		Trottier 1090	Trottier 1080
		Chair: Yousef Papadopoulos	Chair: Anne Vanasse
<b>Wednesday 16 July</b>	8:00	<b>Effect of Ammonium Nitrate, Urea, Agrotain and Elemental Sulphur on Canola Seed Yield and Seed Oil and Protein Content at Thunder Bay.</b> <u>T. S. Sahota</u>	
	8:15	<b>Impact of Long-Term Phosphorus Fertilization on Soil Phosphorus Status.</b> <u>Rigas Karamanos</u> , Dick Purveen, and Jim Robertson	<b>On-farm Assessment of Soil Quality in Integrated Potato-Dairy Systems.</b> <u>Ellen B. Mallory</u> and Timothy S. Griffin
	8:30	<b>Critical P Concentration in Grain Corn and Spring Wheat.</b> <u>Gilles Bélanger</u> , Noura Ziadi, Annie Claessens, Nicolas Tremblay, Athyna N. Cambouris, And Michel C. Nolin	<b>Studies of the Dynamics of Bacteria Populations in Agricultural Soils in Response to Tillage, Manure application and the Environment, using T-RFLP technique.</b> <u>F.O. Odeleye</u> , J.K. Vessey, and Z. Dong
	8:45	<b>Nitrogen and Phosphorus Application to Green Pepper Grown with Drip Fertigation.</b> <u>T.Q. Zhang</u> , C.S. Tan, J. Warner, and K. Liu	<b>Management Strategies and Practices for Preventing Nutrient Deficiencies in Organic Crop Production.</b> <u>S. S. Malhi</u> , S. A. Brandt, J. D. Knight, K. S. Gill, T. S. Sahota, and J. J. Schoenau
	9:00	<b>Variable or Uniform Rate of Nitrogen Application to Corn: A Case Study on an Ontario Farm Field.</b> <u>Bao-Luo Ma</u> and Tian-Yun Wu	<b>Using Whole Farm Mass Balances as a Management Tool on New York State Dairy Farms.</b> <u>Caroline Rasmussen</u> , Quirine M. Ketterings, Larry Chase, Karl Czymmek and Patty Ristow
	9:15	<b>Assessing Crop Response to Fertilizer N: the Delta Yield Concept.</b> <u>R. Gary Kachanoski</u>	<b>Integrated Use Of Cattle Manure And Nitrogen For Maize Fodder Production.</b> <u>Soothar Mohan</u>
	9:30	<b>Performance of Dualex in Summer Wheat (<i>Triticum aestivum</i> L.) for Nitrogen Status Assessment, Yield Prediction and Estimation of Soil Nitrate Content.</b> Nicolas Tremblay, <u>Zhijie Wang</u> , and Carl Bélec	<b>Effect of Assisted Soil Infiltration on Emissions of Ammonia and Nitrous Oxide from Applied Dairy Slurry.</b> Rita Bhandral, <u>Shabtai Bittman</u> , Tom A. Forge, C. Grant Kowalenko, Derek E. Hunt, Frédéric Bounaix, Anthony Friesen, Katherine Buckley, and Martin Chantigny
	9:45	Coffee Break	
		Chair: Marie Therese Charles	Chair: Malcolm J. Morrison
	10:15	<b>Soil Base Saturation: a History of Concepts and Present Day Problems.</b> <u>Donald S. Ross</u>	<b>Evaluation of Various Tillage Systems in Barley-Soybean-Barley Rotation.</b> <u>T. S. Sahota</u>
	10:30	<b>Evaluating Mehlich 3 Reproducibility among Multiple Elements Analyzed in ICP: A Collaborative Study.</b> <u>Solomon Kariuki</u> , Hailin Zhang, and Joshua McGrath	<b>Analysing Crop Growth Using Digital Imaging.</b> <u>Malcolm J. Morrison</u> , G.P. Lafond, and C. Holzapfel
	10:45	<b>Traditional Soil Tests for Zinc and Copper Compared to CaCl<sub>2</sub> Extraction.</b> Masha Pitiranggon and <u>Murray B. McBride</u>	<b>Optimum Seed Rate for Feed and Malting Spring Barley Varieties for Northwestern Ontario.</b> <u>T. S. Sahota</u>
	11:00	<b>Assessment of Zinc and Boron for the Growth, Yield and Nutrient Content of Wheat (<i>Triticum aestivum</i>)</b> <u>Gandahi, A.W.</u> , F.C. Oad, and M.R. Wagan	<b>Evaluation of NPK Requirements and N-placement Methods For Sunflower Production.</b> <u>Oad, F.C.</u> , M.H. Siddiqui, and A.W. Gandahi
	11:15	<b>A Global Framework for Ecologically Intensive Fertilizer Management.</b> <u>Tom Bruulsema</u>	
	11:30	CONFERENCE ADJOURNS	