International Conferences

Green Chemistry - White Biotechnology

(BIO-)Polymers and Ecocircularity:

From Challenges to Opportunities

Université Libre de Bruxelles, 8 May 2019 – Day 1

08:30 WELCOME

09:30 **INTRODUCTION - OPENING WELCOME**
PROF.FRANCOIS RENIERS, PROFESSOR OF CHEMISTRY, UNIVERSITE LIBRE DE BRUXELLES (ULB), GREENWIN VICE-PRESIDENT

09:40 «**FROM IDEAS TO SUCCESSFUL PROJECTS: NEW GREENWIN'S SERVICES »**
MRS. EMILIE ETOUNDI, INTERNATIONAL PROJECTS MANAGER, GREENWIN

Session 1. Building Blocks and Bio-based Materials from CO_2

9:55 **«BIO-BASED AND CO_2-BASED POLYMERS - MARKETS, FRAMEWORKS, HURDLES AND OPPORTUNITIES»**
MR. ACHIM RASCHKA, HEAD OF TECHNOLOGY & MARKETS DEPARTMENT, NOVA INSTITUTE, GERMANY

10:15 **«CO_2 AS A RESOURCE: HOW TO BUILD THE CARBON CAPTURE & UTILISATION (CCU) INDUSTRY IN EUROPE»**
MR. STEFAN GIELIS, EU AFFAIRS MANAGER, CO2 VALUE EUROPE

10:35 «**CATALYSING A CO_2-NEUTRAL SOCIETY»**
PROF. MARK SAEYS, LABORATORY FOR CHEMICAL TECHNOLOGY, GHENT UNIVERSITY

10:55 COFFEE BREAK / EXHIBITION AND POSTERS SESSION

Session 2. Innovative applications

11:25 «**VALORISATION OF AGRO BYPRODUCTS AND WASTE WATERS BY THE EXTRACTION OF HIGH ADDED VALUE MOLECULES FOR INNOVATIVE APPLICATIONS IN VARIOUS INDUSTRIAL SECTORS**»
MR. STEPHANE KOHNEN, PROJECT MANAGER FOOD TECHNOLOGIES - EXTRACTION DEPARTMENT, CELABOR

11:45 «**BIO-SOURCED ORGANIC SEMICONDUCTING MATERIALS BIORG-EL**»
PROF. ROBERTO LAZZARONI, CHEMISTRY, UNIVERSITY OF MONS (UMONS)

12:05 **«POLYBIOSKIN: HIGH PERFORMANCE FUNCTIONAL BIO-BASED POLYMERS FOR SKIN CONTACT PRODUCTS IN BIOMEDICAL, COSMETIC AND SANITARY INDUSTRY»**
DR. SIMONA NERI, PROJECT & INNOVATION MANAGER, IRIS TECHNOLOGY SOLUTION

12:25 «**HIGH-VALUE BIOMATERIALS FROM NATURAL BY-PRODUCTS».**
MR. AMIN SHAVANDI, ASSISTANT PROFESSOR, UNIVERSITE LIBRE DE BRUXELLES (ULB)

12:45 WALKING LUNCH/EXHIBITION AND POSTERS SESSION

Session 3. Policy

13:45 **«BELGIAN PLASTIC INDUSTRY: CHALLENGES»**
DR. OLIVIER VAN VOLDEN, ESSENSCIA POLYMATTERS - ESSENSCIA

14:05 **TRANSITION TOWARDS SUSTAINABLE CHEMISTRY: ACTOR DYNAMICS AND PROSPECTIVE SCENARIOS OF GREEN CHEMISTRY IN BELGIUM»**
MR. YVES MARENNE, SCIENTIFIC DIRECTOR, INSTITUT DE CONSEIL ET D'ETUDES EN DÉVELOPPEMENT DURABLE (ICEDD)

Session 4. End of life cycle/Recycling

14:25 **«PLASTIC WASTE TO PLASTIC VALUE»**
PROF. DR.-ING. LARS M. BLANK, CHAIR OF APPLIED MICROBIOLOGY, IAMB - INSTITUTE OF APPLIED MICROBIOLOGY, ABBT - AACHEN BIOLOGY AND BIOTECHNOLOGY, RWTH AACHEN UNIVERSITY **»**

14:45 **«PEPIT - POLYMERS ECOCIRCULARITY PLATFORM FOR AN INDUSTRIAL TRANSITION»**
MRS. LESLIE DESCAMPS, INNOVATION PROJECT MANAGER, GREENWIN

15:05 «**ROLE OF A VIRGIN POLYMER PRODUCER IN THE RECYCLING OF PLASTICS**»
MR. THIERRY SAUDEMONT, BUSINESS DEVELOPMENT MANAGER RECYCLING, TOTAL REFINING & CHEMICALS

15:25 **«CREATING CIRCULAR ECONOMY IN FOOD PACKAGING**"
MR. CARSTEN LAURIDSEN, SENIOR PROJECT MANAGER, FAERCH PLAST AS

16:00 **NETWORKING COCKTAIL (UNTIL 18:30)**

16:00 **Workshop & Meetings**

16:00 – 18:00 ***WORKSHOP***

- ***PSYCHE INTERREG PROJECT***

  The overall goal of PSYCHE is to produce building blocks (olefins) from plastic waste to be reused by the chemical industry. Specifically, the project aims at developing and demonstrating an innovative technology to gasify various plastic wastes fluxes. The syngas produced will then be converted in building blocks through Fischer-Tropsch reaction. The technical feasibility, economic viability and ecological impact (LCA) of the conversion process will be assessed.

  This FWVL Interreg project gathered complementary expertise regarding chemical recycling of plastic wastes for a successful transfer to industrial in the region.

16:00 – 18:30 ***BILATERAL MEETINGS***
PRE-ARRANGED (15 MIN/MEETING)

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Université Libre de Bruxelles, 9 May 2019 – Day 2

08:30 **WELCOME**

09:30 **INTRODUCTION - OPENING WELCOME**
MRS. VERONIQUE GRAFF, MANAGING DIRECTOR, GREENWIN

Session 1. Alternative raw materials

09:45 **«BIOPLASTICS: OPPORTUNITIES AND CHALLENGES»**
PROF. RAMESH PADAMATI, SENIOR RESEARCH FELLOW, POLYMER MATERIALS RESEARCH UNIT, TRINITY COLLEGE OF DUBLIN, IRELAND

10:05 **«LACTIPS: FROM LAB SCALE TO THE INDUSTRIALISATION OF A THERMOPLASTIC MATERIAL FROM MILK PROTEIN»**
MR. FREDERIC PROCHAZKA, CO-FOUNDER AND SCIENTIFIC DIRECTOR, LACTIPS

10:25 «**LOOPLA, THE SOLUTION TO UPCYCLE OLD PLA INTO VIRGIN PLA »**
MR. FREDERIC VAN GANSBERGHE, CEO, FUTERRO

10:45 «**THE MOMENT DURABLE PLASTICS BECAME TOO DURABLE FOR THIS WORLD».**
MR. STEFAAN DE WILDEMAN, DIRECTOR, B4PLASTICS

11:05 **«AGRICHEMWHEY: AN INTEGRATED BIOREFINERY FOR THE CONVERSION OF DAIRY SIDE STREAMS TO HIGH VALUE BIO-BASED CHEMICALS».**
DR. BILL MORRISSEY, B.AGRI SC, PHD, BIOECONOMY PROGRAMME MANAGER, GLANBIA IRELAND

11:25 **COFFEE BREAK / EXHIBITION AND POSTERS SESSION**

Session 2. Process

11:55 **«PATHWAYS, PROCESSES, PRODUCTS BIOPROCESS DEVELOPMENT AND SCALE-UP»**
MR. STEPHAN FREYER, SENIOR RESEARCH MANAGER, CHEMICAL ENGINEERING INDUSTRIAL
BIOTECHNOLOGY, BASF SE

12:15 **«ALPO - BIOPLASTICS FROM MICROALGAE CULTURES**»
MR. LAURENT DEWASME, RESEARCH COORDINATOR, UNIVERSITY OF MONS

12:35 **« BEYOND MINIATURISATION AND PARALLELISATION: STANDARD AND TAILOR-MADE AUTOMATED WORKFLOWS FOR SMART MICROBIAL PHENOTYPING AND BIOPROCESSING**»
PROF. DR. MARCO OLDIGES. HEAD OF DEPARTMENT BIOPROCESSES AND BIOANALYTICS. ADDRESS. FORSCHUNGSZENTRUM JÜLICH GMBH. INSTITUTE OF BIO- AND GEOSCIENCES, GERMANY

13:00 **WALKING LUNCH/EXHIBITION AND POSTERS SESSION**

Session 3. Societal challenges

14:00 **«DESIGNING TODAY FOR A SUSTAINABLE TOMORROW»**
MR. PIETER WILLOT, MANAGER SUSTAINABLE PACKAGING & MATERIALS, DESTER BVBA

14:20 **«POSTGRADUATE PRESENTATION»**

14:40 **« POSTERS AWARD AND CONCLUSION»**
PROF. DAVID CANNELLA, ASSISTANT PROFESSOR, BTL – BIOMASS TRANSFORMATION LAB, ULB

15:00 **NETWORKING COCKTAIL (UNTIL 16:30)**

15 :30 **«LABS TOUR» - VISIT CMMI & CM2**

15:30 – 17:30 ***WORKSHOP***

- **AgriChemWhey Project – Workshop**

  Symbiotic industrial and agricultural value chain & valorisation of agro-food waste into biopolymers for packaging, what can be done in Wallonia? Lessons from the EU projects AgriChemWhey and KARMA.

The EU funded project AgriChemWhey (ACW) (22 million euros BBI funding) aims at tackling the whey disposal issues faced by the dairy industry by converting whey low value residues into high value bio-based chemicals at industrial scale, including lactic acid and polylactic acid for packaging.

In the framework of the conferences, ACW (www.agrichemwhey.com) is holding a workshop, in collaboration with the EU KARMA project (http://www.karma2020.eu/) around the potential to build symbiotic agro-industrial value chains in Wallonia and thus replicate the projects in the region.
Through this workshop, both projects are willing to interact with local stakeholder in Wallonia to disseminate good practices to connect the agro-food and polymer industry sector to eventually valorise agro-food waste into high added value molecules.

Programme:

- Introduction & round table
- Lessons learnt and good practices regarding the symbiotic value chain building: KARMA & AgriChemWhey
- Workshop around the potential in Wallonia for *"the Valorisation of agro-food waste into biopolymers and the development of symbiotic industrial and agricultural value chain".*
- Conclusion

The workshop is open to anyone willing to contribute to the building of such symbiotic agricultural and industrial value chain, i.e. agro-food industries facing issues related to waste and/or packaging; technology provider for biomass transformation, polymer industry or anyone willing to support the local bio-based economy.

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