



The Canadian Institute's

Biofuels Symposium

Capitalizing on opportunities in bioenergy from a variety of feedstocks

Gain a thorough understanding of all the key issues currently affecting biofuel production in Canada, including:

- Current **government policies and funding programs** for the biofuel industry
- Critical **information** about **feedstocks** in Canada and **impacts on biofuel production**
- The **impact of Copenhagen – COP15** on the **Canadian biofuel industry**
- Emerging **clean and cost effective technologies**
- **Market outlook** of the **cellulosic biofuel industry in North America and Europe**
- Managing **uncertainty around carbon policies** and how this affects biofuels in Canada

And much more!

PLUS: Don't miss the post-conference workshop on April 23, 2010
The Biofuels Industry and HR Support

Take away valuable information from leading experts and key industry specialists from:

Agriculture and Agri-Food Canada
BioTalent Canada
Canadian Canola Growers Association
Canadian Renewable Fuels Association
Cantus Bio Power Ltd.
Deloitte
Enerkem
Forest Products Association of Canada
FP Innovations
Government of Alberta
IEA Bioenergy
Iogen Corporation
Natural Resources Canada
PricewaterhouseCoopers
Pyramid Farms Ltd
Sustainable Development Technology Canada (SDTC)
University of British Columbia
University of Guelph
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Willis Climate Group
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Peace USA, Environmental Stewardship Strategies and Solutions
Western Biomass Power Corporation

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Opportunity for biofuel producers is at its all time peak. Canada's current biofuel supply is expected to fall short when the first federal mandate of 5 per cent renewable content in fuel takes effect in 2010

This interactive symposium will not only address the most current policies and regulations impacting biofuel producers, but will also delve into the more practical issues, such as ways to secure funding, assessing the supply of feedstocks and analyzing the commercial viability of second and third generation biofuels — issues that are expected to affect the industry's long-term economic standing in Canada and abroad

The **Canadian Institute's Biofuels Symposium** is a must-attend event for all those who are looking to advance their biofuel operations. Don't miss this opportunity to:

- Understand the impact of the Renewable Fuel Standard on the biofuel industry
- Analyze next generation technologies such as thermochemical conversion and pyrolysis and how to choose the best one
- Analyze the impact of Copenhagen – COP 15 on the Canadian biofuel industry
- Take advantage of federal and provincial funding programs for biofuel producers
- Hear about the role of Canada's forestry industry in biofuel production
- Realize the commercial benefits of feedstocks such as miscanthus, wood, canola and algae
- Learn about the impacts of Agriculture and Agri-Food Canada's *Sustainable Cropping System Platforms for Biodiesel Feedstock Quantity and Quality network* (SBQQ) on industry

Plus, take advantage of our post-conference workshop, **The Biofuels Industry and HR Support** on April 23, 2010.

Register now by calling 1-877-927-7936 or online at www.CanadianInstitute.com/Biofuels. We look forward to seeing you in April!

WHO YOU WILL MEET

Biofuel Producers	Energy-Focused Industry Associations
CEO's/VP's of Oil and Gas Companies	Regional Power Authorities
Regional, Provincial and Federal Departments of Environment and Energy	Chief Financial Officers
Scientists	Municipal Waste Managers
Biofuel Technology Providers	Venture Capitalists
Environmental Lawyers	Private Equity Firms
Energy Consultants and Engineers	Biofuel Traders
	Research Institutions
	Farmers
	Entrepreneurs

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Maximize your organization's visibility in front of key decision-makers in your target market. For more information, contact Director Business Development, **Daniel Gellman** at 416-927-0718 ext. 389, toll-free 1-877-927-0718 ext. 389 or by email at d.gellman@CanadianInstitute.com

DISTINGUISHED FACULTY:

Emmanuel Ackom, PhD
Research Associate
University of British Columbia
Task Coordinator, IEA Bioenergy

Catherine Cobden
VP Environment and Regulation
Forest Products Association of Canada

Neil Harker
Research Scientist
Agriculture & Agri-Food Canada

John Howe
VP Public Affairs
Verenium Corporation

Jennifer Jabs
Senior Policy Advisor, Bioenergy
Government of Alberta

Dino Mili
VP Business Development
Enerkem

Guy Ouimet
Senior Adviser, NextGen Biofuels Fund,
Sustainable Development Technology Canada (SDTC)

Jeff Paquin
Co-founder and Manager of Business Development
Western Biomass Power Corporation

Jeff Passmore
Executive Vice President, Public Affairs
Iogen Corporation

Dr. Vikram M Pattarkine
Former CTO, Origin Oil Inc.
Principal (Partner)
PEACE USA, Environmental Stewardship
Strategies and Solutions
Adjunct Professor, Civil and Environment
Engineering, University of Missouri

Alan Potter
VP Strategic Technologies and Initiatives
FP Innovations

Gordon Quaiattini
President
Canadian Renewable Fuels Association

Colette Rivet
Executive Director, BioTalent Canada

Art Schaafsma, PhD
Professor, Campus Director
Ridgetown Campus, University of Guelph

Leanne Sereda
Partner, Energy Services
PricewaterhouseCoopers

Mark Stumborg
Head, Applied Science
Agriculture and Agri-Food Canada

Derek Sidders
Regional Coordinator
Canadian Wood Fibre Centre
Natural Resources Canada

Dean W. Tiessen
Partner
Cantus Bio Power Ltd & Pyramid Farms Ltd

Errick Willis
Principal, Willis Climate Group
Senior Adviser, Deloitte

Rick White
General Manager
Canadian Canola Growers Association

John Willms
Partner, Certified Law Specialist
Willms and Shier Environmental Lawyers LLP

Register at 1-877-927-7936 or www.CanadianInstitute.com/Biofuels

DAY 1: WEDNESDAY, APRIL 21, 2010

- 8:00 **Registration and Coffee Served**
- 8:45 **Opening Remarks from the Conference Chair**
- 9:00 **Assessing the State of Feedstocks in Canada**

Neil Harker
Research Scientist
Agriculture & Agri-Food Canada

Mark Stumborg
Head, Applied Science
Agriculture and Agri-Food Canada

Derek Sidders
Regional Coordinator, Canadian Wood Fibre Centre
Natural Resources Canada

The quality, quantity and cost of feedstocks are critical factors affecting the long-term viability of the biofuels industry in Canada and abroad

- Assessing the state of feedstock supply in Canada
- What measures have been taken to build an adequate feedstock supply chain?
- What challenges must be overcome to attract national and international supplier commitment to the biofuels industry?
- Examining the unstable pricing of feedstocks and its impact on the supply chain
- What role, if any, is the government playing to ensure there is an adequate supply of raw materials?
- What key steps must be taken in the years to come to ensure there is an adequate supply of feedstock?
- How have other countries and governments dealt with the issue of feedstock availability?
- Overview of Agriculture and Agri-Food Canada's *Sustainable Cropping System Platforms for Biodiesel Feedstock Quantity and Quality* (SBQQ) network

- 10:15 **Understanding the Impact of the Renewable Fuels Standard on the Canadian Biofuel Industry**

Errick Willis
Principal, Willis Climate Group, Senior Adviser
Deloitte

- How will Canada achieve these mandates?
- Comparing Canada's target to Europe's
- How may this affect future biofuel production in Canada?
- Analyzing the impact of Copenhagen - COP15 on the Canadian biofuels industry

- 11:00 **Networking Coffee Break**

- 11:15 **Examining the Latest Technologies for Biofuel Production**

Alan Potter
VP Strategic Technologies and Initiatives
FP Innovations

- Analyzing commercial applications of various technologies using different feedstocks
- Analyzing various biofuel technologies in terms of energy maximization and cost effectiveness

- Examining various technologies in terms of energy efficiency – amount of energy required to produce the raw material vs the amount of energy yielded at the end of the procedure
- Highlighting other market leading technologies and the pros and cons of each
- Evaluating next generation technologies for biofuels such as thermochemical conversion, bio-oil, renewable, pyrolysis, and biochemical processing

- 12:00 **Understanding Current Government Regulations Impacting Biofuel Production in Canada**

John Willms
Partner, Certified Law Specialist
Willms and Shier Environmental Lawyers LLP

- Analyzing the latest API650 regulatory changes and its impact on the biofuels industry
- Update on the Renewable Fuel Standard
- Examining the latest standards issued by the Canadian General Standards Board (CGSB)
- Amendments to the *Environment Protection Act* and its effects on biofuel production in Canada
- Discussing the issue of uncertainty around carbon policies and its effects on the biofuels industry in Canada

Reviewing Government of Alberta's Regulations for Biofuel Producers

Jennifer Jabs
Senior Policy Advisor - Bioenergy
Government of Alberta

- Highlighting Alberta's Renewable Fuels Standard (RFS)
- Discussing Alberta's upcoming mandate for biofuel blending
- Analyzing compliance and flexibility provisions
- Understanding the Renewable Fuels GHG Emissions Standard and its implications on the biofuel industry

- 1:00 **Networking Luncheon for Speakers and Delegates**

- 2:15 **Transforming the Forestry Industry – Realizing the Bioenergy Opportunity**

Catherine Cobden
VP Environment and Regulation
Forest Products Association of Canada

- Profile FPAC's analysis on Canada's forestry industry and bioenergy/biofuel production
- Understanding the opportunities in the forestry sector in Canada
- Highlighting the economical, social and environmental benefits of using wood for bioenergy production
- What impact will using wood as a feedstock have on Canada's forestry industry and its global economic standing?

- 3:00 **Networking Coffee Break**

- 3:15 **Algae-Based Biofuels: Could Algae Prove to be the Best Biofuel?**

Dr. Vikram M Pattarkine
Former CTO, Origin Oil Inc., Principal (Partner)
PEACE USA,
Environmental Stewardship Strategies and Solutions
Adjunct Professor, Civil and Environmental Engineering,
University of Missouri

- Update on international research and development in the area of algae-based biofuels
- Examining the advantages and disadvantages of algae-based biofuels
- What is the biggest challenge in producing commercial, algae-based biofuel plants?
- How does algae compare to other feedstocks in terms of sustainability and carbon credit emissions?
- Analyzing the various technologies for algae-based biofuels in terms of cost, environmental emissions and energy maximization
- Which technologies look promising for commercialization of algae-based biofuels?

4:00 Analyzing the Challenges in the Canadian Biofuels Industry

Gordon Quaiattini

President
Canadian Renewable Fuels Association

Art Schaafsma, PhD

Professor, Campus Director
Ridgetown Campus, University of Guelph

- What are the economic barriers to the increasing use of bioenergy in Canada?
- Discussing ways to grow the bioeconomy in Canada
- What are the drivers for increasing supply and demand for bioenergy?
- Assessing supply chain infrastructure and its affects on biofuel production
- Assessing biofuel production and its implications on the forestry and agricultural industries in Canada
- Understanding the impact of biotechnology, water availability and the effects of climate change on bioenergy production

5:00 Chair's Recap and Conference Adjourns

DAY 2: THURSDAY, APRIL 22, 2010

8:30 Coffee Served

9:00 Opening Remarks from the Conference Chair

9:15 Maximizing ROI through Cutting-Edge Biofuel Technologies

Dino Mili

VP Business Development
Enerkem

Enerkem has developed a unique gasification, sequential gas conditioning and thermo catalysis technology platform, which uses a mix of feedstock including municipal solid waste, forest biomass as well as agricultural feedstock. In addition to its waste-to-biofuels plant in Edmonton, Enerkem is also developing a second generation biofuels facility which will be located in Pontotoc, Mississippi

- Overview of the new waste-to-biofuels production facility
- Analyzing the benefits of the thermo catalysis process and its role in developing alternative fuels from waste
- Studying the economic advantages of thermo catalysis
- Is the thermo-catalytic process a more energy efficient method to convert biomass into biofuels?

- What are the environmental and health benefits of thermo catalysis in comparison to other market leading technologies?
- Ways to incorporate regulatory guidelines into the plans when developing thermo-chemical technology-based plants
- Understanding public perception around waste to biofuels facilities
- How was the public approval process managed?
- Lessons learned from this project

10:00 Examining the Key Elements in Financing a Biofuels Project

Guy Ouimet

Senior Adviser
NextGen Biofuels Fund, Sustainable Development
Technology Canada (SDTC)

Leanne Sereda

Partner
Energy Services, PricewaterhouseCoopers

- Analyzing the key strategies for indentifying and security equity for biofuel projects in a credit starved economy
- Identifying the innovative financing structures available for biofuel producers
- What funding programs, if any are available for biofuel producers in Alberta, BC, Manitoba and Saskatchewan?
- Comparing provincial incentives and assessing which provinces are more favorable in the eyes of investors
- What is the future viability of the biofuels industry in Canada and abroad?
- Discussing the opportunity for next generation biofuels in Canada
- Impact of the global financing shortage on NGB commercialization
- Industry challenges
- Understand the financing structure for all stages of NGB demonstrations with SDTC

11:00 Networking Coffee Break

11:15 Examining the Economic Viability of Canola as a Reliable Feedstock

Rick White

General Manager
Canadian Canola Growers Association

- Overview of Canada's canola industry
- Assessing the benefits of canola as a feedstock for biodiesel
- Implications of canola-based biodiesel production on Canada's agricultural industry and economy
- The future for canola-based biodiesel production in Canada

12:00 Networking Luncheon for Speakers and Delegates

1:15 Is Biofuel the Answer to a More Sustainable Future?

Emmanuel Ackom, PhD

Research Associate, University of British Columbia
Task Coordinator
IEA Bioenergy

- Exploring whether safeguards are in place to lower any negative social and environmental impacts of biofuels

- Analyzing the impact of the biofuel industry on food security in developing and developed countries
- Assessing the concerns of Aboriginal and other community groups around biofuel facilities
- Analyzing the role of water and how it can impact biofuel operations
- Understanding how GHG emissions can impact the biofuel industry (including land use change emissions)

2:00 **Networking Coffee Break**

2:15 **Understanding the Costs and Benefits of Starting a Biofuel Plant**

Jeff Paquin

Co-founder and Manager of Business Development
Western Biomass Power Corporation

- Overview of the proposed plant and the opportunity, including a First Nation perspective in participating
- What are the procedures involved in making this plant commercial, including First Nation matters?
- What factors did the company deem critical before deciding on a technology?
- What are the effects of the economic downturn on this industry?
- Lessons learned

3:00 **Analyzing the Pros and Cons of Using Miscanthus as a Feedstock**

Dean W. Tiessen

Partner

Cantus Bio Power Ltd & Pyramid Farms Ltd.

- Status of global research and development of miscanthus for biofuel production
- Analysis of pricing and availability of miscanthus in Canada
- Examining the feasibility of growing miscanthus in Canada
- Understanding the advantages, challenges and limitations of this feedstock
- Presenting a business case for incorporating miscanthus into Canada's feedstock regimen
- How does miscanthus compare to other feedstocks in terms of cost, energy yield and sustainability?

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- Analyzing the technologies available to convert Miscanthus into biofuels
- Determining whether these technologies are commercial viable, and if so, how to choose the best one

3:45 **Analyzing the State of the Cellulosic Biofuels Industry In North America and Abroad: What Does the Future Hold?**

John Howe

VP Public Affairs

Verenium Corporation

Jeff Passmore

Executive Vice President, Public Affairs

Iogen Corporation

- Analyzing the current government (US, Canada and to a lesser extent, Europe) policies supporting this industry
- What role do cellulosic biofuels play in reducing green house gas emissions (GHG) emissions?
- Analyzing the viability of advanced biofuels such as butanol and the status on advanced yield technologies for conventional cellulosic biofuels in North America
- Will the cellulosic biofuels industry dominate more traditional biofuels produced from food stock?
- Why is commercialization of cellulosic ethanol taking so long?

4:45 **Chair's Recap and Conference Concludes**

POST-CONFERENCE WORKSHOP

April 23, 2010 | 9:00 am – 12:30 pm

The Bioenergy Industry and HR Support

Colette Rivet

Executive Director

BioTalent Canada

Skilled talent and strong HR are key to the success of the biofuels industry in Canada and abroad

Topics will include:

- Addressing the human resources (HR) needs in Canada's biofuels industry, including the latest biofuel specific labour market information data
- Why skilled talent and specialized skills are required to meet market demand, for growth of the industry and next generation technologies
- Discussing the importance of strong HR capacity to recruit and retain talent for Canada's biofuel industry
- Connecting companies with talent and stakeholders
- Addressing the skills gap
- Building HR capacity through practical HR tools to address biofuel industry needs

Sign up early to Reserve your space.

SPECIAL OFFER!

Delegates who register for this event will receive the Renewable Energy & CleanTech Industries Guide courtesy of Contact Canada, a \$199.00 value! (while supplies last)



The Canadian Institute's

Biofuels Symposium

Capitalizing on opportunities in bioenergy from a variety of feedstocks

- ✓ Understand the state of feedstocks in Canada
- ✓ Hear about cost effective and commercially viable technologies for biofuel production
- ✓ Learn about ways to secure funding for biofuel facilities
- ✓ Understand the commercial viability of third-generation and advanced biofuels
- ✓ Network with leading government and industry practitioners in the bioenergy sector

REGISTRATION FORM

To expedite your registration, please mention your Priority Service Code

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STEP 1

CONFERENCE CODE: **427W10-CAL**

YES! Please register the following delegate for the **Biofuels Symposium**

For group discounts please call 1-877-927-7936

FEE PER DELEGATE	Register & Pay by March 24, 2010	Register & Pay after March 24, 2010
<input type="checkbox"/> Conference (on site)	\$1895 + 5% GST = \$1989.75	\$2095 + 5% GST = \$2199.75
<input type="checkbox"/> Conference + Workshop	\$2390 + 5% GST = \$2509.50	\$2590 + 5% GST = \$2719.50
<input type="checkbox"/> Live Webcast (<i>Conference Only</i>)	\$1595 + 5% GST = \$1674.75	
<i>Conference participants will receive a CD-ROM of the conference materials as part of their registration fee.</i>		
<input type="checkbox"/> Please add a copy of the *Conference Proceedings (BINDER) to my order for \$195 + \$21.95 (S&H) + (applicable taxes) *Published and shipped within 4 weeks from conference		
<input type="checkbox"/> I cannot attend but would like information regarding conference materials.		
<input type="checkbox"/> Yes, I would like to reduce the environmental impact of my attendance by contributing \$5.00 to support tire recycling projects in Canada.		

STEP 2

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STEP 3

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I have enclosed my cheque for \$ _____ including GST made payable to **The Canadian Institute** (GST No. 84221 1153 RT0001)

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For information on hotel room availability and reservations, please contact The Carriage House Inn at 403-253-1101. When making your reservation, please ask for "The Canadian Institute's Corporate Rate".

Program Materials

Conference participants will receive a comprehensive set of conference materials prepared by the speakers, as an excellent reference source after the conference. If you have paid and are unable to attend, the conference materials will be shipped to you upon request only. Request must be received within 30 days upon conclusion of the conference.

Payment Policy

Payment must be received in full by the conference date to ensure admittance. All discounts will be applied to the Conference Only fee (excluding add-ons), cannot be combined with any other offer, and must be paid in full at time of order. Group discounts available to individuals employed by the same organization.

Cancellation and Refund Policy

You must notify us by email at least 48 hrs in advance if you wish to send a substitute participant. Delegates may not "share" a pass between multiple attendees without prior authorization. If you are unable to find a substitute, please notify **The Canadian Institute** in writing no later than 10 days prior to the conference date and a credit voucher will be issued to you for the full amount paid. Credit Vouchers are valid for 1 year and are redeemable against any other conference by **The Canadian Institute**. If you prefer, you may request a refund of fees paid less a 25% service charge. No credits or refunds will be given for cancellations received after 10 days prior to the conference date. **The Canadian Institute** reserves the right to cancel any conference it deems necessary and will, in such event, make a full refund of any registration fee, but will not be responsible for airfare, hotel or other costs incurred by registrants. No liability is assumed by **The Canadian Institute** for changes in program date, content, speakers or venue.

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