

# 3<sup>rd</sup> Annual Growing the Margins:

Energy, Bioproducts and Byproducts  
from Farm and Food Sectors  
Conference & Exhibition

March 9-13, 2009  
London Convention Centre  
London, Ontario, Canada

## Monday, March 9, 2009

8:00 am - 9:00 am Registration & Continental Breakfast (London Hilton Ontario)  
Air Quality in Rural Ontario Workshop

## Tuesday March 10, 2009

8:00 am Registration & Continental Breakfast (London Convention Centre)  
1. European Union/Ontario Biogas Networking Forum  
2. Biomass Heat Networking Forum  
3. Building Your Biogas System Workshop

5:30pm - 7:00pm Reception (Cash Bar) at the London Convention Centre

## Wednesday, March 11 2009

7:00am - 4:30pm Registration Desk Opens – Continental Breakfast (London Convention Centre)

7:00am - 8:00am Breakfast for Speakers, Session Chairs

### Growing the Margins/Canadian Farm and Food Biogas Conferences

#### Plenary #1

Chair: John McMullen

- 8:30am - 10:00am
1. Donna Cansfield, Ontario Minister of Natural Resources
  2. Douglas Bradley, President, Canadian Bioenergy Association (CanBio), Ottawa, and Board Member, World Bioenergy Association, *Bioenergy Taking Off in Canada*
  3. Steve Flick, Show Me Energy Cooperative, Kingsville, Missouri, *US Bioenergy Prospects and Developments*
  4. Sebastian Stolpp, German Biogas Association, Freising, DE, *The European Perspective on Bioenergy*

10:00am - 10:30am Refreshments – Exhibition and Posters Open

### GTM A

**G1A**  
**Opportunities in Food Processing 1**  
Chair: Chris Hanlon, Ag Energy Co-operative

- 10:30am – 12:00 pm
- Concurrent Session #1**
1. Prioritizing Energy Efficiency Projects Ahead of Co-Gen Installations, Douglas Dittburner, Molson Coors Canada, Toronto, ON
  2. Implementing Best Management Practices and Pollution Prevention in Ontario's Food Processing Industry, Khosrow Farahbakhsh, University of Guelph, Guelph, ON
  3. The Maastricht Circle - Ten Years Strong, Phil Dick, Ontario Ministry of Agriculture, Food and Rural Affairs, Guelph, ON

### GTM B

**G1B**  
**Energy Policy and Programs**  
Chair: Victoria Gagnon, Ontario Power Authority

1. Ontario Power Authority Update, Jim MacDougall, Ontario Power Authority, Toronto, ON
2. Why Community Power and Local Owners Need an Evolved Renewable Energy Standard Offer Program and a Green Energy Act, Kristopher Stevens, Ontario Sustainable Energy Association, Toronto, ON
3. Ontario Renewable Energy Policy Initiatives, Rick Jennings, Ontario Ministry of Energy and Infrastructure, Toronto, ON

### GTM C

**G1C**  
**Biomass Feedstocks**  
Chair: Mahendra Thimmanagari, Ontario Ministry of Agriculture, Food and Rural Affairs

1. Biomass Feedstocks – Residues, Forages, or Dedicated Feedstocks? Ian McDonald, Ontario Ministry of Agriculture, Food and Rural Affairs, Guelph, ON
2. Growing Short Rotation Woody Crops in a Tree-Based Intercropping System in Southern Ontario, Canada, Naresh Thevathasan, University of Guelph, Guelph, ON
3. From Wood to Agriculture Biomass in Bioheat Applications, Chris Rees, Canadian Bioenergy Association, North Bay, ON

12:00pm – 1:30pm

**Lunch**  
**Certificate of Recognition Awards**  
Peter Love, Ontario's Chief Energy Conservation Officer

	<b>GTM A</b>	<b>GTM B</b>	<b>GTM C</b>
<p>1:30pm – 3:00pm</p> <p><b>Concurrent Session #2</b></p>	<p><b>G2A</b> <b>Opportunities in Food Processing 2</b> <b>Chair: Phil Dick, Ontario Ministry of Agriculture, Food and Rural Affairs</b></p> <p>1. Classifying Materials Used for Green Energy Production, Don Hilborn, Ontario Ministry of Agriculture, Food and Rural Affairs, Woodstock, ON</p> <p>2. Air Quality Issues Around Energy Production from the Combustion of Biomass, Bill Van Heyst, University of Guelph, Guelph, ON</p> <p>3. Making Businesses More Competitive through Energy Conservation, James Moore, Lahren James Inc., Cambridge, ON</p>	<p><b>G2B</b> <b>Energy Project Financing</b> <b>Chair: Robert Tmej, Ontario Ministry of Energy and Infrastructure</b></p> <p>1. The Tax Benefits of Green Energy and Energy Efficiency Projects, Dave Norris, Deloitte, Windsor, ON</p> <p>2. Renewable Energy Projects - Planning, Pitfalls, and Grant/Financing Programs, Derek Satnik, Mindscape Innovations Group Inc, Kitchener, ON</p> <p>3. Moving Larger-Scale Viable Energy Projects into the “In Business” Stage on a More-Timely Basis, Mike Bouk, Ag Energy Co-operative, Guelph, ON</p>	<p><b>G2C</b> <b>Biomass Case Studies</b> <b>Chair: Ian McDonald, Ontario Ministry of Agriculture, Food and Rural Affairs</b></p> <p>1. The Show Me Energy Cooperative - A US Model for Producers Involvement in Bio Energy Production, Steve Flick, Show Me Energy Cooperative, Kingsville, Missouri</p> <p>2. Building an Ontario Biomass Pellet Fuel Business, Don Nott, Clinton, ON</p> <p>3. Trials and Tribulations of Biomass Combustion to Heat in a Greenhouse Facility, Bill Heeg, Sunchoice Produce, Simcoe, ON</p>
<p>3:00pm – 3:30pm</p>	Refreshments – Exhibition and Posters		
	<b>GTM A</b>	<b>GTM B</b>	<b>GTM C</b>
<p>3:30pm – 5:00pm</p> <p><b>Concurrent Session #3</b></p>	<p><b>G3A</b> <b>Bioproducts 1</b> <b>Chair: Mahendra Thimmanagari, Ontario Ministry of Agriculture, Food and Rural Affairs</b></p> <p>1. Wastes and Undervalued Coproducts from Biofuel Industries as Raw Materials for New Industrial Products: Greener Pathway for a Sustainable Bioeconomy, Amar Mohanty, University of Guelph, Guelph, ON</p> <p>2. A Retrospective Look at the Fuel Versus Food Debate, Gord Surgeoner, Ontario Agri-Food Technologies, Guelph, ON</p> <p>3. Soybean Business Development In Canada - What Makes the Most Sense? Jeff Schmalz, Soy 20/20, Guelph, ON</p>	<p><b>G3B</b> <b>On-Farm Energy Efficiency</b> <b>Chair: Victoria Gagnon, Ontario Power Authority</b></p> <p>1. Energy Productivity - Getting the Most from Your Energy Dollar!, Chris Hanlon, Ag Energy Co-operative, Guelph, ON</p> <p>2. A Holistic Approach to Energy Conservation and Generation on a Dairy Farm, Steven Veldman, Velrob Farm, Embro, ON</p> <p>3. Tapping into Energy Efficiency Funding For the Farm, Steve Clarke, Ontario Ministry of Agriculture, Food &amp; Rural Affairs, Kemptville, ON</p>	<p><b>G3C</b> <b>Opportunities for Renewable Fuel Production</b> <b>Chair: Sam Bradshaw, Ontario Pork</b></p> <p>1. Farm Scale Feed and Bio-Fuel Production – Revolutionary Approach Allows Farmer To Regain Control of Input Costs, Jasmin Hofer, Energrow Inc., Newton, ON</p> <p>2. What is the Cost of On-Farm Biodiesel Production?, Kevin McKague, Ontario Ministry of Agriculture, Food and Rural Affairs, Woodstock, ON</p>
<p>5:00 – 6:30pm</p>	Reception (cash bar)		
<p>6:30pm-8:30pm</p>	<p><b>Banquet (optional ticket)</b></p> <p><b>Over Coffee Debate: Food versus Fuel? Panel (TBD) and Audience</b></p>		

**Thursday, March 12 2009**

7:00am – 1:00pm	Registration Desk Opens – Continental Breakfast (London Convention Centre)		
7:00am - 8:00am	Breakfast for Speakers, Session Chairs		
8:30am – 10:00am	<p align="center"><b>Growing the Margins/Canadian Farm and Food Biogas Conferences</b>  <b>Plenary #2</b>                  Chair: John McMullen</p> <ol style="list-style-type: none"> <li>George Smitherman, Ontario Minister of Energy and Infrastructure (invited)</li> <li>Peter Nelson, Principal, BioDimensions, Memphis, Tennessee, <i>Rural and Ag-Based Entrepreneurs and the Role of President Barack Obama</i></li> <li>Michael Ott, Executive Director, BIOWA, Iowa City, Iowa, <i>Past, Present and Future of Renewable Energy</i></li> <li>Marion Fraser, President, Fraser &amp; Company, Toronto, <i>Growing the Margins Through the Green Energy Act</i></li> </ol>		
10:00am – 10:30am	Refreshments – Exhibition and Posters		
	<b>GTM A</b>	<b>GTM B</b>	<b>GTM C</b>
10:30 am – 12:00 pm  <b>Concurrent Session #4</b>	<p><b>G4A</b>  <b>Bioproducts 2</b>                  Chair: Tammy Tondevold, Ontario Ministry of Agriculture, Food and Rural Affairs</p> <ol style="list-style-type: none"> <li>Bio Products Add Value to Crops and to Industry End Users, Ruben Lenz, Advanced Micro Polymers, Milton, ON</li> <li>High Performance Biobased Lubricants, Donald Marentette, DM's Bio-Based Fluid Supply Inc., Bolton, ON</li> <li>Opportunities for Renewable Biomass for Sustainable Bioproducts, Manju Misra, University of Guelph, Guelph, ON</li> </ol>	<p><b>G4B</b>  <b>Small-Scale Wind and Solar</b>                  Chair: Jody Barclay, Natural Resources Canada</p> <ol style="list-style-type: none"> <li>Harvesting the Sun, Rolf Maurer, Arntjen Solar NA Inc., Innerkip, ON</li> <li>Solar Thermal Installation at a Poultry Farm, John Verway, Copperhill, ON</li> </ol>	<p><b>G4C</b>  <b>Cellulosic Ethanol: Status and Potential Feedstocks Panel</b>                  Chair: Kevin Montgomery, Ontario Ministry of Agriculture, Food and Rural Affairs</p> <p><b>What Cellulosic Feedstocks will Work and Who are the Buyers going to be?</b></p> <ol style="list-style-type: none"> <li>Dean Tiessen, Pyramid Farms Ltd, Leamington, ON</li> <li>Lisa and Jim Highfield, Strongfield Technologies Inc., Mount Brydges, ON</li> <li>Tim Leitch, Greenfield Ethanol, Toronto, ON</li> <li>Larry Shrawder, AIMCO/Harvest Technologies, Kempton, PA</li> </ol>
12:00pm – 1:00pm	Lunch		
	<b>GTM A</b>	<b>GTM B</b>	<b>GTM C</b>
1:00pm – 2:30pm  <b>Concurrent Session #5</b>	<p><b>G5A</b>  <b>Greenhouse Gases Panel</b>                  Chair: David Walker, New Brunswick Department of Agriculture, and Aquaculture</p> <ol style="list-style-type: none"> <li>Greenhouse Gas Reductions and Carbon Offsets, Keith Sutherland, Bennett Jones, LLP, Toronto, ON</li> <li>Quantifying Canadian Dairy Sector GHG Emissions Using an ISO Standard Approach, Cedric MacLeod, Atlantic Dairy and Forage Institute (ADFI), Fredericton, NB</li> <li>Successful GHG Credit Project Implementation – Lessons from International Kyoto Projects, Michael Muffels, Conestoga-Rovers &amp; Associates, Waterloo, ON</li> <li>Opportunities for Biogas and Biodigester Projects in Emerging Canadian and International Carbon Markets, Philippe Crete, EcoRessources, Quebec, QC</li> </ol>	<p><b>G5B</b>  <b>Energy from Biological Materials</b>                  Chair: Art Lawson, Ontario Ministry of Agriculture, Food and Rural Affairs</p> <ol style="list-style-type: none"> <li>Maximizing Energy Yields for Heating Facilities, Don Hilborn, Ontario Ministry of Agriculture, Food and Rural Affairs, Woodstock, ON</li> <li>Micro-algae from Anaerobic Effluent of Biogas Plants, Amarjeet Bassi, University of Western Ontario, London, ON</li> <li>A Successful Farmer Cooperative, Tom Cox, IGPC, Troy, ON</li> </ol>	<p><b>G5C</b>  <b>Energy Crops</b>                  Chair: Ian McDonald, Ontario Ministry of Agriculture, Food and Rural Affairs</p> <ol style="list-style-type: none"> <li>Pearl Millet as a Potential Renewable Energy Source, Anand Kumar, Agriculture Environmental Renewal Canada Inc, Delhi, ON</li> <li>Sustainable Bioenergy Crop Production – Agronomic Perspectives, Bill Deen, University of Guelph, Guelph, ON</li> <li>Microbes Contributing Energy Crops For Growth in Disturbed Lands (Drought, Salinity and Contaminated Soil) using for Bioenergy, Mohammadali Khalvati, German Research Centre Munich, Munich, DE</li> </ol>

2:30pm - 3:00pm	Refreshments – Exhibition and Posters	
	<b>GTM A</b>	<b>GTM B</b>
3:00 pm – 4:30 pm <b>Concurrent Session #6</b>	<p><b>G6A</b> <b><i>Worms, Flies, and Elephants</i></b> <b>Chair: Jake DeBruyn, Ontario Ministry of Agriculture, Food and Rural Affairs</b></p> <ol style="list-style-type: none"> <li>1. Total Recycling of Raw Manure by Using Fly Larvae, Ivan Milin, EcoSpace Engineering Ltd., Guelph, ON</li> <li>2. Biogas from Zoo Poo, Dave Ireland, Toronto Zoo, Toronto, ON</li> </ol>	<p><b>G6B</b> <b><i>Community Involvement</i></b> <b>Chair: Jim Todd, Ontario Ministry of Agriculture, Food and Rural Affairs</b></p> <ol style="list-style-type: none"> <li>1. Ownership and Financing Options for Rural Community Power Projects, Roberto Garcia, Ontario Sustainable Energy Association, Toronto, ON</li> <li>2. Supporting Community Power Projects - The Role of the Community Power Fund, Meghan MacLennan, Community Power Fund, Toronto, ON</li> <li>3. Development of the Largest Wind Farm in Canada, Gary Matthews, former Mayor, Township of Melancthon, ON</li> </ol>

**Poster Presentations Thursday, March 12, 2009**

Posters:

1. Improved Biogas Production from Solar Greenhouses at Hog Operations on the Canadian Prairies, Joe Ackerman, University of Manitoba, Winnipeg, MB
2. Should the Government Pay to Operate an Anaerobic Bio-digester on Your Farm? Johannes Sturkenboom, Agreenu Solutions Incorporated, Toronto, ON
3. Converting Farm & Urban Wastes into Income, Ron Witherspoon, Interactive Management Group Inc., Regina, SK
4. Cap And Trade, Eric Strople, Eric R Strople Enterprises (ERSENT), Lakeshore, ON
5. Solar Heat - Free Energy From the Sun, Klaus Dohring, Green Sun Rising, Windsor, ON
6. Low-Input Closed Loop Algae Culture as a Lipid Source for Biodiesel Conversion, Anton Lamers, University of Guelph School of Engineering, Guelph, ON
7. Anaerobic Digestion: Effect of Chemical, Thermal and Microwave Pre-Treatments on Agricultural Products, Thierry Ribeiro, Beauvais, France
8. Planning for Success with your AD Project, John Hawkes, HH Angus, Toronto, ON
9. Regression Models of Ultimate Methane Yields of Rice Straw and Husks Wastes, Sorghum and Napiergrass on Chemical Composition, Festus Egbo, ESUTECH, Enugu, NG
10. Effects of Water Dilution and Nutrient Supplements on Biogas Production from Rice Husks Generated from Different Rice Mills in South East Nigeria, Chkwunonso Polycarp Onyia, Animal Kingdom International Farm (Nigeria) Limited, Ebonyi, NG
11. Optimization of Biogas Production From Rice Straw Generated from Various Rice Fields in Southeast Nigeria through Various Pretreatment Steps, Izunna Njoku, Abia State University, Okigwe, NG
12. Biogas Production from Plant Biomass used for Bioremediation of Industrial Waste, Izunna Njoku, Abia State University, Okigwe, NG

**Friday March 13, 2009**

Technology Tours (see [www.gtmconference.ca](http://www.gtmconference.ca) and Program/Tours for details)