

# Bioeconomy Trade Mission to Netherlands and Sweden

## Canadian Delegation Profiles



Organized by:



### Overview

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The following document provides descriptions and contact information for the Canadian Delegates participating in our Bioeconomy Trade Mission to Amsterdam and Sweden.

**Dates:** April 1-5, 2019

**Locations:** Amsterdam, Netherlands – World Bio Markets 2019 (April 1-3)  
Stockholm, Sweden – Seminars and Site Visits (April 4-5)

For further details on the Canadian Delegation please contact Francis Gallo at [francisg@biomassnorth.org](mailto:francisg@biomassnorth.org)

## Head of Delegation



Biomass North Development Centre

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### Description

As a sector association focused on the growth and sustainability of the Canadian bioeconomy, Biomass North builds strategic alliances between all members of the value chain - from small municipalities to large industry and all points in between. By performing cutting edge market and technical research, through knowledge transfer and implementing best practices, and by driving innovation in new products and business models, Biomass North aspires to make Canada a global leader in the emerging bioeconomy.

The Biomass North sector association is a progressive network of municipalities, First Nations, SME's, industry, academia and various organizations with common goals and interests in the Canadian bioeconomy. We offer a variety of services to support your projects and goals, including education and advocacy, technical and market research, strategy development and implementation, consulting services, delivering workshops and events, organizing tours and trade missions, and more.

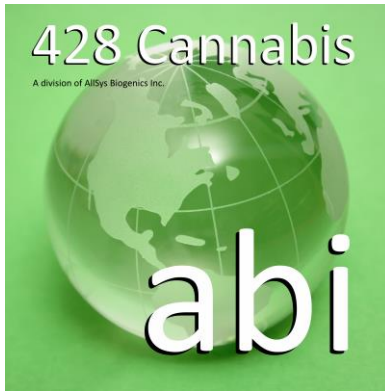
### Mission Objectives

Identify international partners to:

- Develop inbound/outbound missions to/from Canada
- Recruit for our Biomass North Forum 2019, September 17-19 in Ottawa, Canada
- Connect with Canadian businesses and organizations to develop bioenergy projects and commercialize advanced bioproducts
- Broker sales of wood pellets
- Develop licensing agreements with Canadian companies

Build relationships with European biomass associations to:

- Share best practices in policy and regulatory reform
- Build strong trade relationships
- Leverage know-how for provincial and federal bioeconomy strategies
- Strengthen our membership network



## AllSys Biogenics Inc

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## Description

Developer of commercial and demonstration projects in sustainable development, including, solar and biomass renewable energy and aquaculture. Our newest group, “428 Cannabis” specializes in all things related to the cultivation and processing of cannabis and related products, such as: hemp, hemp fibre, hemp composites, as well as regulated products such as THC and CBD.

There are many possible products available from cannabis. We can provide white label, organic, or First Nation branded products in hemp or regulated products, such as CBD and THC. We are interested in discussing with groups in Europe to bring our products to European markets, especially for hemp/wood composites such as packaging materials and fuel pellets. There is growing demand for wood pellets in Europe, but only so many forests as supply. Blending 20% hemp with 80% wood into a fuel pellet makes more biomass available to consumers and should benefit the entire biomass industry.

## Mission Objectives

To meet with groups from Europe who are interested in importing / distributing our cannabis (hemp, CBD, THC) based products in the European market. We can provide raw material, partial processed, or white labeled finished good as needed.



Centre for Research and Innovation in the  
Bio-Economy (CRIBE)

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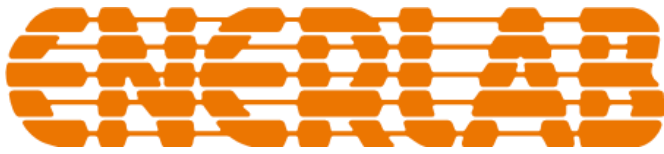
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## Description

The Centre for Research and Innovation in the Bioeconomy (CRIBE) is Ontario's leading innovation to commercialization organization supporting the use of forest biomass. An independent, not-for-profit corporation, CRIBE drives the development of competitive and sustainable bio-economy industries within Ontario. CRIBE develops partnerships with entrepreneurs, industry, educational institutions and research organizations with the specific purpose of turning ideas and research into commercial realities and economic development opportunities. CRIBE has invested over \$27 million since 2009 to support projects in the chemicals, composites, energy and solid wood product sectors.

## Mission Objectives

- Understand the current state of market and value chain development of bio-based products, with a specific focus on end user interest and adoption;
- Identify product platforms or value-chains with short to medium term market opportunities and identify major technology providers or companies participating in this field(s);
- Connect with technology providers or producers looking to expand or pursue new production capacity;
- Gain a better understanding of industry/research collaboration within the European/Nordic context;



Enerlab 2000 Inc.

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## Description

Enerlab 2000 Inc was created in 1982. This Small and Medium-Sized Firms is a subsidiary of Gestion Odusseia Inc. Mr. Langlois is the founder president and the only shareholder. Enerlab started its activities as a consultant in energy conservation and infra-red thermography. In 1984, following a technology transfer agreement with Solvay, it started formulating polyurethane foams. In 1992, it began producing polyisocyanurate rigid foam insulation panels

As a manufacturer of thermal insulation products, Enerlab is specialized in formulation and production of high-performance polyurethanes for a variety of applications. The main products are polyisocyanurate insulating rigid boards, structural insulated panels and polyurethane foam system. The major customers are building contractors, building material distributors, in-plant building manufacturers, etc.

## Mission Objectives

ENERLAB'S ISO-LIGNIN® PROJECT - With the support of the Industrial Research Assistance Program (IRAP) of the National Research Council of Canada (NRCC), and the Programme d'appui à l'innovation du Ministère de l'Économie, de l'Innovation et des Exportations du Québec (MEIE), Enerlab has initiated an extensive R&D program for the use of renewable bioproducts, not related to the food chain, for the production of polyurethane foam products. Enerlab has developed a new process for incorporating up to 25% of lignin in polyurethanes. This innovative new technology called ISO-Lignin® is patented in the USA (2017), Canada (2017), Europe EU (2018) and China (2018). This technology enables the use of preconditioned lignin, without chemical modification, in large quantities by direct addition to isocyanate.

With the support of NRCan IFIT program and Quebec Ministry of Forest, Enerlab had proceeded to the industrialization of the process. New equipment has been installed to produce 4th generation foam with a blowing agent (HFO), on-line addition of lignin and finally SIP production line. This technological breakthrough will be beneficial for the pulp and paper industry as it opens new applications for lignin. The Iso-Lignin® technology can be used in a wide variety of polyurethane products, from very low-density foams to high performance composite materials. For rigid polyurethane products only (in construction and transportation sectors) the use of the ISO-Lignin® technology represents around 200,000 tons a year of lignin in North America only.

Enerlab is seeking partners or licensees.



## InnoTech Alberta

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## Description

InnoTech Alberta Inc (InnoTech), a wholly owned subsidiary of Alberta Innovates, was established to assist Alberta Innovates in carrying out its mandate of supporting and accelerating research, innovation and entrepreneurship. InnoTech's primary focus will be to facilitate the conversion of applied research to economic, social and environmental benefits for Alberta.

Working with Alberta Innovates, InnoTech links basic research with commercial outcomes in accordance with the Government of Alberta's strategic priorities in research and innovation (R&I) space. InnoTech's principal R&I role is to help develop new products, processes and commercial opportunities for industry clients. This is achieved by operating laboratories, performing applied research and development, and delivering laboratory services in key areas of strength, in multiple locations within the province for government and industry clients.

InnoTech Alberta offers a diversified range of scientific, engineering and technological research and testing capabilities and facilities to support technology scale-up in energy, environment, agriculture and forestry sectors. Our focus is to de-risk innovation, accelerate technology adoption, and provide expert advice, technical information and scientific infrastructure to meet the immediate and long-term technical needs of the private and public sectors.

## Mission Objectives

- Promote InnoTech Alberta and Alberta Innovates as well recognized champions in catalyzing research and innovation in Alberta's diverse entrepreneurial ecosystem at an international platform
- Demonstrate InnoTech's operational capabilities and expertise in industrial bio-products development and commercialization to an international audience
- Foster collaboration between InnoTech applied research experts and their equivalents at the ECN (Energy Research Centre of the Netherlands), RISE (RISE RESEARCH INSTITUTES OF SWEDEN) and EERA (European Energy Research Alliance)
- Expand InnoTech's contract services into the bio-industrial product sector of Netherlands and Sweden and reciprocally derive learning from their research and innovation successes for adoption into Alberta



## Lakehead University

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## Description

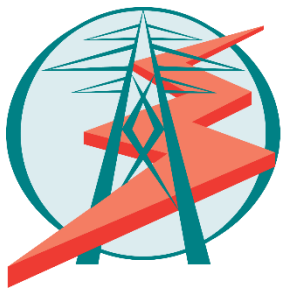
Lakehead University is the proud host to nine Canada Research Chairs and revolutionary facilities such as our world-renowned Biorefining Research Institute, Wood Science Testing Centre and Green Processes Research Centre. The Economic Development and Innovation office (EDI) is an intellectual property resource for faculty, staff, and students, and an important priority for Lakehead University. The EDI office strives to encourage, support, and enhance the commercialization of intellectual property and assist its researchers in transferring knowledge and technology to those outside the University community. Critical to these goals are the development and maintenance of research and business partnerships, which include industry, government, and other Universities.

To further related initiatives, EDI at Lakehead seeks to:

- Provide services related to Industry-sponsored research and partnerships; locating industry partners for Lakehead researchers; and providing a point of contact for industry to access University resources
- Serving as a liaison between industry, the local community, and the University
- Assisting with university-industry-government collaborative programs
- Supporting the creation and development of start-up knowledge-based businesses

## Mission Objectives

- Meet industry representatives in Sweden and the Netherlands within the bio-economy
- Learn more about the bioeconomy in both countries, and look for synergies with Lakehead University expertise
- Build and enhance relationships with representatives in both countries to explore potential partnerships
- Share information with industry representatives regarding Lakehead University, particularly the Biorefining Research Institute, Green Processes Research Centre, Wood Science Testing Centre and other bioeconomy initiatives.



# POWER WORKERS' UNION



## Power Workers' Union

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## Description

The Power Workers' Union (PWU) has been representing the highly skilled people who work in Ontario's electricity sector since 1945. Presently representing about 17,000 members, the PWU has worked hard to build its reputation in Ontario as a credible source of knowledge for its members, and in advocating for better energy choices for all Ontarians. Learn more at [www.pwu.ca](http://www.pwu.ca) and follow us on Facebook, Twitter, Instagram and YouTube.

## Mission Objectives

The Power Worker's Union has been a long-time advocate of biomass electricity generation in Ontario. The PWU, with other stakeholders, helped secure the conversion of two coal stations to renewable biomass: the 200 MW Atikokan Generating Station (GS), North America's largest conversion; and, the 150 MW Thunder Bay GS, the world's first to use advanced wood pellets. The PWU wants to ensure the continued operation of both stations and sustain the biomass cluster around them.