

# Identifying Strategies to Support Sustainable Agriculture in Canada



## Forum Co-Chairs

Kim Shukla, *PAg, CAC, President, Agricultural Institute of Canada*

Ron Pidskalny, *PAg, Director, Agricultural Institute of Canada*

## Technical Program Committee

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Jean Sullivan, *PAg, Agricultural Institute of Canada*

Rene C. Van Acker, *University of Manitoba*

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Denis Boutin, *Agr., Ministère du Développement durable,  
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Isabelle Breune, *Agr., Agriculture and Agri-Food Canada*

Sandy Todd, *PAg, Agriculture and Agri-Food Canada*

Tim Marta, *Agriculture and Agri-Food Canada*

Leah Soroka, *Prairie Farm Rehabilitation Administration*

Allen Matthews, *University of Vermont, Center for Sustainable Agriculture*

Tom Bruulsema, *Potash and Phosphate Institute of Canada*

Andrew Hammermeister, *Organic Agriculture Centre of Canada*

## Forum Administrator

Elizabeth Muckle-Jeffs, *The Professional Edge*

T: 1-800-868-8776 (North America)

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Agriculture and Agri-Food Canada (AAFC) is pleased to participate in the production of this publication. AAFC is committed to working with our industry partners to increase public awareness of the importance of the agriculture and agri-food industry to Canada. Opinions expressed in this document are not necessarily AAFC's or the Agricultural Institute of Canada's.

The Agricultural Institute of Canada gratefully acknowledges the financial support received from Agriculture and Agri-Food Canada and industry partners.

**Agriculture, Pêcheries  
et Alimentation**

**Québec**



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**Consulat général  
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et Parcs**

**Québec**



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**Canada**

Canada's Agriculture and Agri-Food sector produces an abundant supply of food, feed and fibre, but not without impacts to our natural resource base – particularly air, soil, water and biodiversity.

The Canadian public is generally aware of the relationship between environmental quality and the quality of life and health, and Canadian consumers are increasingly expecting agricultural practices to be conducted in an environmentally sustainable manner – a factor that influences their purchasing decisions and those of like-minded consumers in export markets.

Historically, farmers have been recognized as stewards of the environment but in order to achieve a truly sustainable agriculture sector it is essential to address the increased challenges they are facing: being charged with implementing new approaches that will address environmental issues, while maintaining quality and sufficiency of food production, trying to sustain an economically viable business, and preserving the social fabric of their lifestyle that has its roots in vital and vibrant rural communities.

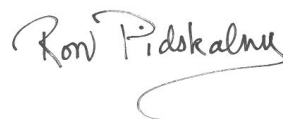
The integration of science, policy and information exchange are key to developing and implementing strategies that will advance sustainable agriculture. The results will help to ensure an abundant supply of safe and high-quality products for consumers, protect our natural resource base from further degradation, and will contribute to the economic and social well being of all Canadians.

The Agricultural Institute of Canada, in collaboration with l'Ordre des agronomes du Québec, and other partners, is hosting the national forum: Identifying Strategies to Support Sustainable Agriculture in Canada to address the issues and explore approaches to achieving measurable advances towards the goals for sustainability.

The forum will bring together researchers, professional agrologists, producers, environmental NGOs and government policy makers to provide status and trends updates on the issues, examine advances in technology and innovation, present case studies of best environmental on-farm practices, and stimulate discussion on existing gaps in research and policy that need to be addressed.



Kim Shukla, CAC, PAg  
Forum Co-Chair



Ron Pidskalny, PAg  
Forum Co-Chair

# Registration Form

Please complete this form and mail or fax to:  
Forum Administrator  
1027 Pembroke Street East, Suite 200  
Pembroke ON K8A 3M4  
F: 613-732-3386

Registration fees include participation in all sessions, morning and afternoon beverage breaks, two luncheons and a networking reception on Monday, November 7. There is an additional reception for AIC members only, on Sunday, November 6.

Name .....

Name for Badge .....

Business Title .....

Organization .....

Postal Address ..... City .....

Province ..... Postal Code .....

Telephone ..... Fax .....

Email ..... Web Site .....

Do you require a receiver for simultaneous interpretation?  Yes  No

Please indicate any accessibility requirements .....

Please indicate any food allergies or requirement for vegan or vegetarian meals .....

**Farm Tours** I am interested in participating in the Farm Tours on November 9. Please contact me with details.  Yes  No

## Early Registration (payment received by August 31, 2005)

AIC Members/Speakers/Posters \$200.00 + \$14.00 GST = \$214.00

\*Non-Members: \$300.00 + \$21.00 GST = \$321.00

Exhibitors: \$400.00 + \$28.00 GST = \$428.00

## Late Registration (payment received after August 31, 2005)

AIC Members/Speakers/Posters \$250.00 + \$17.50 GST = \$267.50

\*Non-Members: \$350.00 + \$24.50 GST = \$374.50

Exhibitors: \$450.00 + \$31.50 GST = \$481.50

**Cheque:** Make cheques payable to AIC Sustainable Agriculture Forum.

**Credit Card:**  MasterCard  Visa

Credit Card Number ..... Expiry Date .....

Name on Card ..... Signature .....

Refund Policy: Registration fees are refundable less a \$25 administration fee, if written notification of cancellation is provided to the Forum Administrator before October 3, 2005. Refunds will not be issued until after the forum.

\* If you are not currently a member of the Agricultural Institute of Canada, but support AIC's mission "to have a positive impact on the agri-food sector", please consider joining. AIC members include farmers, agri-business professionals, agrologists and agronomes, certified crop advisors, consultants, scientists, academics and consumers. You may sign-up on-line at [www.aic.ca](http://www.aic.ca), then register for the Forum at the Member rate and save \$100 on your registration fee.

GST Number: 106689094RT

## Forum Location and Accommodation

All sessions are being held at Loews Le Concorde, 1225 cours du Général de Montcalm, Quebec City, Quebec. Participant attire is business casual.

A block of rooms has been reserved at the hotel for forum participants at the preferred group rate of \$119 single or double occupancy. Reservations are to be made directly with the hotel by calling 1-800-463-5256 and be sure to mention that you are attending the AIC Forum. The deadline to make reservations as part of the group block is October 1, 2005. After that date guest rooms will be provided based on availability and at the prevailing room rate at the time the reservation is made.

### **Loews Le Concorde**

1225 cours du Général de Montcalm  
Quebec City, QC G1R 4W6  
Reservations: 1-800-463-5256  
Hotel: 418-647-2222  
F: 418-647-4710  
[www.loewshotels.com](http://www.loewshotels.com)

## Forum Registration

The deadline for early registration is August 31, 2005. Registration fees include participation in all sessions, morning and afternoon beverage breaks, two luncheons and a networking reception on Monday, November 7. There is an additional reception for AIC members only, on Sunday, November 6. Payment of registration fees can be made by purchase order, cheque, or money order payable to AIC Sustainable Agriculture Forum. You may also pay by MasterCard or Visa. Please send the completed registration form with payment to:

Forum Administrator  
1027 Pembroke Street East, Suite 200  
Pembroke ON K8A 3M4  
T: 1-800-868-8776 (North America)  
T: 613-732-7068 (International)  
F: 613-732-3386

You may also register on the AIC Web site and provide credit card information through the secure server. Registrations on-line will be considered complete when payment has been processed.

[www.aic.ca/conferences/registration\\_online.cfm](http://www.aic.ca/conferences/registration_online.cfm)

## Cancellation and Refund Policy

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## Program Changes

The dates and times of sessions and presentations are subject to change. Please refer to the AIC Web site for updates [www.aic.ca/conferences](http://www.aic.ca/conferences), or contact the Forum Administrator at 1-800-868-8776.

## Airlines

Jean Lesage International Airport has daily scheduled service by the following commercial airlines:

Air Canada  
1-888-247-2262  
[www.aircanada.ca](http://www.aircanada.ca)

Continental Express  
French: 1-800-537-3444  
English: 1-800-231-0856  
[www.continental.com](http://www.continental.com)

Northwest Airlines  
1-800-225-2525  
[www.nwa.com](http://www.nwa.com)

Zoom Airlines  
1-866-749-3344  
[www.gotraveldirect.com](http://www.gotraveldirect.com)

## Ground Transportation

Jean Lesage International Airport is a 20-minute drive from downtown Quebec City. Taxis are available at all times and the fare from the airport to the downtown core is \$27 one way.

## Farm Tours

Two Quebec City area farm tours will be offered to forum participants and each tour will include visits to two or three farms in the regions of Île d'Orléans and Baie Saint-Paul (Charlevoix); or Saint-Anselme (Bellechasse) and Saint Lambert de Lauzon (La Nouvelle Beauce). The focus of the tours will be:

Option A: Niche market farming and on-farm transformation

Option B: Organic and sustainable farming

The cost for motor coach transportation is \$20/person round-trip. Dinners in the style of "Repas Champêtre" will be offered for each tour and include a 5-course table d'hôte menu for approximately \$40 per person, including tax and gratuity. Space is limited so please contact the Forum Administrator to register early and ensure your participation.

# Sunday, November 6

## An Introduction to Québec's Agriculture Industry

3:30 – 5:00

*This informal session, which will be conducted in English, will provide participants with background information about the primary agricultural production in Québec and its importance within Canada. It will also provide an overview of the various players in the Québec agriculture sector, and in sustainable agriculture, as well as their respective mandates. Speakers are members of the Technical Program Committee from Québec, and a representative from the Ministère de l'Agriculture, des Pêcheries et de l'Alimentation (MAPAQ) [Québec's Ministry of Agriculture, Fisheries and Food].*

7:00

### Reception for AIC Members

# Monday, November 7 Morning

## Sustainable Agriculture: Setting The Stage

*Session Chairs: Kim Shukla, PAg and Ron Pidskalny, PAg, Agricultural Institute of Canada*

8:30

### Welcome and Opening Remarks

*Forum Co-Chairs:*

*Kim Shukla, PAg, CAC, President and*

*Ron Pidskalny, PAg, Director, Agricultural Institute of Canada*

*Invited dignitaries to be confirmed.*

8:50

*Jacques Lebuis, Ministère de l'Agriculture, des Pêcheries et de l'Alimentation*

9:15

### AIC Foundation Klinck Lecture

#### The Issues of Sustainable Development in Agriculture: Challenges and Prospects

*Marcel Mazoyer, Agrologist and Economist, Professor of Comparative Agriculture, Institut national agronomique, France*

10:15

Networking Break

10:45

### Big Farms, Small Farms

#### Strategies For Sustainable Agriculture to Fit All Sizes

*Hugh Maynard, QU'ANGLO Communications & Consulting and Jacques Nault, Logiag Inc.*

11:15

Questions and Discussion Period

12:00

AIC Honours and Awards Luncheon

*AIC is proud to present the following Honours and Awards:*

*AIC International Recognition Award - Ms. Dinah Ceplis, Brandon, Manitoba;*

*AIC International Partners Award - Mr. Benito (Beny) Mwenda, Itamba, Tanzania*

*AIC Fellowship Award - Hon. Lyle Vanclief, PAg (Dist.), Ameliasburg, Ontario;*

### Keynote Luncheon Address

#### Revisiting the Regulatory Approach in Québec Agriculture: A Crucial Step on the Road to Sustainable Agriculture

*Guy Debailleul, Full Professor of Agricultural Economics, Université Laval*

# Monday, November 7 Afternoon

## Economics, Marketing and Trade

Session Chair: Allen Matthews, University of Vermont

1:30

### **Agriculture and Environment: A Trade Opportunity, Barrier Or An Environmental Disaster?**

*Chantal Line Carpentier, Commission for Environmental Cooperation (CEC)*

1:50

### **Role of Valuation of Public Goods in Sustainable Agricultural Policy Formulation**

*George Pearson, Pearson & Associates Agri-Consulting Inc.*

2:10

### **Ecological Economics Applied to Agricultural Issues**

*Roelof Boumans, Gund Institute, University of Vermont*

2:30

### **Comparable Profitability of Northeast Organic Dairy Farms**

*Robert Parsons, University of Vermont*

2:50

Networking Break

3:20

### **Encouraging the Adoption of Beneficial Management Practices on Canadian Farms: Who Should We Reach Out To?**

*Martin Beaulieu, Statistics Canada, Agriculture Division*

3:40

### **Ecological Goods and Services to Support Sustainable Agriculture in Canada**

*T. Shane Gabor, Ducks Unlimited Canada*

4:00

### **Baseline For Setting Up an Incentive Program For the Establishment and Preservation of Riparian Buffer Zones in Farming Areas**

*Jean Nolet, ÉcoRessources Consultants*

4:20

### **Short, Solidarity-based Farm Marketing Channels: Context and Practices**

*Frédéric Paré, Équiterre*

4:40

**Panel Discussion**

## Policies and Programs

Session Chair: Guy Debailleul, Université Laval

1:30

### **Agriculture and Agri-Food Canada's Third Sustainable Development Strategy**

#### **Sustainable Agriculture: Our Path Forward**

*Kathy Wilson, Agriculture and Agri-Food Canada, Agri-Environmental Policy Bureau*

1:50

### **Farm-related Environmental Policy in Québec: History, Current Status, and Prospects for the Future**

*Pierre Baril, Ministère du Développement durable, de l'Environnement et des Parcs*

2:10

### **The Quest For Policy Supporting Sustainable Development in Agriculture: A Prospective View**

*Denis Boutin, Ministère du Développement durable, de l'Environnement et des Parcs*

2:30

### **Designing Programs to Accelerate Adoption of IPM and Organic Farming in Canada**

*Rod MacRae, World Wildlife Fund Canada*

2:50

Networking Break

3:20

### **Implementing a New Regulatory Framework for Alberta's Livestock Industry: A Regulator's Perspective**

*Sheila Leggett, Natural Resources Conservation Board*

3:40

### **Environment and Structural Crisis in the Hog Production Model: What Role for ISO 14001-type Environmental Management Systems?**

*Bertrand Montel, RBC Financial Group*

4:00

### **Joint Agriculture and Agri-Food Canada and Pest Management Regulatory Agency Risk Reduction Program**

*Suzanne Chalifour, Health Canada, Pest Management Regulatory Agency; Cezarina Kora, Agriculture and Agri-Food Canada*

4:20

### **A Methodology to Assess the Effectiveness of Environmental Regulations in Canada**

*Jean Nolet, ÉcoRessources Consultants*

4:40

**Panel Discussion**

# Monday, November 7 Evening

## Poster Session

5:30

### Poster Session and Open Reception for all Participants

#### **Who is Food Chain?**

*Bruce Pearse, Food Chain*

#### **The Challenge of an Integrated Agri-Environmental Management System**

*David Armitage, Ontario Federation of Agriculture*

#### **Crop Rotation and Minimum Tillage Are Elements of Sustainable Potato Production in Atlantic Canada**

*Rick D. Peters, Agriculture and Agri-Food Canada*

#### **Wild Plants, Sustainable Agriculture and Ecological Problems: Three Examples From European Countries**

*Iliyana Damyanova-Kirilova, Canadian Bulgarian Cultural Centre "Zornica"*

#### **Should Farm Environmental Certification Be Predicated by the Quality of the Receiving Environment – Are There Lessons to Be Learned at the Small Watershed Scale of Nathan Creek, British Columbia?**

*George Derksen, Environment Canada*

#### **Economic Potential of Canadian Afforestation Under Kyoto**

*Jonathan Buttle, Natural Resources Canada, Canadian Forest Service*

#### **Innovations in Near-urban Agriculture: Can Farming Persist in the Urban Shadow?**

*Nicolas Brunet, University of Guelph*

#### **The Environmental Farm Plan: An Approach to the Management of Agricultural Non-Point Source Contamination**

*John FitzGibbon, University of Guelph*

#### **Profile of the "Moi, je mange bio!" Media Campaign**

*Frédéric Paré, Équiterre*

#### **Precision Soil and Water Conservation Through Remote Sensing and GIS: Insights From Twin Watersheds Case Studies**

*Julie Deslandes, Institut de recherche et de développement en agroenvironnement Inc. (IRDA)*

#### **Transition Strategies For Organic Farming**

*Andrew M. Hammermeister, Organic Agriculture Centre of Canada*

#### **Productivity, Quality and Diversity of a Pasture Sward in Atlantic Canada**

*Gaëtane Carignan, Nova Scotia Agricultural College, Department of Plant and Animal Sciences*

# Tuesday, November 8 Morning

## Plenary Session

*Session Chair: Allen Matthews, University of Vermont*

8:30

### **Keynote Address:**

#### **Sustainable Agriculture – A North American Snapshot**

*John Ikerd, Professor Emeritus of Agricultural Economics, University of Missouri, Columbia*

## Sustainable Resource Management

*Session Chair: David Chanasyk, University of Alberta*

9:30

#### **Monitoring of Fertilization Practices and Water Quality in Two Small Farm Watersheds in Québec**

*Michel Patoine, Ministère du Développement durable, de l'Environnement et des Parcs*

9:50

#### **Farm-by-Farm Approach Within the Agri-Environmental Strategy: Promises and Illusions!**

*Roch Bibeau, Agricultural Producer and Isabelle Breune, Agriculture and Agri-Food Canada*

10:10

#### **Nutrient Management of Raspberries for Improvement of Groundwater Quality**

*Kim Sutherland, BC Ministry of Agriculture, Food and Fisheries*

10:30

Networking Break

11:00

#### **Alternative Land Use Services (ALUS): The Farmer's Conservation Plan**

*Robert O. Bailey, Delta Waterfowl Foundation*

11:20

#### **An Integrated Agri-environmental Diagnostic Tool**

*Annabel Avery, Ducks Unlimited Canada*

11:40

#### **National Agri-Environmental Standards Initiative (NAESI)**

*Elizabeth Roberts, Environment Canada*

## Luncheon

12:00

### **Keynote Luncheon Address**

*Thomas J. Mulcair, Ministre du Développement durable, de l'Environnement et des Parcs*

## Community and Social Considerations

*Session Chair: Denis Boutin, Ministère du Développement durable, de l'Environnement et des Parcs*

9:30

#### **Learning Strategies to Build Human Capital and Social Capital for Sustainable Rural Communities**

*Karen Rempel, Brandon University, Rural Development Institute*

9:50

#### **Territoriality and Agricultural Development Strategy**

*Jacques Proulx, Solidarité rurale du Québec*

10:10

#### **Social Sustainability Indicators for Canada's Agriculture and Agri-food Sector**

*Marlene Roy, International Institute for Sustainable Development*

10:30

Networking Break

11:00

#### **The Public Consultations on Sustainable Hog Production**

*Alfred Marquis, Bureau d'audiences publiques sur l'environnement (BAPE)*

11:20

#### **Coordinating Initiatives Through a Watershed Committee to Optimize Our Strategy, Program, Policy, and Action Outcomes**

*François Lajoie, Groupe d'intervention pour la restauration de la rivière Boyer*

11:40

#### **Taking the Public's Concerns into Account in Setting up a Framework for the Sustainable Development of Hog Farming in Québec**

*Jacques Leblais, Ministère de l'Agriculture, des Pêcheries et de l'Alimentation*

# Tuesday, November 8 Afternoon

## Practical Approaches to Sustainable On-Farm Production

*Session Chair: Rene Van Acker, University of Manitoba*

1:30

### **Organic Farming: A Review of Current Production Research and Research Priorities**

*Andrew M. Hammermeister, Organic Agriculture Centre of Canada*

1:50

### **Lessons From the Intervale**

*Lindsey Ketchel and Sharon Fialco, Intervale Foundation*

2:10

### **Implementing a Successful Farmer Grants Program**

*Allen Matthews, University of Vermont, Center for Sustainable Agriculture*

2:30

### **Discussion Period**

2:50

Networking Break

3:20

### **Agricultural Planning For Environmental Action: A Canadian Perspective on Environmental Farm Planning**

*Dean Smith, PAg, Agriculture and Agri-Food Canada*

3:40

### **A Farmer's Approach to Sustainable Agriculture**

*Loïc Dewavrin, Les Fermes Longprés Itée*

4:00

### **Development of Nutrient Management in Ontario: A Review of Progress Toward Continuous Improvement**

*David Armitage, Ontario Federation of Agriculture*

4:20

### **The Québec Approach to Agri-environmental Support**

*Robert Robitaille, Ministère de l'Agriculture, des Pêcheries et de l'Alimentation*

4:40

### **An Agreement for the Funding of Agri-environmental Advisory Clubs and Farm Agri-environmental Planning**

*Simon Marmen, Clubs-conseils en agro-environnement*

## Innovation and Knowledge: Drivers for Sustainable Agriculture

*Session Chair: Claudel Lemieux, Agriculture and Agri-Food Canada*

1:30

### **Assessing the Environmental and Economic Benefits of BMPs at Watershed Scale Across Canada (the WEBs project)**

*Terrie Scott, Agriculture and Agri-Food Canada, Prairie Farm Rehabilitation Administration*

1:50

### **Energy from Manure**

*Don Dautovich, Don-Esh Management and Research Ltd.*

2:10

### **Feedlot Biogas Generation**

*Mike Kotelko, Highland Feeders Ltd.*

2:30

### **Renewable Energy – A New Product for Livestock Farms**

*Benjamin Strehler and Heinz Keller, Keller Engineering Associates Inc.*

2:50

Networking Break

3:20

### **Disease Control and Crop Nutrition in Organic Potato Production Achieved With Lobster Processing Waste**

*Rick D. Peters, Agriculture and Agri-Food Canada*

3:40

### **The Case for Pesticide Risk Indicators: A Performance and A Guidance Tool**

*Jacques Drolet, Health Canada, Pest Management Regulatory Agency*

4:00

### **The Orchard at Mount Saint Bruno National Park: A Unique Educational Showcase, and Solutions to Sustainable Apple Production in Québec**

*Vincent Phillion, Institut de recherche et de développement en agroenvironnement (IRDA)*

4:20

### **Waste Air Treatment by Biofiltration: A Sustainable Strategy**

*C. Samuel Ima, University of Manitoba*

4:40

### **Integrating Climate Change Adaptation Strategies With Sustainable Agriculture Practices**

*Ellen Wall, University of Guelph*

# Tuesday, November 8 Evening

## Plenary Session

5:00

### **AIC Annual General Meeting**

*All Welcome*

5:30

Adjourn

## Consultation Workshop

### **Producer Perspectives – Sustainable Agriculture in Canada**

*The Agricultural Institute of Canada is seeking producer feedback on the AIC discussion paper on sustainable agriculture “Big Farms, Small Farms, Strategies For Sustainable Agriculture to Fit All Sizes” (available on the AIC website at [www.aic.ca](http://www.aic.ca))*

6:00

Light Dinner

7:00

#### **Welcome/Purpose**

*Kim Shukla, PAg, CAC, President,  
Agricultural Institute of Canada*

#### **Process Review**

*Kathleen Connelly, Facilitator, Intersol Group*

7:10

#### **Review of AIC Discussion Paper *Big Farms, Small Farms, Strategies For Sustainable Agriculture to Fit All Sizes***

*Hugh Maynard, Qu’Anglo Communications & Consulting*

#### **Producer Perspectives**

- small group and plenary discussion

*You are invited to participate and help identify possible elements of a strategy to support sustainable agriculture in Canada including:*

- Elements common to all/most producers.
- Elements that are regional and/or commodity specific.

7:30

#### **Reactions from Producers to the AIC Paper**

- What do we like about the proposed strategy?
- What are our concerns?

8:30

#### **Additional Elements of a Strategy**

- What additional elements would need to be considered in developing a Canadian Strategy for Sustainable Agriculture?
- Commodity specific?
- Region specific?

9:20

#### **Closing Comments**

*Kim Shukla*

- Next steps

There is no fee to participate in the workshop, but we do need to track the number of participants. Please contact Elizabeth Muckle-Jeffs, Forum Administrator, by October 31 to confirm your participation. T: 1-800-868-8776 E: [profedge@renc.igs.net](mailto:profedge@renc.igs.net)

# Wednesday, November 9 Morning

## Biotechnology

*Session Chair: Sandy Todd, PAg, Agriculture and Agri-Food Canada*

8:30

### **GMO Labelling**

*Fatima Houda-Pépin, Présidente de la Commission de l'agriculture, des pêcheries et de l'alimentation*

8:50

### **Contribution of GM Crops to Sustainable Agriculture: Do Québec Grain Producers Think It's Possible?**

*Bruno Larue, Canada Research Chair in International Agri-Food Trade and Interim Director of the Centre for Research in the Economics of Agri-Food (CREA), Laval University*

9:10

### **Value Enhanced, Stress Tolerance (VEST™) Technologies For Agriculture**

*David T. Dennis, Performance Plants*

9:30

### **Genetically Engineered (GE) Crops and an Ecologically and Socially Sustainable Agriculture**

*Éric Darier et Frédéric Martel, Greenpeace Canada*

9:50

### **GMOs, the Pesticide Sector and the Herbicide "Roundup": What Lessons Are There For Sustainable and, Most Importantly, Viable Agriculture?**

*Louise Vandelac, Université du Québec à Montréal*

10:10

### **Sustaining a Diversity of Farming Opportunities: Transgene Confinement and the Coexistence of GM and Non-GM Crops**

*Rene Van Acker, University of Manitoba*

10:30

Networking Break

## Plenary Session

11:00

### **Plenary Session to Identify Strategies to Support Sustainable Agriculture in Canada**

*Facilitated Discussion*

12:00

Adjourn

## Sustainability and Beneficial Management Practices

*Session Chair: Dennis McKnight, University of Guelph, Kemptville College*

8:30

### **Landscape and Management Controls on a Phosphorus Transfer System Within an Agricultural Watershed**

*Aubert Michaud, Institut de recherche et de développement en agroenvironnement Inc. (IRDA)*

8:50

### **Farming Operations and River Carrying Capacity: the Case of Total Phosphorous**

*Georges Gangbazo, Ministère du Développement durable, de l'Environnement et des Parcs*

9:10

### **Using SWAT for Water, Sediment and Nutrient Transport in Agricultural Areas: A Case Study in Southern Québec**

*Isabelle Beaudin, Institut de recherche et de développement en agroenvironnement Inc. (IRDA)*

9:30

### **Economic Evaluation of BMPs in Canadian Agriculture**

*Clyde Graham, Canadian Fertilizer Institute*

9:50

### **Mitigating Greenhouse Gases By Promoting Soil Conservation and Conservation Agriculture Through Farmer Associations**

*Doug McKell, Soil Conservation Council of Canada*

10:10

### **Woodlands: Supporting the Sustainability Challenge**

*Michael Slivitsky, Canadian Model Forest Network*

10:30

Networking Break

## Farm Tours

1:00

*Two Québec City area farm tours will be offered to forum participants and each tour will include visits to two or three farms in the regions of Île d'Orléans and Baie Saint-Paul (Charlevoix); or Saint-Anselme (Bellechasse) and Saint Lambert de Lauzon (La Nouvelle Beauce). Advanced registration is required. The focus of the tours will be:*

*Option A: Niche market farming and on-farm transformation*

*Option B: Organic and sustainable farming*