

EU-CANADA Workshop

Renewable Carbon Sources processing to fuels and chemicals

Brussels, 9-10 July 2015



Workshop Programme



Albert Borschette, Room AB - 2D
Rue Froissart 36
1040 Brussels

July 9th, 2015

09:00 - 09:30 Welcome Coffee & Registration

09:30 – 09:50 Opening Session

Christopher Jones, Deputy Director General, DG Energy

Alan Bowman, Deputy Head of Mission, Mission of Canada to the EU

09:50-10:20 Scope of the Workshop

Andreea Strachinescu, Head of Unit, DG ENER, *"Background, Scope and Objectives of the Workshop"*

Kevin Vessey, BioFuelNet; *"An Introduction to BioFuelNet, a Centre of Excellence Network to advance the Canadian biofuels and bioproducts industry"*

10:20-11:00 Sustainable Feedstock availability in the EU and Canada

Kevin Vessey, St-Mary's University, BioFuelNet - Purpose-grown feedstock Project Leader, *"An Overview of Biomass Feedstocks for Biofuels and Bioproducts in Canada"*

Martin Junginger, Utrecht University & Task 40 IEA Bioenergy, *"Sustainable solid potentials: current and future availability and constraints"*

11:00-11:30 Networking Coffee break

11:30-13:00 Gasification – Reactor design, downstream processing and scaling up

Jean Michel Lavoie, University of Sherbrooke, BioFuelNet – Gasification Project Leader, *"Integration of R&D and HQP training in the field of waste gasification, the CRIEC-B approach"*



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Juergen Karl, ERLANGEN, *"Biomass gasification in Europe – achievements and open challenges"*

Marie-Helene Labrie, ENERKEM, *"Transforming garbage into fuels and chemicals: from R&D to commercialization"*

Ingemar Gunnarsson, Goteborg Energi, *"The GoBiGas project – experiences so far"*

13:00-14:00 Lunch Break

14:00-15:30 Pyrolysis - Reactor design, downstream processing and scaling up

Franco Berruti, Western University, BioFuelNet – Pyrolysis Principal Investigator, *"Advances in Biomass Pyrolysis Technologies for Chemicals and Fuels"*

Wolter Prins, University of Gent, *"From fast pyrolysis oil to transportation fuel; pathways and obstacles"*

Patrice Mangin, BioFuelNet – Pyrolysis Principal Investigator, *"Proposals towards the development of a forest biomass bioenergy/bioeconomy industry sector. The La Tuque project: can regional solutions be exported?"*

René Venendaal, BTG, *"Pyrolysis as a building block for a biobased economy"*

15:30-16:00 Coffee break

16:00-17:00 Panel discussion on R&D Needs & Deployment

Moderator: Jean Michel Lavoie

Panelists: Marie-Helene Labrie, Enerkem
Walter Prins, University of Gent,
Kevin Vessey, BioFuelNet
Juergen Karl, ERLANGEN
Don O'Connor, (S&T)2 Consultants
René Venendaal, BTG

17:00-18:30 Sustainable biochemicals and bioproducts

David Bressler, University of Alberta, BioFuelNet - Emerging conversion technologies Project Leader, *"High temperature pathways to renewable fuel and materials"*

David Chiaramonti, University of Florence, *"Conversion of lignocellulosic and algal biomass into fuels and products"*

Don O'Connor, (S&T)2 Consultants, *"Market Opportunities for Low GHG Bio products"*

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Isabella De Bari, ENEA, *"Biofuels and Biobased products from lignocellulosics through biomass pretreatment and fractionation"*

18:30 Closure of the day

18.30-20.00 Reception offered by the European Commission and the Mission of Canada to the EU

July 10th, 2015

9:00-10:30 Biochemical processing

Jack Saddler, University of British Columbia, BioFuelNet - Bioconversion Project Leader, *"Can we effectively pretreat biomass for conversion to fuels/chemicals without having to remove the lignin component"*

Gunnar Lidén, Lund University, *"Aspects of high solids biochemical processing of biomass"*

Jean Roberge, Éthanol GreenField Québec, *"Varennnes integrated biorefinery – The pathway to second generation biofuels"*

Piero Cavigliasso, Biochemtex, *"The integrated and synergic biorefinery: the optimized use of the "biomass barrel". Biochemtex experience and goals"*

10:30-11:00 Networking Coffee break

11:00-12:30 Aviation Biofuels

Xiaotao Bi, University of British Columbia, BioFuelNet – Gasification Principal Investigator, *"Forest residues to bio-jet fuel conversion in Western Canada: Challenges and Opportunities"*

Angelica Hull, Swedish Biofuels, *"Technical progress towards cost effective aviation biofuels"*

Teresa Ehman, Air Canada, *"Air Canada: Biojet fuel experience and strategy"*

Alexander Zschocke, Lufthansa, *"Aviation Bio kerosene: Market and deployment issues"*

12:30-13:30 Panel discussion on R&D Needs & Deployment

Moderator: David Chiaramonti

Panelists: Jack Saddler, University of British Columbia
Gunnar Lidén, Lund University
Teresa Ehman, Air Canada

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Alexander Zschocke, Lufthansa
Jean Roberge, Éthanol GreenField Québec Inc
Isabella De Bari, ENEA

13:30-13:40 **Closure of the Workshop**

13:40-14:30 **Lunch Break**

14:30-17:00 **Brokerage Event**

During the brokerage event there will be video conference with Canada

- Kyriakos Maniatis, "*Horizon 2020, Relevant Call topics*"
- Jennifer Daubeny, Director, Science, Technology and Innovation, "*Research programmes & International Cooperation*"
- David Chiaramonti & Jean Michel Lavoie, "*EU-Canada Network on " Renewable carbon fuels and products*"
- Kyriakos Maniatis, "*Large scale demonstration projects on advanced biofuels and other ongoing related work*"
- Theodore Goumas (EXERGIA) & Don O'Connor ((S&T)2 Consultants), "*Actual GHG for fossil fuels*"
- Julie Tolmie, Mapping Book, "*Biomap Lite*"
- Matic Legiša, National Institute of Chemistry Ljubljana, "*Progress on fermentative growth of engineered yeast on pentose sugars*"
- Discussion amongst the participants

17.00 **End of Brokerage event**



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