

PROGRAMME OVERVIEW

BIOKET 2021: From March 1 st – 19 th			
<p>Video on Demand: March 1st - 19th</p> <ul style="list-style-type: none"> • Breakout sessions • Innovation Tours • Workshop 	<p>9 breakout sessions:</p> <ul style="list-style-type: none"> • KETs for algae biorefinery • KETs for biomass pretreatment • KETs for lignin valorization • Application of KETs • KETs for ecoextraction (Sponsored by Tournaire) • KETs to enzymatic catalysis and processes associated with biotechnology • KETs for process control, optimization, and modeling • KETs for DSP • KETs for wood biorefinery 	<p>Innovation Tours:</p> <ul style="list-style-type: none"> • Dunkirk area facilities • SAS Pivert • Stella Lanolines 	<p>Workshop:</p> <ul style="list-style-type: none"> • LIPES Project Final Workshop • and more videos from our partners
<p>Matchmaking: March 15th – 19th</p> <ul style="list-style-type: none"> • B2B Meetings 	<p>Pre-Scheduled B2B Meetings:</p> <ul style="list-style-type: none"> • Face to face meetings • 20 minutes long meetings • All Time Zone Covered 		
<p>Live sessions: March 16th – 18th</p> <ul style="list-style-type: none"> • Exhibition Area • Plenaries • Networking Moments 	<p>Plenaries:</p> <ul style="list-style-type: none"> • Moving from H2020 To Horizon Europe what are the opportunities for Bioeconomy? <i>Sponsored by Lille University – March 16th</i> • Synthetic biology, a multi-stage rocket for the bioeconomy? <i>Sponsored by Genopole - March 17th</i> • Bring you innovations to market <i>Sponsored by ARD – March 18th</i> 	<p>Networking Events:</p> <ul style="list-style-type: none"> • Group Discussions • The Bioeconomy Quizz <i>Sponsored by PNO Consultants – March 18th</i> 	

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Monday, March 1st, 2021 – Friday, March 19th, 2021

Breakout sessions:

KETs for process control, optimization and modelling (VOD)

Chaired by **Luuk VAN DER WIELEN** Director, Bernal Institute and Chair of Biosystems Engineering & Design - University of Limerick - Ireland

- **Heat Transfer Scale-Up of Batch Reactors : still a challenge ?**
Philippe LEURENT - Prosim
- **Gas Fermentation Laboratory Design**
Alex SMITH - CPI
- **Track Advance, a modern digital platform enhancing the global performance of factories**
Ludovic HENIN – Boccard
- **The role of shared pilot facilities in the deployment of gas fermentation : CCU AT BBEPP**
Karel DE WINTER - BBEU

KETs for Ecoextraction (VOD)

Session sponsored by Tournaire - Chaired by **Nicolas TETARD** - Sales Manager - Tournaire

- **Green extraction as economic, social and environmental concept for converting plant-based raw material to sustainable ingredients**
Farid CHEMAT - Green Univ Avignon
- **The challenge of scaling-up microwave assisted technologies**
Marilena RADOIU - Microwave Technologies Consulting
- **World's first off-grid mobile supercritical fluid extraction hardware: opening new doors**
Alexander NOVITSKIY -Nova Extraction
- **From tropical by-products to natural enzymes: a green-extraction opportunity**
Rémi PRZYBYSKI - Bioval Océan Indien
- **Vegetable extraction using liquefied gas as solvent**
Alain VALLAGEAS - Celsius

KETs for Algae Biorefinery (VOD)

Chaired by **Maria BARBOSA** – Director of AlgaePark - Wageningen University & Research

- **Comprehensive photobioreactor modeling: from isolated microalgae motic to population growth rate**
Victor POZZOBON – CentraleSupelec
- **Innovative photobioreactor integrating luminous fabric for high microalgae productivity at industrial scale**
Lucie VAN HAVER - Capacités
- **Fermentation and valorisation beyond borders**
Marc BUEVINK - Biostream international
- **From CO2 sequestration to biofuel production thanks to microalgae liquefaction**
Anne ROUBAUD - CEA Liten
- **The ALG-AD project: integrating anaerobic digestion and algal technologies**
Marcella FERNANDES DE SOUZA - Ghent University

KETs for Wood biorefinery (VOD)

Chaired by **Ian ARCHER** - Technical director - IBIOIC

- **How to implement a first forest residues based biorefinery: the BELT project methodology**
Patrice MANGIN – BioÉnergie La Tuque/I2E3-UQTR
- **Bio3 : A bio-refinery to valorize hardwood sugar without degrading cellulose to produce bio-based ingredient for food and chemical industries**
Marie CHAUVE - Eurodia / Jérémy BOUCHER - Fibre Excellence
- **Chemically modified microfibrillated cellulose: A new reinforcing additive for adhesive and thermoplastic resins**
Alex BERG - University of Concepcion
- **Bio4Products: Unlocking the potential of biomass for a new range of bio-based products**
Hans HEERES - BTG

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Application of KETs

Chaired by **Fabien DESWARTE** - Sustainable Innovation Manager - L'Oréal

- **Product diversification in the starch and ethanol industry, synergies between production units**
Alessandro GUZZONE – Vogelbusch Biocommodities
- **Microbubble Technologies Invented by Desai and Zimmerman**
Pratik DESAI – Perlemax
- **Stabilization of emulsions by vegetal coproducts**
Jérôme LE NOTRE - Pivert
- **Synthesis of a new set of lipoamino acids from brewery spent's grains**
Benoit MOREAU – HEPH-Condorcet

KETs for Biomass Pretreatment (VOD)

Chaired by **Thomas HABAS** - ENGIE Lab CRIGEN - Lab Biogaz, Biomass

- **Catalytic pyrolysis of biomass towards aromatics and subsequent conversion towards bioplastics**
Andre HEERES - University of Groningen
- **Contribution of dry processes in the raw material preparation for the biotechnological processes improvement**
Jean-Charles MOTTE – IMPROVE
- **Pulsed Electric Field : a key technology for biomass refineries**
Fabien MAJCHRZAK – MAGUIN
- **Intensified continuous biomass treatment by twin screw extrusion**
Lionel DANOS - CLEXTRAL
- **Futuro™: your one-way ticket to the 2G world**
Julie MAILLOT - Axens

KETs for DSP (VOD)

Chaired by **Ludo DIELS** - Senior Advisor - VITO

- **Flottweg - Extractis : A win-win partnership to offer Biotech players, highly qualified separation solutions**
Jean-Sébastien BIZOT - Flottweg / Olivier DUPUIS - Extractis
- **Thin film technology - evaporation and drying**
Jacqueline PANAROTTO - BUSS SMS Canzler
- **Dry Tribo-electrostatic Protein Enrichment of Distillers Grains**
Thomas WOLAK - SteqTech
- **Modeling and simulation of ion-exchange in bioprocesses - illustrations from industrial biotech to biopharma**
Yohan LE GUENNEC- Ypso-Facto - TBC

KETs for lignin valorisation (VOD)

Chaired by **Sergio MASTROIANNI** - Innovation Leader - Solvay

- **The value of stabilized lignin**
Florent HEROGUEL - Bloom Biorenewables
- **Role of lignin valorization in modern biorefineries**
Alexis MICHINE - MetGen
- **Joining forces to enable commercial production of functionalized biobased aromatics: lignovalue pilot & shared research centre Biorizon**
Karolien VANBROEKHOVEN - VITO
- **Catalytic conversion of lignin to bio-aromatic compounds – process design and assessment for industrial implementation**
Kerstin THIELE - Fraunhofer CBP
- **The scale-up route for fuels and chemicals from second generation biomass**
Rob VERLINDEN - BPF

KETs to enzymatic catalysis and processes associated with biotechnology (VOD)

Chaired by **Rob ONDERWATER** - Scientific Leader Biotechnology Dpt - Materia Nova

- **PARAGEN 1.0: a bacteriocin gene library to control microbial communities**
Philippe GABANT - Syngulon
- **Cellobioselipids and Mannosylerythritolipids: Process Optimization for the Production Purification of Microbial Biosurfactants**
Fredyc Wsbaldo BARON NUNEZ- Fraunhofer IGB
- **Artificial Intelligence: next phase in protein engineering**
Juan JIMENEZ - Protera Biosciences
- **Creating value for industrial biotechnology with protein design**
Alexandre ZANGHELLINI – Arzeda
- **Implementation of an enzyme membrane reactor to intensify the enzymatic β -glycosylation of resveratrol**
Morad CHADNI – CEBB -URD ABI AgroParisTech

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Innovation Tours: DUNKIRK AREA Facilities (VOD)	SAS Pivert (VOD)	STELLA LANOLINES (VOD)
<p>Workshop: KETs to enzymatic catalysis and processes associated with biotechnology (VOD) LIPES PROJECT FINAL – Life Integrated Process for the Enzymatic Splitting of Triglycerides (VOD)</p> <p>The LIPES project is dedicated to bringing the first market replication of greener and healthier fatty acids with the scale-up to pre-industrial level of a new environmentally friendly alternative to the traditional and current splitting routes of triglycerides.</p> <p>The objective was to create high purity bio-based intermediates and end products from vegetable oils and fats: New low trans FA for food application, high quality fatty acids leading to new grades of C36 and C44 dimer acids and co-polyesters.</p> <p>The LIPES approach replaces current thermal hydrolysis and saponification production routes, instead using a new enzyme-based, environmentally friendly alternative.</p> <p>Using this approach makes the process far more resource efficient, saving at least 45% water, 70% enzymes and 80% energy over current approaches</p>		



Monday, March 15th, 2021 - Friday, March 19th, 2021

Matchmaking:

B2B Meetings

Pre-scheduled meetings with the bioeconomy key players and meet them in an individual 20min meeting.

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 Tuesday, March 16th, 2021 – Thursday, March 18th, 2021

<p>Tuesday, March 16, 2021</p> <p>10:00 – 12:30</p>	<p>Plenary sponsored by University of Lille</p> <ul style="list-style-type: none"> • Welcome and opening words Christophe LUGUEL - IAR- The French Bioeconomy Cluster • Bioeconomy at the University of Lille Franck DUMEIGNIL – University of Lille • BBI JU impact assessment: 5 years of iPPP! Philippe MENGAL - BBI JU • How to build a successful project Christophe LUGUEL - IAR - The French Bioeconomy Cluster • Success stories Math LAMBALK - Avantium Herman BOTTENBERG - Zeton Yann RAOUL - Oleon • Circular Biobased Europe (CBE) the successor of BBI JU under Horizon Europe? Philippe MENGAL - BBI JU
<p>Wednesday, March 17, 2021</p> <p>14:00 – 16:30</p>	<p>Plenary sponsored by Genopole</p> <ul style="list-style-type: none"> • France's leading biocluster for biotechnologies and research genomics and postgenomics Christophe LANNEAU - Genopole • Synthetic biology: past, present and future! Dr. Jean Loup FAULON - Micalis Institute of INRA • Building an artificial chloroplast Drop-by-Drop Tarryn MILLER- Max Plancke Institute <ul style="list-style-type: none"> • Catalyzing the New Bioeconomy Jess LEBER - Ginkgo Bioworks • Round table: Is synthetic biology meeting the industry objectives Moderator: Cyrille Pauthenier - Abolis Michael KREL - Sofinnova Partners Thierry AUDIBERT - Givaudan Jess LEBER - Ginkgo Bioworks Nicolas SEEBOTH - Michelin
<p>Thursday, March 18, 2021</p> <p>09:30 – 11:30</p> <p>16:30 – 18:30</p>	<p>Plenary sponsored by ARD</p> <ul style="list-style-type: none"> • Introduction Jacky VANDEPUTTE – IAR – The French Bioeconomy Cluster • ARD, platform for innovation in the biotechnology industry and green chemistry Jean-Christophe DUVAL - ARD <ul style="list-style-type: none"> • How to speed up time to market of innovations? Jean-Christophe DUVAL - ARD Olivier ROLLAND - TWB Cyrille PAUTHENIER – Abolis • How to finance the acceleration of start-up? Jean-Christophe DUVAL – ARD Dr. Michael BRANDKAMP – ECBF Michael KREL - Sofinnova <p>Quizz sponsored by PNO</p> <ul style="list-style-type: none"> • The BIOKET Bioeconomy Quizz