

# Organic Agriculture Centre of Canada (OACC) 2006 Annual Report

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## Introduction

At the Organic Agriculture Centre of Canada (OACC) we celebrated our fifth birthday in 2006. Thank-you to all the partners who worked with us in our formative years. With your help it's been possible for us to conduct research and engage in education at the university level to support farmers, students and consumers with credible information about organic agriculture and food. It's been exciting to link research, education and most importantly, practice, in this growing agricultural sector.

Sponsors of OACC, featured on page 24, are crucial to our work and we very much appreciate their support.

OACC is guided by our vision, "to strengthen the science and practice of organic agriculture in Canada". Our motto of "linking organic knowledge" is also at the forefront of our efforts. We welcome your ideas about how we can meet our vision more effectively.

The OACC website, [www.oacc.info](http://www.oacc.info), continues to grow as the dynamic archive for information related to organic research and education in Canada and you are encouraged to explore it. Each month an e-zine is sent to Friends of OACC. It highlights the most recent up-dates on the OACC website. If you wish to subscribe regularly, please contact [oacc@nsac.ca](mailto:oacc@nsac.ca) and we will be pleased to add your name, or that of a friend or colleague, to our mailing list.

## Contact Information

### Head Office

Organic Agriculture Centre of Canada  
Nova Scotia Agricultural College  
P.O. Box 550  
Truro, NS B2N 5E3  
Tel: (902) 893-7256  
Fax: (902) 896-7095  
E-mail: [oacc@nsac.ca](mailto:oacc@nsac.ca)  
Website: [www.oacc.info](http://www.oacc.info)

## OACC Research Bulletins

The following bulletins summarize research results from OACC researchers and our collaborators. The titles below are hyperlinked to bulletins available from our website (under the Extension section) in .pdf form.

### Final Research Bulletins

[Flax as an Alternative Grain for Maritime Organic Growers](#)

[Fertility and Weed Management in Organic Highbush Blueberry Production](#)

[Assessing Colorado Potato Beetle Control Options and Nitrogen Fertility in Organic Potato Production](#)

[Nutrient Status in Relation to Management and Productivity on Organic Dairy Farms](#)

[Phosphate Rocks Influence Green Manure Growth and Soil Phosphorus Dynamics](#)

[Gastrointestinal Parasitism in Organic Beef Cattle in the Maritimes](#)

[The Competitive Ability of Spring Wheat in Organic Cropping Systems](#)

[Variety and Seeding Rate Effects on Competition in Organically Grown Spring Cereals](#)

[The Breadmaking Quality of Canada Western Spring Wheat in Organic Cropping Systems](#)

### Interim Research Bulletins

[Soil Health in Organic Potato Systems](#)

[Epidemiology of Gastrointestinal Nematodes on Organic Sheep Farms in Canada](#)

[Increasing Mycorrhizal Colonization with Inoculants](#)

[Organic Soybean Production in Atlantic Canada](#)

[Maritime Organic Seed Trials: Carrots](#)

[Maritime Organic Seed Trials: Broccoli](#)

### Introductory Research Bulletins

[Greenhouse Gas Emissions and Nutrient Dynamics in Legume and Potato Rotations](#)

[Organic Cropping and Grazing Systems Trials](#)

[Use of Forestry Residuals in High Value and Organic Horticultural Crop Production](#)

[Organic Seed Treatments to Improve Crop Establishment in Barley](#)

## Financial Statement

April 2005 - March 2006

### Expenses

Research Coordination	108,220
Research Costs and Analysis	158,281
Information Dissemination	119,078
Web Course Development	34,398
Translation	44,060
Travel	56,515
Financial Management	26,000

**Total Expenses** \$546,552

### Revenue

Alberta Dept. of Agriculture, Food and Rural Development	50,000
Advancing Canadian Agriculture and Agri-Food (ACAAF)	217,836
Canadian Wheat Board	10,000
EJLB Foundation	20,000
Field Gate Organics	1,000
Home Hardware	20,000
Homestead Organics	1,000
McLean Foundation	5,000
Nature's Path	2,500
NB Department of Agriculture, Fisheries and Aquaculture	50,000
NS Department of Agriculture	66,716
OntarBio	2,500
PEI Department of Agriculture, Fisheries and Aquaculture	50,000
Saskatchewan Agriculture and Food	50,000

**Total Revenue** \$546,552

### Notes

- i) Specific research contracts held in whole or in part by OACC staff, are not included in this statement. Other research costs are included in those contracts.
- ii) In-kind contributions (not shown here) are significant, especially those of the Nova Scotia Agricultural College.

## Farmer and Industry Collaborators

*OACC is fortunate to work with many dedicated organic farmers and researchers from all parts of Canada. Every effort has been made to acknowledge all of our collaborating partners in this report. If we have missed anyone in this listing, please accept our apologies and let us know so this may be corrected next year.*

Twenty-three organic farms in Ontario and nine organic farms in Québec who are anonymously participating in OACC parasite research studies

Andreas, Lawrence - ON  
Arsenault, Ray and Joey – PE  
Baillie, Jim – NS  
Bauml, Ray - SK  
Beaudion, Dale - SK  
Beech, Kevin – SK  
Bernard, Mark - PE  
Biemond, Peter - ON  
Brodnar, Denis - SK  
Bromm, Norman - SK  
Bruce, Danny – NS  
Buhr, Harvey - SK  
Bunnett, David and Murray - NB  
Buoyink, Theo - ON  
Caissie, Gerry - NB  
Casson, Marcus - NS  
Cheverie, Kelly – PE  
Collinge, Nelson - SK  
Cook, Dave - SK  
Cowan, Cal - SK  
Craig, Doug - AB  
Cushon, Ian - SK  
de Groot, Martin - ON  
Dixon, Tim – PE  
Dollar, Fred - PE  
Ecceles, Larry - ON  
English, Laura - NB  
Forbes, Gerald - SK  
Forsyth, Morely - SK  
Funk, Dayton - SK  
Galarneau, Rob - SK  
Gallant, Johnny – PE  
Gaucher, Paul - SK  
Gillis, Marilyn - SK  
Gladstone, Mike - ON  
Grimsrud, Pauline - SK  
Guilford, Robert - MB  
Hartman, Steve and Marg - ON

Hay, Donald – PE  
Herman, Lyle - SK  
Hnetka, Audrey and Perry - SK  
Hoffman, Larry - SK  
Hovdebo, Wayne and Chris - SK  
Hunter, Frazer - NS  
Jopp, Frank - NB  
Kadatz, Bernice - AB  
Kernohan, Andrew - NS  
Kerr, Bob - ON  
Kessler, Gene - SK  
Klassen, Jack - SK  
Krol, Michael and Heidi - ON  
Kummer, Pirmin – NB  
Kungl, Norbert - NS  
Leniczek, Marion - SK  
Linkletter, Susan – NB  
Liska, Tim - SK  
Litwin, Bill - ON  
Loiselle, Marc - SK  
Loo, Raymond - PE  
Lowe, Reg - SK  
MacInnins, Phillip - PE  
MacLauchlan, John and Shauna - PE  
Martin, Luke - ON  
Martin, Matthew - ON  
McCuaig, Brenda and Kirby - SK  
Meinert, Martin - SK  
Mentink, Herman - NS  
Millar, Ian - SK  
Miller, Debbie - SK  
Montgomery, Dave - SK  
Nernburg, Alex and Elinor - ON  
Osthaus, Odillia - ON  
Perrault, Clem - SK  
Pfenning, Wolfgang - ON  
Phelan, Reg – PE  
Pronk, Martin and Corrie - ON  
Pulsifer, Orville - NS  
Reichheld, Gerald and Linda - PE  
Rempel, Danny - SK  
Richards, Larry – ON  
Robbins, Jim - SK

Roberts, Nancy and David – NS  
Robinson, Robert and Laura - PE  
Schmidt, Angie and Winton – SK  
Scott, Alex - MB  
Slater, Stewart - ON  
Snider, Steve - AB  
Spencer, Robert - SK  
Stafford, Rob - SK  
Stringer, Henri - SK

*Agricultural Mineral Prospectors, ON*  
*Alberta Organic Producers Association*  
Casky, Trent - *Proven Seed, MB*  
*Ecological Farmers of Ontario*  
*Envirem Technologies Inc., NB*  
Frick, Arlan - *Saskatchewan Crop*  
*Insurance Corporation, SK*  
*Going Organic Network, AB*  
Grant, Todd - *Speerville Flour Mill, NB*  
*Western Ag Innovations, SK*  
Hardy, Matt and John – *SoyHardy Organic*  
*Products, PE*  
*Harmony Organic Dairy Products, ON*  
Livingstone, Tim - *Jolly Farmer, NB*  
Laird, Elmer - *Back to the Farm Research*  
*Foundation, SK*  
Morrison, George, UK  
Nordal, Greg - *Seed grower, MB*

Tomlin, Kim - SK  
Turner, Brian – PE  
Van Nieuwenhuyzen, Rit - PE  
Wilhelm, Ross and Anne - ON  
Willner, Wayne - SK  
Woolhouse, Dwayne - SK  
Zettel, Ted and Christine - ON

*Nova-Agri Associates, NS*  
Ogle, Gary – *Veseys Seeds, PE*  
*OntarBio Organic Farmers Co-operative Inc., ON*  
*Organic Connections Inc., SK*  
*Organic Crop Improvement Association (OCIA)*  
*OCIA Research and Education*  
*Organic Learning Centre, SK*  
*Organic Prairie Research Coalition*  
*Organic Producers Association of Manitoba*  
*Potash Corporation*  
*ProCert Organics*  
Rivest, Roger – *Great Lakes Organic, ON*  
*Saskatchewan Organic Directorate*  
*Saskatchewan Organic Livestock*  
*Saskatchewan Organic Producers Association*  
Selig, Howard - *Valley Flax Flour Ltd., NS*  
Willmott, Edward - *Premium Crops Ltd., UK*  
Youngdahl, Donna - *Canadian Wheat Board, MB*

## Research and Extension Collaborators

Adl, Sina - *Dalhousie University*  
Ahlstrom, Monica – *Independent facilitator*  
Astatkie, Tess - *Nova Scotia Agricultural College*  
Bader, Leroy - *Saskatchewan Agriculture and Food*  
Benoit, Diane Lyse - *Agriculture and Agri-Food Canada*  
Berry, Andrea – *Falls Brook Centre, NB*  
Berthélemé, Claude - *NB Department of Agriculture, Fisheries and Aquaculture*  
Blackshaw, Robert - *Agriculture and Agri-Food Canada*  
Boecker, Andreas - *University of Guelph*  
Boiteau, Gilles- *Agriculture and Agri-Food Canada*  
Boswall, Peter – *PEI Department of Agriculture, Fisheries and Aquaculture*  
Brault, Danielle - *Ministère de l'agriculture, des pêcheries et de l'alimentation du Québec*  
Burgess, Peter – *Agrapoint NS*  
Burton, David - *Nova Scotia Agricultural College*  
Caldwell, Claude - *Nova Scotia Agricultural College*  
Chant, Shannon – *Saskatchewan Agriculture and Food*  
Clark, Ann - *University of Guelph*  
Cober, Elroy – *Agriculture and Agri-Food Canada*  
Coughlin, Jamey – *Nova Scotia Department of Agriculture*  
Cunningham, Rosalie - *Alberta Agriculture, Food and Rural Development*  
de Passillé, Anne Marie - *University of British Columbia*  
Denning, Bert - *Alberta Agriculture, Food and Rural Development*  
Duguid, Scott - *Agriculture and Agri-Food Canada*  
Embree, Charlie - *Agriculture and Agri-Food Canada*  
Entz, Martin - *University of Manitoba*  
Evans, Tracy – *Saskatchewan Agriculture and Food*  
Farkas, Gary - *University of Saskatchewan*  
Fredeen, Alan - *Nova Scotia Agricultural College*  
Froese, Jane - *University of Manitoba*  
Georgallas, Alex - *Nova Scotia Agricultural College*  
Giacomazzi, Terri - *British Columbia Ministry of Agriculture, Food and Fisheries*  
Goodyear, Norman – *Nova Scotia Agricultural College*  
Grant, Cynthia - *Agriculture and Agri-Food Canada*  
Haliday, Les – *PEI Department of Agriculture, Fisheries and Aquaculture*  
Hanlon-Smith, Claire - *Nova Scotia Department of Agriculture*  
Hardy, Paul - *Department of Agriculture, Australia*  
Henning, John - *McGill University*  
Henry, Roger – *Agriculture and Agri-Food Canada*  
Hollinger, John - *Manitoba Agriculture, Food and Rural Initiatives*  
Hoyle, Jeff - *Nova Scotia Agricultural College*  
Innes, Tracey - *Agriculture and Agri-Food Canada*  
Irvine, Byron - *Agriculture and Agri-Food Canada*  
Irving, Pamela - *Alberta Agriculture, Food and Rural Development*  
Johnson, Dan - *University of Lethbridge*  
Johnson, Eric - *Agriculture and Agri-Food Canada*  
Johnson, Paul – *Saskatchewan Agriculture and Food*  
Kelton, Dave - *University of Guelph*  
Knight, Diane - *University of Saskatchewan*  
Langer, Julia – *World Wildlife Fund*  
Lean, Garry - *Organic Inspector*  
Leboeuf, Anne - *Centre d'expertise en production ovine du Québec*  
Lowndes, Sandy - *Saskatchewan Agriculture and Food*  
Macey, Anne – *Organic Inspector*  
MacIvory, Mike - *Saskatchewan Agriculture and Food*  
MacKenzie, Kenna - *Agriculture and Agri-Food Canada*  
MacKinnon, Susan - *PEI Department of Agriculture, Fisheries and Aquaculture*  
MacNevin, Mary – *University of Prince Edward Island*  
Martin, Hugh - *Ontario Ministry of Agriculture and Food*  
McLean, Nancy - *Nova Scotia Agricultural College*  
McMahon, Beth and Holmes, Matthew - *Atlantic Canadian Organic Regional Network*  
Menzoës, Paula – *University of Guelph*  
Mirza, Mohyuddin - *Alberta Agriculture, Food and Rural Development*

Monreal, Marcia - *Agriculture and Agri-Food Canada*  
Mooleki, Patrick - *Saskatchewan Agriculture and Food*  
Morrison, Malcolm – *Agriculture and Agri-Food Canada*  
Moyer, Jim - *Agriculture and Agri-Food Canada*  
Neeser, Chris - *Alberta Agriculture, Food and Rural Development*  
Nurse, Rob – *Agriculture and Agri-Food Canada*  
Owen, Josee – *Agriculture and Agri-Food Canada*  
Patriquin, David - *Dalhousie University*  
Percival, David - *Nova Scotia Agricultural College*  
Peregrine, Andrew - *University of Guelph*  
Perrault, Don - *Saskatchewan Agriculture and Food*  
Peters, Doug - *Agriculture and Agri-Food Canada*  
Peters, Rick - *Agriculture and Agri-Food Canada*  
Phelps, Sherrilyn - *Saskatchewan Agriculture and Food*  
Pomboza, Ruth - *Agriculture and Agri-Food Canada*  
Prange, Robert - *Agriculture and Agri-Food Canada*  
Recksiedler, Blaine - *Saskatchewan Agriculture and Food*  
Reekie, Julia - *Agriculture and Agri-Food Canada*  
Risula, Dale – *Saskatchewan Agriculture and Food*  
Robinson, Darren– *Ridgetown College, University of Guelph*  
Rushen, Jeff - *University of British Columbia*  
Sawyer, Erin - *University of Saskatchewan*  
Scoles, Graham – *University of Saskatchewan*  
Sharpe, Keri - *Alberta Agriculture, Food and Rural Development*  
Shirliffe, Steve - *University of Saskatchewan*  
Singh, Av - *AgraPoint, NS*  
Smith, Susan - *BC Ministry of Agriculture, Food and Fisheries*  
Spaner, Dean - *University of Alberta*  
Sumner, Jennifer - *University of Guelph*  
Van Acker, Rene - *University of Guelph*  
van Leewen, John - *University of Prince Edward Island*  
Van Straaten, Peter - *University of Guelph*  
von Keyserlingk, Marina - *University of British Columbia*  
Voroney, Paul - *University of Guelph*  
Wally, Fran - *University of Saskatchewan*  
Warman, Phil - *Nova Scotia Agricultural College*  
Weseen, Simon - *University of Saskatchewan*  
Wright, Scott - *Saskatchewan Agriculture and Food*  
Yiridoe, Emmanuel - *Nova Scotia Agricultural College*  
Zafiriou, Margaret - *Agriculture and Agri-Food Canada*  
Zebarth, Bernie - *Agriculture and Agri-Food Canada*



## Expert Committee on Organic Agriculture

The Expert Committee on Organic Agriculture (ECO) has developed research priorities for each of 8 categories. The categories are 1) animals, 2) plants, 3) soils, 4) ecological systems, 5) health and food quality, 6) marketing and 7) policy and 8) sustainable agriculture and rural communities. The priorities for 2006 build on those developed in 2005 and are listed as succinct statements with some areas of concentration noted.

As a General Research Priority, ECOA recommends establishing funds and an application procedure to facilitate research in organic agriculture and food, to address the goals of carrying out research for the public good, including long term research, making research results publicly available and reducing requirements for matching funding from industry.

### 1. Animals

Design animal production systems that are most conducive to normal animal behaviour and animal health, while enhancing food safety.

A suggested area of concentration is:

- parasite control in livestock (especially sheep)

### 2. Plants

Conduct research focused on preventative pest management. Select and breed for plant varieties that adapt to diversified landscapes and regions, are disease and pest resistant/tolerant and competitive with weeds, and improve food quality and yield adequately, under organic management.

Suggested areas of concentration are:

- to develop and design plant/crop production systems with emphasis on preventative pest management
- to select and breed for plant varieties that adapt to diversified landscapes and regions, diseases and pest resistant/tolerant cultivars and competitive with weeds and for water and nutrients and that have high food quality and yield
- blight in potatoes, ragweed, yellow mustard, Canada thistle, quackgrass, kochia, tarnished plant bug, carrot maggot, cucumber beetle, wireworm, apple maggot, apple scab, cutworm

### 3. Soils

Assess short and long term soil fertility issues (for example the availability and/or buildup of organic matter, phosphorus, nitrate, zinc, copper, calcium and sulphur).

### 4. Ecological Systems

Determine how to optimize energy use on organic farms.

### 5. Health and Food Quality

Identify links between healthy soils and healthy food.

### 6. Marketing

Identify emerging consumer trends, serviced by imports, and the opportunities and barriers to investment and development in domestic production that could respond to emerging markets.

### 7. Policy

Assess the impact of new Genetically Engineered (GE) crops (e.g. alfalfa) on organic systems, while considering regulatory and liability issues. Conduct research to inform policy makers on the issues surrounding GE crops related to their ecological, social and economic impacts on agriculture, including organic agriculture.

Suggested areas of concentration are:

- threshold levels
- pathways of contamination
- effects on pollinators
- legislative models for dealing with liability issues
- strategies for developing GE free zones
- practical methods of limiting contamination on farms

#### 8. Sustainable Agriculture and Rural Communities

Study, evaluate and make public policy recommendations for organic agriculture as a form of sustainable agriculture that is environmentally, socially and economically responsible, and supportive of rural communities.

## Education

OACC web-based courses are available to farmers, students, and others involved in organic agriculture. Participants can register for the courses regardless of their location and participate in the course material during the hours most suitable to them. Many students have found the interactive approach to be enjoyable and educational. It can be a valuable experience to interact with the instructor and with classmates with similar interests and questions while sitting comfortably at home.

The courses offered in 2006 are listed below, followed by the host institution.

- Composting and Compost Use (Nova Scotia Agricultural College)
- Organic Field Crop Management (NSAC)
- Organic Livestock Production (NSAC)
- Transition to Organic Farming (NSAC)
- Principles of Organic Horticulture (NSAC)
- Key Indicators of Sustainable Agriculture (University of British Columbia)
- Organic Crop Production on the Prairies (University of Manitoba)
- Organic Marketing (University of Guelph)
- Weed Control in Organic Agriculture (University of Saskatchewan)

Four web-based courses were offered in French, through Université Laval. These courses are roughly equivalent to the first four listings above, offered at NSAC.

- Compostage et utilisation du compost en agriculture biologique
- Production biologique des cultures en champ
- Productions animales biologiques
- Transitions vers l'agriculture biologique

The Nova Scotia Agricultural College (NSAC) offers a "Certificate of Specialization in Organic Agriculture." Any student who has successfully completed four of the eligible organic agriculture credit courses (including at least two courses from NSAC), and who has an overall average of at least 60% in these courses can apply to receive a Certificate of Specialization in Organic Agriculture.

For more information or to register for a course please visit the OACC website in English:  
[http://oacc.info/Courses/courses\\_web.html](http://oacc.info/Courses/courses_web.html)

In French: [http://oacc.info/Courses/courses\\_web\\_f.html](http://oacc.info/Courses/courses_web_f.html)

## Website Report

The OACC/CABC website has continued to grow at a steady pace and demand for its pages has increased in the last year, confirming the value of the website and the integrity of a national organic agricultural research and education organization.

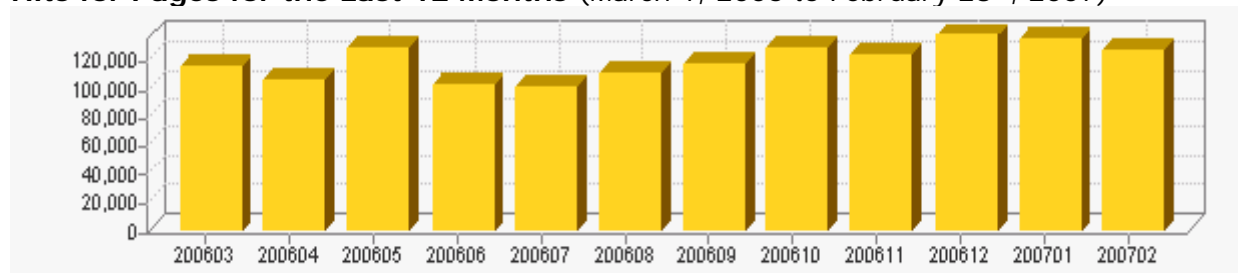
Highlights and new features added to the website in the last year include:

- A website assessment process led to a **brand new design and navigation for the entire site**
- Our centre d'agriculture biologique du Canada (CABC) site matches structure of OACC site
- Organic Friends **E-Zine** marked its second anniversary of publication in November 2006
- Approximately **3000 new files** were added to the site this last year.
- OACC's website was **#1 result** (out of a possible 25,900,000 results) in Google search for "organic agriculture" on March 7, 2007

**Table 1. Summary of OACC Website Statistics for March 1, 2006 - March 1, 2007**

Summary	Current Year	Previous Year (Mar. 2005-Mar. 2006)	Change
Total Hits all files	<b>4,228,046</b>	3,676,707	+ 15.0 %
Total Hits for pages	1,412,905	734,194	+ 92.4 %
Hits for pages in busiest month	<b>135,339 in Dec. '06</b>	87,957 in Jan. '06	+ 53.9 %
# Computers logged on	148,306	67,814	+ 118.7 %
<b>5 Top Directories</b>		<b>Previous Year</b>	
1	Research Database	Root (index, links, etc)	
2	Virtual Farm Tour	Virtual Farm Tour	
3	News Articles	Research Database	
4	Extension	Documents (pdf)	
5	Courses	News Articles	
<b>5 Top Files Requested, after homepages</b>		<b>Previous Year</b>	
1	Virtual Farm Tour	Virtual Farm Tour	
2	Newspaper Articles	Non-Gov't Links	
3	Job Opportunities	Job Opportunities	
4	Canadian Standards	Canadian Standards	
5	Non-Gov't Links	Market Information	

**Hits for Pages for the Last 12 Months (March 1, 2006 to February 28<sup>th</sup>, 2007)**



## Peer-Reviewed Publications and Theses

Arcand, M. 2007. Influencing the Quality of Green Manures with Phosphate Rocks in Organic Farming Systems. MSc Thesis. University of Guelph, ON.

Arcand, M.M., Lynch, D.H., Voroney, R.P., and van Straaten, P. 2006. Improving green manure quality with phosphate rocks in Ontario, Canada. *Aspects of Applied Biology* 79: 283-287.

Astatkie, T., Joseph, A.A., and Martin, R.C. 2006. A two-level unreplicated factorial design to determine the effect of organic and inorganic fertilizers on dry mater yield of permanent pasture. *Renewable Agriculture and Food Systems* [In Press].

Beavers, R.L., Hammermeister, A.M., Frick, B., and Martin, R.C. 2006. Spring wheat yield response to variable seeding rates in organic farming systems. [Submitted to *Canadian Journal of Plant Science*]

Hammermeister, A.M., Astatkie, T., Jelizkova, E.A., Warman, P.R., and Martin, R.C. 2006. Nutrient supply rates from organic amendments applied to unvegetated soil, lettuce and orchard grass. *Canadian Journal of Soil Science* 86: 21-33.

Iglesias, L.E., Saumell, C.A., Fernández, A.S., Fusé, L.A., Lifschitz, A.L., Rodríguez, E.M., Steffan, P.E. and Fiel, C.A. 2006. Environmental impact of ivermectin excreted by cattle treated in autumn on dung fauna and degradation of faeces on pasture. *Parastiology Research* 100: 93-102.

Liu, K. 2006. Soil and plant responses in the first cycle of four-year organic potato rotations. Ph.D. Dissertation. Dalhousie University, NS.

Lynch, D.H., Voroney, R.P., and Warman, P.R. 2006. Use of <sup>13</sup>C and <sup>15</sup>N natural abundance techniques to characterize carbon and nitrogen dynamics in composting and in compost-amended soils. *Soil Biology and Biochemistry* 38: 103-114.

Lynch, D.H., Zhiming, Z., Zebarth, B.J., and Martin, R.C. 2006. Organic amendment effects on tuber yield and quality, plant N uptake and soil mineral N under organic potato production [Submitted to *Biological Agriculture and Horticulture*]

Mason, H. 2006. Aboveground Weed Competitive Ability of Spring Wheat (*Triticum aestivum* L.) in Organic and Conventional Management Systems. Ph.D. Thesis, University Of Alberta, AB.

Mason, H., Goonewardene, L., and Spaner, D. 2007. Competitive traits and the stability of wheat cultivars in differing natural weed environments on the northern Canadian prairies. [Submitted to *Journal of Agronomy and Crop Science*]

Mason, H., Navabi, A., Frick, B. O'Donovan, J. Niziol, D., and Spaner, D. 2006. Does growing Canadian hard red spring wheat under organic management alter its bread making quality? *Renewable Agriculture and Food Systems* [In Press].

Mason, H., Navabi, A., Frick, B. O'Donovan, J., and Spaner, D. 2006. The weed-competitive ability of Canadian Western Red Spring wheat varieties under organic management. *Crop Science* [In Press].

Mason, H., Navabi, A., Frick, B. O'Donovan, J., and Spaner, D. 2006. Cultivar and seeding rate effects on the competitive ability of organic spring cereals in the northern Canadian Prairie. [Submitted to *Agronomy Journal*]

Mason, H.E. and Spaner, D. 2006. Competitive ability of wheat in conventional and organic management systems: a review. *Canadian Journal of Plant Science* 86: 333-343.

Moreau, T., Warman, P.R., and Hoyle, J. 2006. An evaluation of companion planting and botanical extracts as alternative pest controls for the Colorado Potato Beetle. *Biological Agriculture and Horticulture* 23: 351-370.

Riofrio, A. 2006. Economics of Introducing Forage and Livestock into Alternative Crop Rotation Systems During the Transition to Organic Agriculture. M.Sc. Thesis. McGill University, QC.

Riofrio, A., Yiridoe, E.K., Henning, J., Hammermeister, A.M., and Martin, R.C. 2006. Economic analysis of crop rotation systems during the transition to organic agriculture. Selected paper presented at the joint Canadian Economics Association and Canadian Agricultural Economics Society Conference. May 25-28, 2006. Montreal, QC.

Roberts, C., Lynch, D.H., and Voroney, R.P. 2006. Farm nutrient status in relation to farm management and productivity across fifteen organic dairy farms in Ontario. [Submitted to *Canadian Journal of Soil Science*]

Sturz, A.V., Lynch, D.H., Martin, R.C., and Driscoll, A.M. 2006. Influence of compost tea, powdered kelp and Manzate 75 on the community composition and antibiosis against *Phytophthora infestans* of bacteria in the potato phylloplane. *Canadian Journal of Plant Pathology*, 28: 52-62.

Wiens, M.J., Entz, M.H., Martin, R.C., and Hammermeister, A.M. 2006. Agronomic benefits of alfalfa mulch applied to organically managed spring wheat. *Canadian Journal of Plant Science* 86: 121-131.

### **Non-Refereed Publications**

Beavers, R. Seeding vs. Weeding: Seeding Rate for Weed Control. *Canadian Organic Grower Magazine*. Summer 2006.

Frick, B. Going with the Grains. *Canadian Organic Grower Magazine*. Winter 2007.

Frick, B. 2007 OCIA Calendar. Organic Crop Improvement Association International. Photos for Jan., Feb., Mar., Apr., Jun., and Nov.

Frick, B. Organic Strength in Saskatchewan (cover story). *Saskatchewan Institute of Agrologists Newsletter*. Winter 2006.

Frick, B. The Value of Weeds in the Garden. *Canadian Organic Grower Magazine*. Summer 2006.

Frick, B. The Pulse of the Prairie. *Canadian Organic Grower Magazine*. Spring 2006.

Graves, M. Current state of gastrointestinal parasitism in organic beef cattle in the Maritimes. Undergraduate thesis, Nova Scotia Agricultural College. December 2006.

Yiridoe, E.K. and Martin, R.C. Economic Performance of Alternative Sheep Grazing and Management Systems. *Purebred Sheep Producers Association of NS newsletter*. December 2006.

## Newspaper Articles

Every month, organic research and innovation in Canada is highlighted in a newspaper article appearing in publications for both Eastern and Western Canada. These articles are posted at the OACC website one month after publication. To read more, click on News Articles at [www.oacc.info](http://www.oacc.info)

Organic Visionary Honoured (Brenda Frick, Dec. 2006)

Temple Grandin uses "Critical Control Points" to measure animal welfare (Jane Murrigan, Dec. 2006)

Microbes Show the Benefits of Green Manuring (Brenda Frick, Nov. 2006)

Combining Profits and Environmental Benefits on Organic Farms (Frances Willick, Nov. 2006)

Organic Livestock Producers Cooperate to Access Growing Markets (Brenda Frick, Oct. 2006)

Avian Influenza, Biosecurity and Organic Poultry Production (Jane Murrigan, Oct. 2006)

Organic Research Opportunities Abound at University of Manitoba (Brenda Frick, Sept. 2006)

Farmers Working Together for a Fair Price (Frances Willick, Sept. 2006)

Sharing Organic Knowledge (Brenda Frick, Aug. 2006)

Organic Farmers and Indigenous Knowledge (Jennifer Sumner, Aug. 2006)

What Would Mother Nature Do? (Brenda Frick, July 2006)

OACC is Five and Counting (Ralph Martin, July 2006)

Are No-Till and Organic Converging? (Brenda Frick, June 2006)

The Importance of Animal Welfare in Organic Livestock Production – Part 2 (Jane Murrigan, June 2006)

Conducting Experiments on the Farm (Brenda Frick, May 2006)

The Importance of Animal Welfare in Organic Livestock Production – Part 1 (Jane Murrigan, May 2006)

Organic Agriculture and Biodiversity: Is there a link? (Alison Burton, April 2006)

Bioactive forages to control roundworms in sheep (Silvina Fernández, April 2006)

Meet Your Organic Neighbours on a Virtual Farm Tour (Frances Willick, March 2006)

Dwayne Woolhouse Named OCIA Outstanding Organic Farmer of 2006 (Brenda Frick, March 2006)

Organic Inspectors See It All (Brenda Frick, Feb. 2006)

Are Livestock And Forages Needed On Organic Farms? (Kui Liu, Andy Hammermeister and Frances Willick, Feb. 2006)

Some consumers want to eat foods without pesticides (Frances Willick, Jan. 2006)

Large On-Farm Study Confirms Organic Recommendation (Roxanne Beavers and Brenda Frick, Jan. 2006)

# 1<sup>st</sup> International Organic Apple and Pear Symposium

February 28-March 2, 2006 in Wolfville, NS

The Symposium was organized by the Organic Agriculture Centre of Canada (OACC) and the International Society for Horticultural Science (ISHS), in collaboration with Agriculture and Agri-food Canada (AAFC), Atlantic Canadian Organic Regional Network (ACORN) and the Nova Scotia Fruit Growers Association (NSFGA). Scientists from around the world attended the two-day symposium, which was the first international scientific meeting to focus on organic apple and pear production.

The following papers presented at the symposium will be published in a special issue of *Acta Horticulturae* edited by Derek Lynch (NSAC) and Bob Prange (AAFC Kentville). Abstracts of these papers are available from the website [www.organicapple.ca](http://www.organicapple.ca)

## Post-Harvest

Cmelik, Z., Zadavec, P., Tojnko, S., Schlauer, B., Vogrin, A. and Unuk, T. Sensory Evaluation of Fruits of some Organically Grown Scab-Resistant Apple Cultivars

DeLong, J.M., Prange, R.K. and Harrison, P.A. Chlorophyll Fluorescence-based Low-O<sub>2</sub> CA Storage of Organic 'Cortland' and 'Delicious' Apples

Ionica, M.E., Nour, V. and Botu, M. Study Concerning the Influence of the Electro-ionic Technology on the Apples' Long Term Storage

Róth, E., Berna, A., Beullens, K., Lammertyn, J., Schenk, A. and Nicola, B. Postharvest Quality of Integrated and Organically Produced Apple Fruit

Rupasinghe, H.P.V., Kean, C., Nichols, D. and Embree C. Orchard Waste as a Valuable Bio-Resource: A Chemical Composition Analysis

Sugar, D. and Basile S.R. Alternatives to Fungicides for Pear Postharvest Decay Control

## Plant Nutrition and Production

Alegre, S. and Alins, G. The Flower Thinning Effect of Different Compounds on Organic 'Golden Smoothie<sup>®</sup>' Apple Trees

Nunn, L., Embree, C., Hebb, D. and Nichols, D. Rotationally Grazing Hogs for Orchard Floor Management in Organic Apple Orchards

Reig, G., Larrigaudière, C. and Soria, Y. Effects of Organic and Conventional Growth Management on Apple Fruit Quality at Harvest

Tojnko, S., Cmelik, Z., Vogrin, A., Schlauer, B. and Unuk, T. The Effects of Organic Fertilizers on Performance of 'Topaz' Apple in Organic Growing Systems

Voroney, P., Kessel, C., Gardner, J. and Martin, H. Soil Fertility Survey of Organic Apple Orchards in Southern Ontario

## State of Industry

Granatstein, D. and Kirby, E. The Changing Face of Organic Tree Fruit Production

Middleton, S.G., Zeppa, A.G., Nimmo, P.R. and Horlock, C.M. Organic Production of a New Australian-bred Scab Resistant Apple in Queensland, Australia

Neilsen, G., Cossentine, J., Forge, T., Hampson, C., Hogue, E., Judd, G., Neilsen, D., Sholberg, P. and Thistlewood, H. Organic Apple Production in British Columbia: Discovery to Application

Rom, C.R., Friedrich, H. and McAfee, J. Organic Fruit Production: Challenges and Opportunities for Research and Outreach

Weibel, F.P., Tamm, L., Wyss, E., Daniel, C., Häseli, A. and Suter, F. Organic Fruit Production in Europe: Successes in Production and Marketing in the Last Decade, Perspectives and Challenges for the Future Development

## **Pest Management**

Alins, G., Alegre, S. and Avilla, J. Effects of Autumn Treatments on Rosy Apple Aphid Colonies in Spring

Jamar, L. and Lateur, M. Strategies to Reduce Copper Use in Organic Apple Production

Privé, J.P., Russell, L., Braun, G. and LeBlanc, A. 'Bordeaux'/'Kumulus' Regimes and 'Surround' in Organic Apple Production in New Brunswick: Impacts on Apple Scab, Fruit Russetting and Leaf Gas Exchange

van der Maas, M.P. Increasing High Quality Production of Organically Grown Apples through a System's Approach including Management of Vf Scab Resistance

## **3<sup>rd</sup> OACC Organic Agriculture Research Symposium - Natural Sciences**

**January 26, 2006 at the University of Guelph, ON**

This was the third research symposium, organized by OACC to present university level research relevant for organic production in Canada. Oral presentations were given by university and government researchers from across Canada and from Germany, and a graduate student poster competition was held. The symposium was presented in conjunction with the 25<sup>th</sup> Annual Guelph Organic Conference: 'Living organic, the next 25 years'. A Symposium on Social Research in Organic Agriculture was also held; please see [www.oacc.info/ResearchDatabase/res\\_socsci-06.asp](http://www.oacc.info/ResearchDatabase/res_socsci-06.asp) for descriptions of oral presentations.

### **Oral Presentations**

Clark, E.A., Eccles, L., and Maitland, K. Cover crops for late summer in organic cereal rotations

Clark, E.A., Sumner, J., and Maitland, K. On the ecological sustainability of organic farming  
Lynch, D.H., Roberts, C., and Voroney, R.P. 2006. Farm nutrient status under organic dairying in Ontario.

Manns, H., Emery, R.J.N., Maxwell, C.D., Kay, B.D., and Dunfield, K. Surface crop residue effects on soil fungi, carbon and moisture

Pick, D. Importance of networking for organic farms with regard to GMO issues – A comparison between selected regions of North America and Germany

Peters, R.D., Sturz, A.V., and MacLeod, J.A. The benefits of using lobster processing waste as a soil amendment in organic potato production

Hammermeister, A., Lynch, D.H., Nass, H., and Martin, R.C. Organic feed grains research in Atlantic Canada

### **Posters**

Arcand, M. and Lynch, D. Soil phosphorus dynamics as affected by a green manure crop grown with phosphate rocks

Burkhard, N.E., Lynch, D.H., and Percival, D.C. Organic mulches: an effective weed control alternative for highbush blueberries?

Kaut, A., Navabi, A., O'Donovan, J., and Spaner, D. Comparing spring wheat cultivar mixtures under conventional and organic management in Alberta

### **Additional presentations at the Guelph Organic Conference. Jan. 26-29, 2006**

Lynch, D.H., Voroney, R.P., and Welsh, C. Soil fertility status on Canadian organic farms.

Fernández, S. Research Activities: Parasite Control in Organic Livestock

Martin, R.C. From GMO coexistence to contamination



## Invited Talks

- Beavers, R. and Hammermeister, A.M. How to do on-farm research. NB Organic Apprenticeship Orientation. Falls Brook Centre, NB. April 2006.
- Frick, B. 2006. Ensuring Quality Crops: Green Manures 101. Organic Connections Conference. Saskatoon, SK. Nov. 2006.
- Hammermeister, A.M. 2006. Food Safety: An Organic Perspective. Nova Scotia Federation of Agriculture AGM. Truro, NS. Dec. 2006.
- Hammermeister, A.M. 2006. Is Organic Redefining Agriculture? Innovation for Growth - Trends and Successes Redefining Agriculture. Agricultural Institute of Canada Conference. Winnipeg, MB. Nov. 2006
- Lynch, D.H. 2006. Integrated farm to field-scale approaches to managing manure nutrients. Integrated Solutions to Manure Management III. London, ON. Mar. 2006,
- Lynch, D.H. 2006. Nutrient flows and soil carbon storage on pasture-based and organic dairy farms. Farmers Taking Charge: Improving Farm Income and Mitigating Greenhouse Gases, Soil and Crop Improvement Associations of NS, NB and PEI. Moncton, NB. Mar. 2006.
- Lynch, D.H. 2006. Opportunities for use of compost in agriculture. 'Composting Matters'. Composting Council of Canada conference. Debert, NS. Mar. 2006.
- Lynch, D.H. 2006. Organic farming and the need for a new agricultural research paradigm. Keynote speaker at annual conference of Certified Organic Association of British Columbia. Abbotsford, BC. Feb. 2006.
- Lynch, D.H. 2006. Organic agriculture and research in Canada. Talk presented to official delegation of Irish Parliamentarians on behalf of AAFC International Scientific Cooperation Bureau, AAFC Ottawa. Sept. 2006.
- Lynch, D.H. 2006. Nutrient Dynamics in Canadian Organic Systems (Plenary session) Organic Connections Conference. Saskatoon, SK. Nov. 2006.
- Lynch, D.H. and A. Hammermeister. 2006. Organic agriculture: A new agricultural paradigm? Keynote talk at Graduate Research Day, Mar. 31<sup>st</sup>, Nova Scotia Agricultural College, Truro, NS. Mar. 2006. Talk also featured on 'Podium TV' on Eastlink television.
- Martin, R.C. 2006. Reinventing Research for Organic Systems. Fruit Production Seminar at University of Saskatchewan, Saskatoon, SK. Nov. 2006.
- Martin, R.C. 2006. Research Opportunities in a Growing Organic Sector. Biology Department, Acadia University, Wolfville, NS. Mar. 2006.
- Martin, R.C. 2006. A Vision for Organic Farms and Food in Canada (Plenary session) Organic Connections Conference. Saskatoon, SK. Nov. 2006.
- Martin, R.C. 2006. Grazing for profit, health and environmental benefits. Sharing Knowledge on Agriculture and Rural Life in Atlantic Canada. Mabou, N.S. July 2006.
- Martin, R.C. and Hammermeister, A. 2006. Organic Research: Who wants to know What, and Why? College of Agriculture, University of Saskatchewan, Saskatoon, SK. Feb. 2006
- Martin, R.C. and MacRae, R. 2006. Possibilities for Organic Agriculture in Ontario. Presented 3 times to OMAF management team, faculty and staff at University of Guelph and OMAF Crop Technologists. Guelph, ON. Nov. 2006.
- Martin, R.C., Lynch, D.H., Hammermeister, A.M. and Frick, B. 2006. Plant Protection in Canada: Challenges in Organic Agriculture. Quebec Society for the Protection of Plants. Victoriaville, QC. June 2006.

## Conference Presentations and Posters

- Arcand, M.M., Lynch, D.H., Voroney, R.P., and Van Straaten, P. 2006. Improving green manure quality with phosphate rocks in Ontario Canada. *Poster presented at 'What will Organic Farming deliver? A conference of the Association of Applied Biologists in conjunction with the Colloquium of Organic Researchers, Edinburgh, Scotland. Sept. 2006.*
- Beavers, R., Hammermeister, A., Frick, B., Lynch, D.H. and Martin, R.C. 2006. Increasing seeding rate in organic production: effects of weed competition, crop yield and quality. Canadian Society of Agronomy Atlantic Agronomy Workshop. Charlottetown, PE. Jan. 2006.
- Bond, E., Suderman, R., Fernández, S., Menzies, P. and Peregrine, A. 2006. Characterization of the population dynamics and impact of gastrointestinal nematodes in organic sheep farms in Ontario & Quebec. Ontario Veterinary College Summer Leadership Program Poster Presentations, Guelph, ON. Aug. 2006.
- Bromm, J. 2006. Best cropping practices. OACC Best Organic Management Practices Workshop. Morse, SK. Nov. 2006.
- Burkhard, N., Lynch, D.H., and Percival, D. 2006. Effect of mulch applications on nitrogen fertility and the growth and productivity of organically managed highbush blueberry. Annual meetings of Canadian Society of Horticultural Science. Halifax, NS. Aug. 2006 [First Prize, Graduate Student Competition].
- Burkhard, N., Lynch, D.H., and Percival, D. 2006. The influence of mulch applications on vegetation dynamics in organically managed highbush blueberry. *Poster presented at the American Society of Horticulture Annual Conference. New Orleans, USA. July 2006.*
- Carignan, G., McLean, N., Fredeen, A.H., Winter, J. and Martin, R.C. 2006. Productivity, quality and diversity of a pasture sward in Atlantic Canada. Canadian Society of Agronomy Colloquium, Halifax, NS. Aug. 2006.
- Carignan, G., McLean, N., Fredeen, A.H., Winter, J. and Martin, R.C. 2006. Cow condition, milk yields and milk quality when grazing in a modified management intensive grazing system in Atlantic Canada. *Poster presented at the Canadian Society of Agronomy Colloquium. Halifax, NS. Aug. 2006. [Second Prize, Graduate Student Competition].*
- de Graaff, M., McLean, N., Fredeen, A.H. and Martin, R.C. 2006. Productivity, persistence and nutritive quality of deep-rooted forage mixtures under a first-cut harvest and subsequent grazing system. Canadian Society of Agronomy Colloquium. Halifax, NS. Aug. 2006.
- Fernández, S., Berthéléme, C., Schofield, P., Winder, C., Peregrine, A., Martin, R.C. 2006. Gastrointestinal parasites in organic cattle farms in New Brunswick, Canada. 11<sup>th</sup> International Congress of Parasitology. Glasgow, Scotland. Aug. 2006.
- Frick, 2006. Research and Education: Secretary's report. Organic Crop Improvement Association Research and Education AGMM. LaCrosse, Wisconsin.
- Frick, B. (Organizer) 2006. Organic research on the prairies: an update. Bruno Organic Update Conference, Bruno SK. Feb. 2006.
- Frick, B., Lowndes, S. and Bromm, J. 2006. Best livestock practices. OACC Best Organic Management Practices Workshop. Morse, SK. Nov. 2006.
- Hammermeister, A., Lynch, D.H., Nass, H. and Martin, R.C. 2006. Organic feed grains research in Atlantic Canada. Canadian Society of Agronomy Workshop on Agronomy. Charlottetown, PEI. Jan. 2006.

Hammermeister, A.M. 2006. Innovation and Growth with Organic Agriculture. Innovation for Growth - Trends and Successes Redefining Agriculture. Agricultural Institute of Canada Conference. Winnipeg, MB. Nov. 2006

Hammermeister, A.M. 2006. Organic Feed Grains. Atlantic Canada Organic Regional Network Conference, Wolfville, NS. Mar. 2006.

Hammermeister, A.M. 2006. Organic Feed Grains. Canadian Society of Agronomy Atlantic Agronomy Workshop, Charlottetown, PE. Jan. 2006.

Hammermeister, A.M. 2006. Potato and barley response to wild radish. Canadian Society of Agronomy Colloquium. Halifax, NS. Aug. 2006. [Best Presentation Award]

Hammermeister, A.M. How to do on-farm research. Atlantic Canada Organic Regional Network Conference, Wolfville, NS. Mar. 2006.

Liu, K., Hammermeister, A.M., Warman, P.R., Entz, M.H. and Martin, R.C. 2006. Nitrogen responses to amendments and crop rotations varying in proportions of forages in the first three years of four-year crop rotations. Canadian Society of Soil Science Conference. Halifax, NS. Aug. 2006.

Lynch, D.H., Roberts, C., and Voroney, R.P. 2006. Sustainability of organic dairying in Canada. pp 454-455 in 'Organic Farming and European Rural Development'. Proceedings of the European Joint Organic Congress, Odense, Denmark. May 2006.

Martin, R.C. 2006. The role of organic systems in reinventing agricultural research. Canadian Society of Agronomy Colloquium. Halifax, NS. Aug. 2006.

McLean, N. and Martin, R.C. 2006. Renovating old forage stands with legumes. Focus on Forage Workshop. Truro, NS. April 2006.

Morrigan, J. 2006. Assessing Farm Animal Welfare. Canadian Organic Growers' Eco-Farm Day. Cornwall, ON. Feb. 2006.

Riofrio, A., Yiridoe, E.K., Henning, J., Hammermeister, A. and Martin, R.C. 2006. Economic analysis of crop rotation systems during the transition to organic agriculture. Canadian Economics Association and Canadian Agricultural Economics Society Conference. Montreal, QC. May 2006.

Zhiming, Z., Lynch, D.H., Percival, D., and Burkhard, N. 2006. Incubation PRS<sup>TM</sup>-N flux on organic highbush blueberries (*Vaccinium corybosum* L.) soils with and without sawdust mulch. *Poster presented at* Annual meetings of Canadian Society of Horticultural Science. Halifax, NS. Aug. 2006.

## Meetings and Workshops

The following list outlines additional events that were coordinated or attended by different OACC staff members.

- Avian Bio-security Forum. Canadian Food Inspection Agency, Ottawa, ON.
- Composting Workshop with Elaine Ingham, sponsored by Alberta Organic Producers Association, Edmonton, AB
- *Creating strategic relationships – telling a powerful story* Marketing Workshop. Coordinated by B. Frick in collaboration with Alberta Agriculture, Food and Rural Development. Leduc, Lethbridge and Grande Prairie, AB.
- Hempoil Canada Research Meeting, Saskatoon, SK
- Maritime Research Needs Consultation, Wolfville, NS
- Meeting with Dr. Mohyuddin Mirza, Alberta Agriculture about greenhouse organics
- NB Livestock Producers Meeting, Havelock, NB
- Organic Producers' Training Needs Assessment Steering Committee, Bruno, SK

- PEI Farmer Consultations, Charlottetown, PE
- Press event to announce new Saskatchewan Legislative Secretary for Organic Farming, Saskatoon, SK
- Saskatchewan Organic Directorate AGM, Moose Jaw, SK
- Saskatchewan Organic Livestock Annual Meeting. Moose Jaw, SK (Organized by J. Bromm)

## Field Days and Farm Tours

Throughout the year a variety of organic field days are held across Canada. In addition to our research collaborators, OACC staff visit or tour many organic farms and field stations across the country. The following list indicates farm tours and field days coordinated or attended by OACC staff members.

- AAFC Harrington Field Day: Harrington PE
- AAFC Lethbridge Research Station, Bob Blackshaw: Lethbridge, AB
- Agrifest: Canning, NS
- *Atlantic Country Composting*, Terrence Boyle: Antigonish, NS
- *Back to the Farm Research Foundation*, Elmer Laird: Davidson, SK
- Blackburn, Brent: Estevan, SK
- Canada-Saskatchewan Irrigation Diversification Centre Field Day: Outlook, SK
- *Eisses Farm*, Aaron and Jim Eisses: Lower Onslow, NS
- *Falls Brook Center Pest Management Day*
  - *Good Spring Farm*, Karen Davidge: Keswick Ridge, NB
  - *W.B. Coburn & Sons*, David Coburn: Keswick Ridge, NB
- OACC Organic Station Field Day and 5<sup>th</sup> Birthday: Brookside, NS
- OACC Plots NB Field Day
  - *Bunnett Family Farm*, David Bunnett: Havelock, NB
  - Jopp, Frank: Mount Pisgah, NB
- OACC Plots PEI Field Day #1: Kensington, PE
- OACC Plots PEI Field Day #2: Kensington, PE
- OCIA SK#4 Organic Field Day: Lemburg, SK
  - *Lily and Rose Organic Farm*, Marion and Chuck Leniczek: Lemburg, SK
- OCIA SK#5 Organic Field Day
  - *Drieger Farm*, Terry Drieger: Vanscoy, SK
  - Sparrow, Craig and Marilyn Wood-Sparrow: Vanscoy, SK
  - *Bonnie Tweedie Farm*: Delisle, SK
  - Robbins, Jim and Nettie Wiebe: Delisle, SK
- OCIA SK#8 Organic Field Day: Liseaux, SK
  - *Meridien Organics*, Angie and Winton Schmidt: Rock Glen, SK
- *Red Fox Farm*, Jennifer Scott: Hants County, NS
- Runnels, Andres: Kinkora, PE
- Saskatchewan Organic Producers Association Field Day
  - *Country Lane Farms*, Harvey Buhr: Raymore, SK
- Saskatchewan Vegetable Growers Field Day
  - Letwinka, Rick: Craven, SK
- Treparnier Farm: ON
- University of Manitoba Department of Plant Science Field Day: Glenlea and Carman Research Stations, Certified Organic Field Lab: Winnipeg, MB

## Committees and Professional Activities

### Jennifer Bromm:

- Facilitator, Saskatchewan Organic Livestock
- Advisor, Organic Connections Board
- Advisor, SOD committee to revise Organic Farming on the Prairies

### Silvina Fernández:

- Member, Ontario Organic Research Advisory Committee
- Committee member for PhD candidate América Mederos
- Instructor, Organic Livestock Production web-based distance education course (NSAC)
- Special Graduate Faculty, Dept. of Population Medicine, Ontario Veterinary College
- Co-advisor, summer students Robyn Suderman and Erin Bond
- Co-advisor, 4<sup>th</sup> year student Margaret Graves
- Assistant Editor of the World Association for the Advancement of Veterinary Parasitology (WAAVP) Newsletter

### Brenda Frick:

- Board Member, Organic Crop Improvement Association Research and Education
- Member, Saskatchewan Organic Directorate Research Committee
- Member, Steering Committee for Organic Learning Needs Assessment
- Advisor and Speaker Chair, Organic Connections Board
- Peer Review, Weed Science Society of America
- Member, Saskatchewan Weed Subcouncil
- Advisor, SOD committee to revise Organic Farming on the Prairies
- Committee member for Ph.D. candidates Alison Nelson, and Heather Mason (defended 2006)

### Andy Hammermeister:

- Member, Agricultural Institute of Canada (AIC) 2006
  - AIC Board of Directors
  - AIC Conference organizing committee
- AIC Discussion Paper Technical Review Committee
- Member, Canadian Society of Agronomy
- Member, Canadian Society of Soil Science
- Professional Agrologist, Nova Scotia Institute of Agrologists
- Chair, Organic Extension Forum
- Committee member for Ph.D. candidate Kui Liu (defended 2006)
- Co-supervisor for M.Sc. Candidate Donald Kerr
- External examiner for Johanna Nesbitt, MES Defense
- External examiner for Jennifer Roper, M.Sc. Admission to Candidacy

### Derek Lynch:

- Canada Research Chair in Organic Agriculture
- Voting member, Canadian General Standards Board Technical Committee on Organic Agriculture
- Member, Expert Committee on Organic Agriculture
- Eastern Director, Canadian Society of Agronomy.
- Co-Editor, Acta Horticulturae volume of papers presented at the 1<sup>st</sup> International Organic Apple and Pear Symposium

- Supervisor for M.Sc. candidates Nicole Burkhard, Karen Larder and Postdoctoral Fellow, Zhiming Zheng at NSAC and M.Sc. candidates Cory Roberts and Melissa Arcand (defended), and Ph.D. candidate Gudmundur Johannesson at the University of Guelph
- Committee member for M.Sc. candidate Alicia Cooper and PhD candidates Ardhini Maharning (Dalhousie University) and Carolyn Parsons (Memorial University)

**Ralph C. Martin:**

- Chair, Expert Committee on Organic Agriculture
- Chair, Organic Animal Welfare Task Force
- Chair, Steering Committee for OACC Prairie Coordinator
- Chair, OACC Market Research Group
- Facilitator, Organic Prairie Research Coalition
- Secretary, Saskatchewan Organic Commission
- Chair, Natural Sciences Research Symposium at Guelph Organic Conference
- Co-convener, First International Organic Apple and Pear Symposium
- Chair, NSAC Crops Committee
- Member, Advisory Committee on Agriculture, Statistics Canada
- Chair, NSAC Instructional Development Committee
- Co-Chair, NSAC Promotion and Tenure Committee

**Jane Morrigan:**

- Member, Organic Animal Welfare Task Force

## **OACC Advisory Board**

OACC is an operating division of the Nova Scotia Agricultural College (NSAC) and is served by an Advisory Board representing stakeholder groups from across Canada. The Advisory Board represents stakeholder groups from across Canada. It is comprised of thirteen members appointed by the President of NSAC for staggered three year terms.

Volunteer board members deliberate and make recommendations about policy, strategic directions and sustaining OACC. The Board considers feedback from Advisory Forums held at organic conferences across Canada each year. Groups represented on the Board include organic farmers, transitional farmers, food distributors and retailers, university researchers, students, Agriculture and Agri-Food Canada and organic organizations. The board must include at least one member from Manitoba or Alberta, and each of British Columbia, Saskatchewan, Ontario, Québec and the Atlantic provinces.

### ***2006 Advisory Board Members:***

**Ian Cushon (Chair)**, Moose Creek Organic Farm Inc., Saskatchewan

**Danielle Brault**, Ministère de l'agriculture, des pêcheries et de l'alimentation du Québec

**Martin de Groote**, Organic Farmer, Mapleton's Organic, Ontario

**Dag Falck**, Nature's Path Foods, Inc.

**Mike Leclair**, Agriculture and Agri-Food Canada

**Debbie Miller**, Manager, Organic Crop Improvement Association Canada

**Alison Nelson**, Student, University of Alberta

**Pat Pollock**, Organic Farmer, Pollock Farms, Manitoba

**Keri Sharpe**, Alberta Agriculture, Food and Rural Development

**Ann Slater**, Organic Farmer, Ecological Farmers Association of Ontario

**Bill Thomas**, Thomas Canning

**Dr. Paul Voroney**, University of Guelph

**Dr. Emmanuel Yiridoe**, Nova Scotia Agricultural College

## Core OACC Staff

### Dr. Silvina Fernández

Research Associate  
University of Guelph  
Tel: (519) 824-4120 ext 54819  
Email: [fernands@uoguelph.ca](mailto:fernands@uoguelph.ca)

### Dr. Brenda Frick

Prairie Coordinator  
Tel: (306) 966-4975  
Email: [brenda.frick@usask.ca](mailto:brenda.frick@usask.ca)

### Dr. Andrew Hammermeister

Research Associate  
Tel: (902) 893-8037  
Email: [ahammermeister@nsac.ca](mailto:ahammermeister@nsac.ca)

### Dr. Derek Lynch

Assistant Professor and Canada Research Chair  
in Organic Agriculture  
Tel: (902) 893-7621  
Email: [dlynch@nsac.ca](mailto:dlynch@nsac.ca)

### Dr. Ralph C. Martin

Founding Director  
Tel: (902) 893-6679  
Email: [rmartin@nsac.ca](mailto:rmartin@nsac.ca)

### Jane Morrigan

Website Coordinator  
Tel: (902) 893-8096  
Email: [jmorrigan@nsac.ca](mailto:jmorrigan@nsac.ca)

### Margaret Savard

Administrative Coordinator  
Tel: (902) 893-7256  
Email: [msavard@nsac.ca](mailto:msavard@nsac.ca)

### Shelly Juurlink

Organic Dairy Extension Specialist and  
Research Coordinator  
Tel: (902) 896-2467  
Email: [sjuurlink@nsac.ca](mailto:sjuurlink@nsac.ca)

### Roxanne Beavers

Research Coordinator  
Tel: (902) 893-7256  
Email: [rbeavers@nsac.ca](mailto:rbeavers@nsac.ca)

### Mark Bernard

Research Coordinator (PEI)  
Tel: (902) 887-3188  
Email: [mdbernard@nsac.ca](mailto:mdbernard@nsac.ca)

### Jennifer Bromm

Prairie Research Technician

### Andrea Munroe

Research Technician  
Tel: (902) 893-7791  
Email: [amunroe@nsac.ca](mailto:amunroe@nsac.ca)

### Chris Nelson

Research Technician  
Tel: (902) 893-7791  
Email: [cnelson@nsac.ca](mailto:cnelson@nsac.ca)

## Seasonal Staff

Amanda Bristol  
Margaret Graves  
Jody Nelson  
Heather Purves  
Lloyd Rector  
Paula Schofield  
Molly Seaton-Fast  
Wendy Sharpe  
Naomi Wilson  
Robyn Suderman  
Erin Bond

## Graduate Students and Postdoctoral Fellows

### *NSAC/Dalhousie University*

Nicole Burkhard (M.Sc.)  
Don Kerr (M.Sc.)  
Kui Liu (Ph.D.)  
Karen Nelson (M.Sc.)  
Sukkasini Thissaverasingan (M.Sc.)  
Zhiming Zheng (PDF)

### *University of Guelph*

América Mederos (Ph.D.)  
Cory Roberts (M.Sc.)  
Melissa Arcand (M.Sc.)  
Gudmundur Johannesson (Ph.D)

### *McGill University*

Andres Riofrio (M.Sc.)

### *University of Alberta*

Todd Reid (Ph.D.)  
Alison Nelson (Ph.D.)  
Amy Kaut (M.Sc.)  
Heather Mason (Ph.D.)

### *University of Manitoba*

Ann Kirk (M.Sc.)  
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Rebecca Nason (M.Sc.)  
Solet Turmel (M.Sc.)



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