

6th Annual
Growing
the Margins:
 Rural Green Energy
 Conference & Exhibition

Monday, March 5, 2012

Monday, March 5, 2012			
	Growing the Margins/Canadian Farm and Food Biogas Conferences Plenary #1 Chair: John McMullen		
8:30am - 10:00am	<ul style="list-style-type: none"> • Hon. Ted McMeekin, Ontario Minister of Agriculture, Food and Rural Affairs (invited) • John Bootle, Renewable Energy Resources, Vermont, USA – Crop Biomass Value Chain; Making it Work • Gregory Schwartz, Kent BioEnergy Corporation, Cal, USA – Where is Algae Today and Where is it Going? • Colin Andersen, CEO, Ontario Power Authority (invited) 		
10:00am - 10:30am	Refreshments – Exhibition and Student Posters Open		
	GTM C		
	GTM D		
10:30am – 12:00 pm Concurrent Session #1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; background-color: #92d050; vertical-align: top;"> G1C Biomass Conversion Technologies Update 1. Assessing Alternative Options for Energy Cost Reduction in Greenhouse Industries, Prabahar Ravichandran, Nova Scotia Agricultural College, Truro, NS 2. Pre-treatment of Biomass with Hot Water Extraction to Add Product Value, Thomas Amidon, Applied Biorefinery Sciences, Syracuse, NY, US 3. Farm Experiences with Biomass Conversion Technologies, Don Nott, Nott Farms, Clinton, ON </td> <td style="width: 50%; background-color: #92d050; vertical-align: top;"> G1D Solar Rooftop Systems 1. Rooftop Photovoltaic and Fire Safety, Dan McDonald, Ontario Ministry of Agriculture, Food & Rural Affairs, London, ON 2. Solar Friendly Barns and Buildings, Klaus Dohring, Green Sun Rising Inc, Windsor, ON 3. Kilworth/Komoka Arena - Rooftop Community Solar Project – Lessons for Success, Eric Kalmbach, NorthGrid Solar, Woodbridge, ON </td> </tr> </table>	G1C Biomass Conversion Technologies Update 1. Assessing Alternative Options for Energy Cost Reduction in Greenhouse Industries, Prabahar Ravichandran, Nova Scotia Agricultural College, Truro, NS 2. Pre-treatment of Biomass with Hot Water Extraction to Add Product Value, Thomas Amidon, Applied Biorefinery Sciences, Syracuse, NY, US 3. Farm Experiences with Biomass Conversion Technologies, Don Nott, Nott Farms, Clinton, ON	G1D Solar Rooftop Systems 1. Rooftop Photovoltaic and Fire Safety, Dan McDonald, Ontario Ministry of Agriculture, Food & Rural Affairs, London, ON 2. Solar Friendly Barns and Buildings, Klaus Dohring, Green Sun Rising Inc, Windsor, ON 3. Kilworth/Komoka Arena - Rooftop Community Solar Project – Lessons for Success, Eric Kalmbach, NorthGrid Solar, Woodbridge, ON
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12:00pm – 1:30pm	Lunch		
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	GTM D		
1:30pm – 3:00pm Concurrent Session #2:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; background-color: #92d050; vertical-align: top;"> G2C Densified Biomass 1. Biomass Densification Project - Concept to Reality, Ian Moncrieff, Canadian Biofuel Inc., Springford, ON 2. Economic and Practical Considerations for Crop Biomass, John Bootle, Renewable Energy Resources, Bennington, VT, US 3. Making it Work: Biomass Densification, Scott Abercrombie, Gildale Farms, St. Mary's, ON </td> <td style="width: 50%; background-color: #92d050; vertical-align: top;"> G2D New FIT Program - Implications for Solar 1. New FIT Program, Ontario Power Authority (TBC) 2. Environmental Approval of PV systems, Ontario Ministry of Environment (TBC) 3. What Communities and Local Owners Need to Know to Make their Renewable Energy Project a Success, Harry French, Ontario Sustainable Energy Association, Toronto, ON </td> </tr> </table>	G2C Densified Biomass 1. Biomass Densification Project - Concept to Reality, Ian Moncrieff, Canadian Biofuel Inc., Springford, ON 2. Economic and Practical Considerations for Crop Biomass, John Bootle, Renewable Energy Resources, Bennington, VT, US 3. Making it Work: Biomass Densification, Scott Abercrombie, Gildale Farms, St. Mary's, ON	G2D New FIT Program - Implications for Solar 1. New FIT Program, Ontario Power Authority (TBC) 2. Environmental Approval of PV systems, Ontario Ministry of Environment (TBC) 3. What Communities and Local Owners Need to Know to Make their Renewable Energy Project a Success, Harry French, Ontario Sustainable Energy Association, Toronto, ON
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3:00pm – 3:30pm	Refreshments – Exhibition and Student Posters		

	GTM C	GTM D
<p>3:30pm – 5:00pm</p> <p>Concurrent Session #3</p>	<p>G3C <i>Biomass Production and Sustainability</i></p> <p>1. Pathfinding the Agronomics of Agricultural Biomass in Ontario, Nick Betts, Ontario Soil and Crop Improvement Association, Guelph, ON</p> <p>2. Optimization of the Economic Potential of Jerusalem Artichoke as a Feedstock for the Production of Biofuels, Nick Ruzich, UWO and CENNATEK Bioanalytical Services Inc., Sarnia, ON</p> <p>3. Ontario Biomass Research Achieving Results, Ashraf Tubeileh, University of Guelph, Kemptville Campus, Kemptville, ON</p>	<p>G3D <i>New Projects and the Investment Climate</i></p> <p>1. Jason Moretti, Alpenglow (TBC)</p> <p>2. John Kennedy, BioEnterprise (TBC)</p> <p>3. Farm Credit Canada (TBC)</p>
<p>5:00 – 6:30pm</p>	<p>Reception (cash bar)</p> <p>Student Poster Competition</p>	
<p>6:30pm-8:30pm</p>	<p>Banquet</p> <p>Guest Speaker: Clare Riepma, Biogas Adventures in Africa</p>	

Tuesday, March 6, 2012

**Growing the Margins/Canadian Farm and Food Biogas Conferences
Plenary #2**

Chair: John McMullen

8:30am –
10:00am

- Hon. Chris Bentley, Ontario Minister of Energy (invited)
- Don Harfield, Alberta Innovates Technology Futures, Alta – Biomass Lessons Learned in Other Sectors & Vision to Move Ag Biomass Forward
- Norma McDonald, Vice Chair, American Biogas Council, Ohio, USA – Farm-based Renewable Natural Gas Production: Considerations for Implementation

10:00am –
10:30am

Refreshments – Exhibition and Student Posters

GTM C

GTM D

10:30 am –
12:00 pm

**Concurrent
Session #4**

G4C

Making a Biomass Combustion Product

1. Harvesting Technology and Approaches - Getting a Good Product Off the Field, Ian McDonald, Ontario Ministry of Agriculture, Food and Rural Affairs, Guelph, ON
2. Pellet Standards for Agricultural Biomass, Staffan Melin, University of British Columbia, Vancouver, BC
3. Nutrient Extraction from Agricultural Biomass and Recycling, Amin Reza Rajabzadeh, CENNATEK, Sarnia, ON

G4D

Algae – Blooming Potential

1. Use of Food Waste and Anaerobic Digester Effluent for Commercial-Scale Microalgae Production, Gregory Schwartz, Kent BioEnergy Corporation, San Diego, Cal, USA
2. Pond Biofuels Algae Pilot Project, Christopher Cory, St. Mary's Cement (TBC)
3. Microalgae Growth on Farm Biogas Effluents: Challenges and Scale-up Potential, Amarjeet Bassi, University of Western Ontario, London, ON

12:00pm –
1:00pm

Lunch

GTM C

GTM D

1:00pm –
2:30pm

**Concurrent
Session #5**

G5C

Life Cycle Assessment

1. A GHG Life Cycle Analysis of Agricultural Feedstocks for Green Energy Generation Bill Deen, Plant Agriculture Department, University of Guelph, Guelph, ON
2. A Life Cycle Perspective on the Sustainability of Willow Biomass for Bioenergy, Goretty Dias, Faculty of Environment, University of Waterloo, Waterloo, ON
3. Biomass and Energy: Moving to the Future, Warren Mabee, Queen`s University, Kingston, ON

G5D

Bioproducts – Additional Value

1. A Process for Manufacturing Fibrous and Particulate Fillers from Lignocellulosic Biomass, Jim Kozlowski, Omtec Inc., Ridgetown, ON
2. Making Ag Biomass Fuels Profitable, Dean Tiessen, (TBC)
3. Bio-Bins Are On the Shelf!, Atul Bali, Interface Management, Markham, ON

2:30pm -
3:00pm

Refreshments – Exhibition and Posters

	GTM C	GTM D
<p>3:00 pm – 4:30 pm</p> <p>Concurrent Session #6</p>	<p>G6C <i>Biomass Value Chain</i></p> <ol style="list-style-type: none"> 1. Production Economics Comparison of Purpose-Grown Biomass and Ontario Major Crops, John Kelly, Erie Innovation and Commercialization, Simcoe, ON 2. Agricultural Biomass for Heat and Power – Ontario Case, Aung Oo, The UWO Research Park, Sarnia-Lambton, Sarnia, ON 3. Integrated Biomass Supply Analysis and Logistics (IBSAL) Model to Understand the Biomass Value Chain, Shahab Sokhansanj, University of British Columbia, Vancouver, BC 	<p>G6D <i>Blended/Combination Systems</i></p> <ol style="list-style-type: none"> 1. Use of Biodiesel Co-Products and Novel Feedstocks in Renewable Energy Applications, Rob Nicol, University of Guelph, Ridgetown, ON 2. Economic Analysis of Grid-Connected Wind-Biogas Hybrid Energy Production by Site, and Production Capacity, Muhammad Mudasser, Nova Scotia Agricultural College, Truro, NS 3. Maximizing Use of Rural Infrastructure for Green Energy and Co-Benefit Production, Donald Hilborn, Ontario Ministry of Agriculture, Food and Rural Affairs, Woodstock, ON