

EU-CANADA Workshop

Renewable Carbon Sources processing to fuels and chemicals

Brussels, 9-10 July 2015



Workshop Draft Programme

Canada

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, Ambassador 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

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



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13:30-13:40 Closure of the Workshop

13:40-14:30 Lunch Break

14:30-17:00 Brokerage Event

- Presentation by the EC on Horizon 2020 & International Cooperation
- Presentation by Canada on research programmes & International Cooperation
- Presentation by David Chiamonti/Jean Michel Lavoie on an eventual EU-Canada R&D Network on "Fuels and products from renewable carbon sources"
- Discussion amongst the participants
- Possibility of bilateral discussions amongst specific groups of participants in view of strengthening cooperation.



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