



## Biomass to Fuel the Bioeconomy Workshop

Biomass Canada Cluster, BioFuelNet Canada  
In collaboration with the Wood Pellet Association of Canada

**Monday September 23, 2019**

**Lady Elgin Room, Lord Elgin Hotel, Ottawa**

### Overall Objectives of Workshop

To examine the results of the Biomass Cluster research efforts to date, with a view to understanding how the results, and Biomass Cluster collective effort, are serving to develop production of biomass and access to waste or other sources of available biomass, to provide a key underpinning to the developing sustainable Canadian bioeconomy.

7:30 – 8:30	<b>Registration and breakfast</b>
8:30 – 8:45	<b>Welcome to the joint meeting of the Wood Pellet Association of Canada and Biomass Canada</b>  Mr. Gordon Murray, Executive Director WPAC
8:45 – 9:00	<b>Introduction to Biomass Canada Cluster</b>  Dr. Don Smith (CEO BioFuelNet) and Lynne Guerrette (Director, Industry Development Division, AAFC)
<b>Session #1: Energy crops as biomass for the bioeconomy</b>	
9:00 – 9:20	<b>Develop a Low-Cost and High Production System for Sorghum Biomass on Marginal Lands</b>  Kevin Vessey, St-Mary's University
9:20 – 9:40	<b>Development of Biologicals as Low Input, Sustainable Production Inputs for Fuel and Residue/Food Production</b>  Dr. Don Smith, McGill University
9:40 – 10:00	<b>Purpose-Grown Biomass Crops: Efficient Production, Yield Modelling and Real-world Verification</b>  Dr. Kevin Vessey, St Mary's University
10:00 – 10:15	<b>Health Break and Refreshments</b>
<b>Session #2: Waste as biomass for the bioeconomy</b>	
10:15 – 10:35	<b>Zero-Waste Process for Conversion of Wet Greenhouse Wastes and Agro-Forestry Residues into Recycled Water/Bioenergy/High-value Bioproducts</b>  Dr. Charles Xu, Western University



10:35 – 10:55	<b>Valorization of Agricultural and Food Wastes: A Closed-Loop Circular Economy Concept to Address Climate Change, Biogas Production, Wastewater Management, and Soil Health</b> Dr. Animesh Dutta, University of Guelph
10:55 – 11:15	<b>Application of Thermo-chemical and Hydro-thermal Pre-treatments in Production of Fuel Pellets Using Agricultural Wastes</b> Dr. Ajay Dalai, University of Saskatchewan
<b>Session #3: Biomass to fuel the bioeconomy</b>	
11:15 – 11:35	<b>Biomass Feedstock for Food and Energy Security in the North: Solutions to Technical Issues, Economic Feasibility and Environmental Sustainability</b> Dr. Edmund Mupondwa, AAFC
11:35 – 11:55	<b>Implementation of a Regional Biomass Depot for the Handling, Conditioning and Pre-treatment of Agricultural Crop Residues for Further Biorefining: Centre-du-Québec Region Case</b> Dr. Simon Barnabe, Université du Québec à Trois-Rivières
11:55 – 13:00	<b>Networking Lunch</b>
13:00 – 13:20	<b>Development of logistics, pretreatment and commercialization of agri-pellets</b> Dr. Shahab Sokhansanj, University of British Columbia
13:20 – 13:40	<b>Biochar Production from Canadian Lignocellulosic Biomass and Application for Carbon Sequestration, Soil Improvement and Crop Productivity</b> Dr. Ajay Dalai, University of Saskatchewan
13:40 – 14:00	<b>Development of national and international standards for biomass handling</b> Dr. Fahimeh Yazdan Panah, Wood Pellets Association of Canada
14:00 – 14:15	<b>Health Break and Refreshments</b>
14:15 – 15:40	<b>Biomass Cluster students/researchers presentations</b>
15:40 – 16:00	<b>Biomass Cluster: Overview of Science Coordination &amp; Knowledge Translation</b> Dr. Xiaomin Zhou, BioFuelNet Canada
16:00 – 16:50	<b>Open discussion</b> Peter Voldeng, Nulife GreenTech Ltd.
16:50 – 17:00	<b>Close remarks</b> Ranjana Sharma, Director of the Biomass Cluster, AAFC
18:00 – 20:00	<b>Pellet Party: Celebrating 152 Years of Sustainable Energy in Canada</b> Mill Street Brewery with live entertainment by Cassie and Maggie. “Nova Scotian sisters Cassie & Maggie are among the top musical acts in demand on the Irish/American/Canadian scene”