

BIOKET

The global conference dedicated to
PROCESSES AND TECHNOLOGIES
APPLIED TO BIOMASS



Showguide 2021

March 1st-19th, 2021

Online

Organized by



THE FRENCH
BIOECONOMY CLUSTER

With the support of



Région
Hauts-de-France



Business Support on Four Doorsteps

Platinum sponsors



GENOPOLE
VIEUX L'INNOVATION



Université
de Lille



INNOVATE IN INDUSTRIAL BIOTECHNOLOGY

STIMULATE INNOVATION

At Genopole, we seek to sound new knowledge, for the development of innovations that will contribute to human well-being, as concerns health and the environment.

The main fields of activity developed on-site are:

- ∞ bioeconomy,
- ∞ computational genomics,
- ∞ innovative therapies.

LINKING SCIENCE... ...TO BIOECONOMY

A pioneer in synthetic biology, Genopole is increasingly attracting researchers and industrials active in that field and the progress being made is enabling a large range of industrial applications.

GIP GENOPOLE
Campus 1 - Bât 8
5 rue Henri Desbruères - F-91000 Evry - FRANCE
T: +33 (0)160 878 300 - www.genopole.fr

Genopole benefits from the support of



Genopole,
France's leading biocluster
in the Paris Region,
accommodates, accompanies and
connects companies and laboratories
in all fields of biotechnologies.



A NETWORK OF SCIENTISTS AND INDUSTRIALS

Abolis - Altar - Cearitis - Core Biogenesis - Evaldepol - FabMid - Fermentation Bioproduction Platform - Glowee - Gourmey - Greenwell - Metabolic Genomics Laboratory (including the systems and synthetic biology unit) - NextProtein - Proteinea - Pymabs - Structurys - Synhelix - Synovance - Watchfrog - Ynsect





Index

Edito IAR	page 7
About IAR – The French Bioeconomy Cluster	page 9
BIOKET 2021 Advisory Board	page 10
Programme at a glance	page 13
Your detailed programme	
• March 1st-19th: Video-on-demand.....	page 15
• March 15th-19th: Matchmaking.....	page 21
• March 16th-18th: Live sessions.....	page 21
The BIOKET Bioeconomy Quiz	page 25
Chairpersons & speakers	
• Plenaries.....	page 26
• Breakout sessions.....	page 29
Exhibitors & sponsors' profile	page 40
Innovation Tours	
• Lanolines Stella.....	page 45
• Dunkirk's area.....	page 46
• SAS Pivert.....	page 47
Workshops	
• LIPES.....	page 48
• IBISBA.....	page 49
• VALUEMAG.....	page 50
• Carnot 3BCAR.....	page 51
Start-up village	page 53

THE BIOECONOMY, A CRUCIAL STAKE FOR THE HAUTS-DE-FRANCE



A REGIONAL STRATEGY BASED ON FOUR AMBITIONS

-  **Make** the Hauts-de-France the European leader in the protein sector.
-  **Develop** biosourced materials for the transport and construction sectors.
-  **Increase** the share of biogas in the energy mix with a target of 25% renewable energies produced in the Region by 2025.
-  **Support** biotechnologies to enable the development of the molecules of the future.

Find us on:
www.hautsdefrance.fr



Biomass

Digital



LIVE THE BIOKET DIGITAL EXPERIENCE



Innovation



In the heart of tomorrow's industry 4.0, the University of Lille is developing international, innovative, cutting-edge research in bioeconomy.

OBJECTIVES

- Understand and monitor global changes
- Seek alternative solutions to the exploitation of fossil resources
- Evaluate the impact of climate change on Earth, people and societies

STRENGTHS

- A privileged position inside European networks, taking the lead on scientific and technological processes at the heart of biorefineries, and expertise within French consortia.
Examples: coordination of the EuroBioref FP7 project, coordination of the REALCAT EQUIPEX platform and participation in the ROCK EQUIPEX platform, important roles in the ITeS IFMAS and PIVERT.
- Socio-economic collaboration and strong links with industrial partners to develop the ground-breaking key technologies necessary to create the Industry 4.0 in the biomass valorisation sector.
- Regional initiatives (e.g. Rev3 and Eura Industry Innov') and links with the regional technopole parks to support business development and technological transfer from research results.

HOW WE WORK

- As experts in the Lille area, we are developing an innovative approach to research integrating a large number of disciplines. Chemistry and Biotechnology are deeply involved via participation in INTERREG projects and the development of cutting-edge innovation in fundamental research such as the "Hybrid Catalysis" concept. Other projects have a regional flavour (e.g. CPER ARCHI-CM Alibiotech). We have had numerous successes in industrial and fundamental research, including the construction of the first cross-border research unit, in association with the INRAE, the TERRA institute of the University of Liege (Belgium) and the UPJV (Amiens), three major French and Belgian actors in European research in bioeconomy. Moreover, interrelationships between biorefineries and their supply chains, when seen as an ecosystem, raise interdisciplinary questions of logistics and economics. The University of Lille also integrates into the reflection process input from historians, philosophers, political scientists and legal scholars to question the acceptability of new behaviours in the global ecological transition, adopting an interdisciplinary approach.
- The Biorefinery BIOREF Master's, an Erasmus Mundus programme, is educating a new generation of interdisciplinary scientists able to apply their knowledge in a renewed bioeconomy-based society and in the private sector. The programme has been designed to offer unique specialisations and skills that will make graduates attractive to the employment sector and ensure fast and high-quality employability in the labour market and/or in research.
master-bioref.eu

DYNAMIC INDUSTRIAL PARTNERSHIPS

- 33 patents since 2013
- 5 start-ups in incubation
- 2 companies founded from start-ups developed by our labs
- 3 public-private laboratories
- More than 50 different industrial partnerships over the past 5 years



Edito

THE CURTAIN RISES TOWARD THE SECOND EDITION OF BIOKET

IAR – The French Bioeconomy Cluster – is delighted to welcome you digitally for the second edition of **BIOKET**, THE Global Conference dedicated to processes and technologies applied to biomass.

After the success of its first edition in 2018 which gathered 300 delegates from all over the world, **BIOKET** is back with high ambition to boost once again the emergence of innovative projects and business partnerships.

In 2021, you are more than 400 delegates for this edition of **#BIOKETDigital**, confirming how essential KETs are. KETs play a central role when it comes to biomass transformation optimisation. They underpin the shift to a greener economy, are instrumental in modernising our industry and drive the development of entirely new industries.

We trust that **#BIOKETDigital** will provide an abundance of opportunities to promote your business and technologies, to expand your network and build new international partnership with the key players and experts of the sector.

#BIOKETDigital is offering you lots of opportunities to meet your tomorrows partners such as the pre-scheduled B2B meetings and the exhibition arena.

Our thanks to all delegates, speakers, sponsors and partners who make **BIOKET** the unique conference dedicated to technologies and processes applied to biomass!

Boris DUMANGE - Director General
IAR - The French Bioeconomy Cluster

IAR, STRENGTHENING INDUSTRIAL COMPETITIVENESS THROUGH INNOVATION



IAR is **the leading Bioeconomy Cluster** in Europe. With more than **430 members**, from farmer cooperatives, research organisations and universities to venture capital firms, start-ups, SMEs and large industries, it is your gateway to **the French bioeconomy!**

KEY FIGURES

€2+ BILLIONS INVESTMENTS

350+ PROJECTS

430+ MEMBERS

6 STRATEGIC AXIS

- 1 Bio-based resources
- 2 Feed & food
- 3 Bio-based chemistry & biotech
- 4 Bio-based products and materials
- 5 Energy
- 6 Process & KETs

FOLLOW US

www.iar-pole.com

About IAR: The French Bioeconomy Cluster

IAR, your Gateway to the French Bioeconomy

IAR is the leading bioeconomy cluster in Europe. It brings together over 400 stakeholders from farmer cooperatives, research organisations and universities to venture capital firms, start-ups, SMEs and large industries.

IAR focuses on all bioeconomy aspects: from feedstock production to its valorisation into food & feed, industrial (bio-based chemicals and bio-based materials) and energy (biofuels and biogas) applications.

IAR provides a full range of services to bio-based innovators:

- Through our extensive network, we provide you with qualified contacts to grow your projects and business
- We support your development of innovative, collaborative, industry-driven R&I projects – from conception to financing
- Gain access to our economic, technological and business knowledge of the French bio-based market

We strive for excellence!

IAR, since 2005: over €2 billions invested in 300 R&D collaborative projects!

www.iar-pole.com - contact@iar-pole.com

+33 (0)3 64 54 30 30

10 rue Pierre Gilles de Gennes
02000 Barenton-Bugny, FRANCE

Follow us!

@IARcluster

IAR – The French Bioeconomy Cluster

JOIN THE IAR CLUSTER
FOR ITS WIDE RANGE OF SERVICES

IARINTERNATIONAL
GROWTH WITHOUT BORDERS
Offer a new horizon to your ambition and access new markets abroad

IARPROJECTS
BOOSTING INNOVATION
Facilitate the emergence and financing of your innovation projects

IARINVEST
A GROWTH ACCELERATOR
Speed-up the growth of highly innovative startups

IARNETWORK
THE NETWORK EFFECT
Meet your partners, develop your expertise and increase your visibility

IARCOMPETITIVE INTELLIGENCE
KNOWLEDGE, THE BASIS OF SOUND DECISION-MAKING
Accessing economic, technological and business insight in the bioeconomy enabling you to make strategic decisions

IAREUROPE
EUROPEAN FUNDING
Seize European opportunities for your projects and developments

IARACADEMY
BIOECONOMY SKILLS
Decrypt and develop the skills of the bioeconomy

IAR
THE FRENCH BIOECONOMY CLUSTER

www.iar-pole.com

BIOKET 2021 Advisory Board



Florent ALLAIS

Director

URD ABI - AgroParisTech



Cécile BARRERE-TRICCA

President

Axelera



François NICOL

Chairman

Société Française de Génie des Procédés (SFGP)



Kevin O'CONNOR

Director

Beacon SFI Bioeconomy Research Center



Dirk CARREZ

Executive Director

Biobased Industries Consortium (BIC)



Ludo DIELS

Senior Advisor

VITO



Christian OEHR

Head of dpt of Interfacial Engineering

Fraunhofer IGB



Anne-Christine RITSCHKOFF

Senior Advisor

VTT



Franck DUMEIGNIL

Director of the Unit of Catalysis and Chemistry of Solid

UCCS - UMR CNRS



Claus Crone FUGLSANG

CSO, SVP Research & Technology

Novozyme



Luuk VAN DER WIELEN

Director

Bernal Institute



Niklas VON WEYMARN

CEO

Mestä Spring



Michael KREL

Principal

Sofinnova Partners



Yvon LE HENAFF

Chairman

IAR - The French Bioeconomy Cluster



Pierre MONSAN

Director

Toulouse White Biotechnology (TWB)

PROGRAMMING COMMITTEE

Christophe CLEMENT

RIBP Research Unit Director - University of Reims

Johan DE CONINCK

Networks & Enterprises Development Director - IAR - The French Bioeconomy Cluster

Christophe LUGUEL

European Projects Director - IAR - The French Bioeconomy Cluster

Louis TIERS

Consultant - IAR - The French Bioeconomy Cluster

Jacky VANDEPUTTE

Scientific Director & Innovation Manager - IAR - The French Bioeconomy Cluster

Sponsorship & Exhibitors

PLATINIUM



GOLD



SILVER



BRONZE



PROGRAMME AT A GLANCE

MARCH 1ST – MARCH 19TH – VIDEO-ON-DEMAND

Breakout sessions	<ul style="list-style-type: none"> • Application of KETs • KETs for algae biorefinery • KETs for biomass pretreatment • KETs for DSP • KETs for ecoextraction (sponsored by Tournaire) • KETs for lignin valorization • KETs for process control, optimization and modelling • KETs for wood biorefinery • KETs to enzymatic catalysis and processes associated with biotechnology
Innovation Tours	<ul style="list-style-type: none"> • Dunkirk area facilities • SAS PIVERT • Lanolines Stella
Workshops	<ul style="list-style-type: none"> • LIPES project - Life Integrated Process for the Enzymatic Splitting of Triglycerides • VALUEMAG – Blue bioeconomy – Valuable Products from Algae Using Innovation • IBISBA within the global context of biofoundries and accelerated end-to-end bioprocess development • 3BCAR – Phenolic acids: from research to market
Start-up Village's Pitch <i>From March 8th – 19th</i>	<ul style="list-style-type: none"> • Alganelle • BIOC3 • BioThoT • BLOOM Biorenewables • Chemintelligence • D'INNOV • EV Biotech • Guatecs • iMean • Lixea • Teamcat Solutions • Water Knight • Xtrem Biotech • Zymoptiq • Zymvol Biomodeling

PROGRAMME AT A GLANCE

MARCH 15TH – MARCH 19TH – MATCHMAKING

Pre-scheduled B2B meetings	Pre-schedule 1 to 1 meetings with the BIOKET participants and find your would-be partners.
-----------------------------------	--

MARCH 16TH – MARCH 18TH – LIVE SESSIONS

Exhibition ARENA	Visit the virtual booth of our exhibitors
Plenaries	<ul style="list-style-type: none">• March 16th (10h-12h30 CET): Moving from H2020 to Horizon Europe - what are the opportunities for the bioeconomy? <i>Sponsored by the University of Lille</i>• March 17th (14h-16h30 CET): Synthetic biology - a multi-stage rocket for the bioeconomy <i>Sponsored by Genopole</i>• March 18th (9h30-11h CET): Bring your innovations to market <i>Sponsored by ARD</i>
The BIOKET Bioeconomy Quiz	March 18th (16h30-18h CET) Join the BIOKET participants for a playful moment to test your knowledge about the bioeconomy field and on BIOKET! <i>Sponsored by PNO Consultants</i>

YOUR DETAILED PROGRAMME

MARCH 1st – 19th – VIDEO-ON-DEMAND

Breakout session: Application of KETs	<i>Chairperson: Fabien DESWARTE - L'Oréal</i> 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 Stabilisation of emulsions by vegetal coproducts Jérôme LENOTRE – Pivert Synthesis of a new set of lipoamino acids from brewery spent's grains Benoit MOREAU – HEPH-Condorcet
Breakout session: KETs for algae biorefinery	<i>Chairperson: Maria BARBOSA – Wageningen University & Research (Algae Park)</i> Comprehensive photobioreactor modeling: from isolated microalgae motion to population growth rate Victor POZZOBON – CentraleSupélec Innovative photobioreactor integrating luminous fabric for high microalgae productivity at industrial scale Lucie VAN HAVER – Capacité Fermentation and valorization beyond borders Marc BUEVINK – Biostream 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

YOUR DETAILED PROGRAMME

MARCH 1st – 19th – VIDEO-ON-DEMAND

Breakout session: *Chairperson: Thomas HABAS – ENGIE*

KETs for biomass

pretreatment **Catalytic pyrolysis of biomass towards aromatics and subsequent conversion towards bioplastics**

Andre HEERES – Hanze University of applied Sciences, 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

Breakout session: *Chairperson: Ludo DIELS- VITO*

KETs for DSP

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

Yoann LE GUENNEC- Ypso-Facto

YOUR DETAILED PROGRAMME

MARCH 1st – 19th – VIDEO-ON-DEMAND

Breakout session: *Chairperson: Nicolas TETARD – Tournaire*

KETs for

ecoextraction

(sponsored

by Tournaire)

Green extraction as economic, social and environmental concept for converting plantbased raw material to sustainable ingredients

Farid CHEMAT - Green Extraction

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 PRZYBYLSKI – BIOVAL Océan Indien

Vegetable extraction using liquefied gas as solvent

Alain VALLAGEAS – Celsius

Breakout session: *Chairperson: Sergio MASTROIANNI – Solvay*

KETs for lignin

valorization

The value of stabilized lignin

Florent HEROGUEL - Bloom Biorenewables

Role of lignin valorization in modern biorefineries

Sami-Pekka RANTANEN - 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

vito 

YOUR PARTNER FOR R&D

HOW VITO CONTRIBUTES TO A SUSTAINABLE WORLD



New value chains from alternative feedstock



Sustainable industrial processes



Technology demonstration





Development from lab to pilot scale

SUSTAINABLE CHEMISTRY

More info? www.vito.be
Contact roel.vleeschouwers@vito.be

m2p-labs
Microbioreactors

BioLector® – High throughput cultivation of microorganisms for strain selection, clone screening, promotor studies, protein expression, synthetic biology ...

Ideal for

- Process Development
- Fed-Batch Optimization
- Media Screening
- pH Profiling
- Scale-Up
- Microbiome Analysis
- Anaerobic Cultivation
- Strain Characterization

m2p-labs GmbH | Microbioreactors
Phone: +49 2401-805 330 | e-mail: info@m2p-labs.com | www.m2p-labs.com

TRACK ADVANCE
PERFORMANCE ASSISTANCE TECHNOLOGY

**UNDERSTAND
DECIDE
OPTIMISE**

Industry 4.0 platform

ASK FOR A DEMO
+33 2 99 06 34 70



www.track-advance.com

böccard
Alliance for success

Cost-effective purification processes for your bio-based chemical production

Ion Exchange
Chromatography
Membrane Filtration
Electrodialysis
Adsorption

}

Organic acids
Cellulosic sugars
Glycols
Amino acids
Or any other challenge!

www.novasep.com

Get the most from your purification process

novasep
passion & smart processes

MARCH 15th – 19th – MATCHMAKING

B2B meetings Develop your business leads and find your would-be partners through the BIOKET virtual B2B meetings. Pre-scheduled 20 minutes' meetings in 1 to 1 appointments.

MARCH 16th – 18th – LIVE SESSIONS

Exhibition Arena Discover our sponsor's technologies and innovation by visiting our virtual exhibition.

Plenary Session: Moving from H2020 to Horizon Europe, what are the opportunities for the bioeconomy?

March 16th –
10h-12h30 CET

Sponsored by University of Lille

Chairperson: Christophe LUGUEL - IAR- The French Bioeconomy Cluster

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 – Bio-Based Industries Joint Undertaking

How to build a successful project

Christophe LUGUEL – IAR- The French Bioeconomy Cluster

Success stories:

Ed DE JONG – Avantium

Yann RAOUL – OLEON

Thomas LADRACK – Zeton

The green deal challenges & opportunities for the bioeconomy?

Philippe MENGAL – Bio-Based Industries Joint Undertaking

YOUR DETAILED PROGRAMME

MARCH 16th – 18th – LIVE SESSIONS

Plenary Session: Synthetic biology, a multi-stage rocket for the bioeconomy?

March 17th – 14h-16h30 CET
Sponsored by Genopole

Chairperson: Christophe LANNEAU – Genopole

France's leading biocluster for biotechnologies and research in genomics and genetics

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 Planck Institute

Constructing a platform to enable diverse industries through synthetic biology

Jess LEBER – Ginkgo Bioworks

Round table: Is synthetic biology meeting the industry objectives

Animated by Cyril PAUTHENIER – Abolis

Michael KREL – Sofinnova Partners

Thierry AUDIBERT – Givaudan

Jess LEBER – Ginkgo Bioworks

Neil PARRY – Unilever

Nicolas SEEBOTH – Michelin

YOUR DETAILED PROGRAMME

MARCH 16th – 18th – LIVE SESSIONS

Plenary Session: Bringing your innovations to market

March 18th – 9h30-11h CET
Sponsored by ARD

Chairperson: Jacky VANDEPUTTE - IAR -The French Bioeconomy Cluster

How to speed up time to market of innovation?

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 Partners

The BIOKET Bioeconomy Quiz Test your knowledge on the bioeconomy field and enjoy a pleasant moment with the BIOKET participants! Sponsored by PNO Consultants

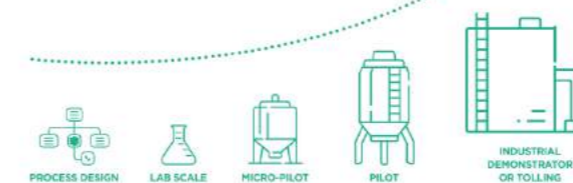
March 18th

16h30-18h CET



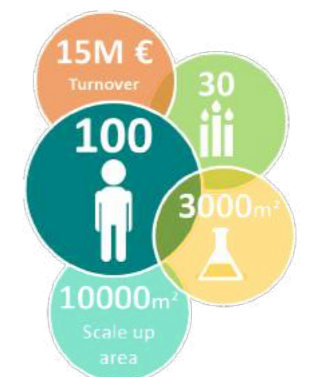
Expert in biotechnology, plant extraction, green chemistry and bio-inputs, ARD innovates and offers solutions to its customers by enhancing biomass.

We bring your **innovation to market!**



www.a-r-d.fr

ARD at a glance



ARD

Route de Bazancourt
51110 Pomacle
FRANCE

Tel: +33 (0)3 26 05 42 80

www.a-r-d.fr

contact@a-r-d.fr

<https://fr.linkedin.com/company/a-r-d>



PNO CONSULTANTS




Expand your possibilities with europe's leading innovation and funding consultancy

The bioeconomy market is growing and it has become one of PNO's focus areas too. Since 2015, PNO has secured around 100 million euro in Bio-Based Industries (BBI) funding for its clients and is continuously delivering innovation services to stakeholders within all of the main involved value chains.

We have developed a strong expertise in conceptualising projects, finding the right partners, providing advice on public funding opportunities, writing proposals and supporting our clients throughout the implementation phase. Our bioeconomy expertise includes techno-economic evaluation, bio-refineries and bioprocesses conceptualisation.

CONTACT US



-  Lyndsey.Starr@pnoconsultants.com
-  Ron.Weerdmeester@pnoconsultants.com
-  Nader.Akil@pnoconsultants.com
-  Barbara.Bendaoud@pnoconsultants.com
-  Jamel.Bouzenzana@pnoconsultants.com
-  PCircelli@ciaotech.com
-  Elena.Calzado@pnoconsultants.com

OUR LATEST PROJECTS



The Bioeconomy Quiz

PNO Consultants and **BIOKET** propose you a nice and playful moment to test your knowledge about the bioeconomy field and on BIOKET!

Join us on March 18th to answer 30 questions.

Integrate the contest and win incredible prizes!

- **First place:** A Champagne case (6 bottles) + 1 free full pass for the next edition of BIOKET
- **Second place:** 3 bottles of Champagne + 1 free full pass for the next edition of BIOKET
- **Third place:** 1 bottle of Champagne + 1 free full pass for the next edition of BIOKET

Tips to prepare your quiz

- Make sure to visit all our **sponsor's booths** from March 16th to March 18th. You might find answers
- Watch the videos on the **VOD section**. There should be clues to answer the quiz and to update your knowledge of bioeconomy technologies and processes.



EURODIN
GROUP

**SUSTAINABLE
&
TAILOR-DESIGNED
PROCESS SOLUTIONS**

www.eurodia.com



Chairpersons & Speakers

MARCH 17

Plenary Session



CHAIRPERSON

Christophe LANNEAU, Open-mind scientist with strong expertise in life sciences to support with Open Innovative projects that seek from public/private research solution impacting global health, manage public funding and assure relationship management (seek resources, contract)

MARCH 16

Plenary Session



CHAIRPERSON

Christophe LUGUEL, has a Master of Engineering in Agronomy. He occupied various positions in sales, marketing or business development in chemical & biotech companies. He's currently EU Project Manager of IAR Cluster and also Vice Chair of BIC, Board and member of the governing board of BBI.



Thierry AUDIBERT

has a background in Chemistry & Perfume Creations. He held various positions before moving into Sales. He was appointed as Head of Fragrance Research contributing to develop Givaudan Fragrance Biotechnology expertise. Today, as Head of New Business Development for the Fragrance Division, he covers M&A activities



Jean-Loup FAULON

is Director of INRA and synthetic biology professor (Manchester Univ). He coordinates the network BioSynSys of the CNRS. Previously, he has been director of the institute of system and synthetic biology (Genopole, Evry and research director at Joint BioEnergy Institute (JBEI)



Michael KREL

joined the Life Sciences team of Sofinnova in 2013 and is currently Principal. He focuses on investments in the industrial biotechnology & renewable chemistry sectors. He graduated from Ecole Polytechnique and holds a PhD in organic chemistry from the Institut de Chimie des Substances Naturelles.



Dr. Jess LEBER

has over 20 years of experience and expertise as a microbiologist, molecular biologist, and metabolic engineer. As Director of Business Development at Ginkgo, Jess brings his technical background to help identify new commercial opportunities.



Eelco BLUM

at Avantium, is tasked with commercializing a portfolio of revolutionary renewable chemistry solutions, including Ray Technology™ (plant-based glycols) and Dawn Technology™ (second generation biorefinery.) Prior to joining Avantium, Eelco worked for Cargill and Solazyme/TerraVia.



Franck DUMEIGNIL

PhD, spent 6,5y in Japan before returning in France as Full Professor (Univ. Lille). He coordinated several projects such as EuroBioRef and directed the CNRS Laboratory CAT&P4BIO. He's currently coordinating the H2020 doctoral "Programme for Early-stage Researchers in Lille".



Thomas LADRAC

is Sales Manager at Zeton BV in the Netherlands. He has 22 years' experience in sales and marketing functions. Within the Zeton Sales team he is responsible for the large scale modular plants and all bio related projects.



Philippe MENGAL

is the Executive Director of the Bio-based Industries Joint Undertaking (BBI JU). He trained as an engineer in Chemistry and Bio-industry & in Strategic Innovation Management. He held strategic managerial positions such as CEO of 3 companies, Global R&D Director and Senior Consultant in food ingredient, engineering and life science.



Tarryn MILLER

is a PhD candidate at the Max Planck Institute for Terrestrial Microbiology in Marburg, Germany. She joined the institute to work on artificial CO₂ -fixation and photosynthesis.



Neil PARRY

PhD in industrial biotechnology, is Research Programme Director Biotechnology & Biosourcing at Unilever R&D Port Sunlight lab. In 23 years at Unilever, he has successfully commercialised a range of new ingredients. He is inventor on 45+ patents & holds advisory posts on boards (EU, IBLF, BioC)



Cyrille PAUTHENIER

MsD ENS Paris, PhD Paris-Saclay University. Young entrepreneur in synthetic biology, he is the President and founder of Abolis Biotechnologies, a pluridisciplinary metabolic engineering SME that focuses on long and complex pathways.

Round table moderator



Nicolas SEEBOTH

is an experienced research director with demonstrated history of working in the field of polymers and chemical industry. Vice president of Toulouse White Biotechnology, a public-private consortium with objectives to accelerate development in industrial biotechnology.



Yann RAOUL

is managing collaborative projects at Oleon and coordinates the LIPES and INCITE European projects on the development of enzymatic processes. He holds a PhD in organic chemistry from the University of Hull (UK) and has been working in the oleochemical industry for 20 years

MARCH 18

Plenary Session



CHAIRPERSON

Jacky VANDEPUTTE is scientific Director at IAR – The French Bioeconomy Cluster. With a double skill in biochemistry and marketing and quality (Lille University), he has started his career in the food industry where he was in charge of quality management & trading of dairy ingredients. Shifting then to French associations on the promotion and defense of fruit juices.



Michael BRANDKAMP

is currently general partner of the European Circular Bioeconomy Fund (ECBF). He has occupied different position such as managing director or director tech investments and has taken part as Advisory Boards member at the Fraunhofer Institute for Environmental, Safety & Energy Technology.



Jean-Christophe DUVAL

worked in atocem and Acetex before joining a European agency promoting sustainable growth where he supported startups and developed innovative projects. He joined ARD in 2015 as Business Development Director and Director of its affiliated company WHEATOLEO. He became ARD's CEO in 2018.



Michael KREL

joined the Life Sciences team of Sofinnova in 2013 and is currently Principal. He focuses on investments in the industrial biotechnology & renewable chemistry sectors. He graduated from Ecole Polytechnique and holds a PhD in organic chemistry from the Institut de Chimie des Substances Naturelles.



Olivier ROLLAND

is Managing Director of TWB, a public / private industrial biotechnology organization that transitions early stage R&D from academic labs into preindustrial development projects and start-ups. Olivier has 10+ years experience in strategy, business and product development in the bio-economy at Boeing, Amyris, Total and Michelin.



Cyrille PAUTHENIER,

MsD ENS Paris, PhD Paris-Saclay University. Young entrepreneur in synthetic biology, he is the President and founder of Abolis Biotechnologies, a pluridisciplinary metabolic engineering SME that focuses on long and complex pathways.

VIDEO ON DEMAND

KETs for Algae biorefinery



CHAIRPERSON

Dr Maria Barbosa, PhD in Bioprocess Engineering, is Professor in Microalgae Biotechnology & Director of AlgaePARC at Wageningen University and Research Centre. She is presently VP of the Dutch biotechnology Association. Her scientific interests are on microalgae strain improvement, cultivation and scale up.



Marc BUEVINK

has 23 years' experience in fermentation & cell culture and worked the first years in research lab at UMC. 6 years at New Brunswick as bioreactors specialist, after that moved to IKS Biotech equipment's and become CEO at Infors Benelux. In 2013 he founded Biostream for manufacturing bioreactors.



Marcella DE SOUZA

holds a PhD in Biochemical Processes and is currently a project manager at Ghent University. She has experience in the area of Biotechnology, working mainly on enzymatic hydrolysis of lignocellulosic and microalgal biomasses and microalgae cultivation.



Victor POZZOBON

is a research engineer with a background in fluid dynamics and CFD. His research initiatives mainly deals with the complex interactions between light and microalgae in the complex environment that is a photobioreactor.



Lucie VAN HAVER

is a chemistry engineer graduated from ESCOM (France) and has specialized on microalgae processes through her internships. She is actually responsible of industrial valorization for the GEPEA laboratory - AlgoSolis, part of the team Bioprocesses applied to microalgae at CAPACITES SAS.

VIDEO ON DEMAND

KETs for biomass pretreatment



CHAIRPERSON

Thomas HABAS is R&D Project Manager at ENGIE Lab CRIGEN. During his career in renewable energy production and green chemistry, Thomas has developed a broad vision of the sector, in particular on pretreatment, thermochemical conversion and energy production from biomass.



Lionel Danos

has in excess of 25 years of experience in the extrusion of biomass & cellulose based products. He has a Master of Science in Pulp and Paper Engineering. With a background of Process Manager of Cellulose & Pulp department, and later of Project Manager, he is now Market Manager Green Industries in Clextal.



André HEERES

is currently working at the company Syncom (The Netherlands) and professor at The Hanze University of Applied Sciences (The Netherlands) He is active in (thermo)chemical conversion of biomass towards chemical intermediates.



Julie MAILLOT

is technologist in the Renewables business group of Axens, promoting its solutions for the production of advanced biofuels & biochemicals. She is dedicated to Futurol™ Technology that converts lignocellulosic biomass into 2nd generation bioethanol through enzymatic conversion and fermentation.



Jean-Charles MOTTE

is the head of the dry processes at IMPROVE. In 10 years, he managed many R&D projects related to dry processing of cereal, pulse and byproducts.



Fabien MAJCHRZAK

is the Technical Director of Maguin, in charge of Process Expertise and R&D. He is graduated from Ecole Centrale of Paris and held several positions in the Sugar Industry, from process and energy expertise to management.

VIDEO ON DEMAND

KETs for lignin valorization



CHAIRPERSON

Sergio MASTROIANNI works in Solvay as Innovation Leader, managing scouting projects in disruptive and sustainable chemistry. He's been working in R&I for 20 years in different chemical companies and positions. He has a PhD in organic metallic chemistry and catalysis from the Imperial College of London.



Florent HEROGUEL

is co-founder and COO at Bloom Biorenewables, aiming to make biomass a true alternative to petroleum. Prior to this, he was scientist at EPFL after obtaining his PhD from ETH Zürich and a Master degree at ENS de Lyon.



Sami-Pekka RANTANEN

Sami-Pekka has Bachelor of Science degree (Oulu School of Engineering) & degree in marketing. He has served pulp and paper industry in sales organization of chemical solution providers. As Sales Director he's introducing MetGen's enzymatic solutions & biomass valorization technologies to various industries.



Kerstin THIELE

works as scientist and project manager at Fraunhofer CBP in the group of Chemical Processes since 2017. She studied Chemistry at the University Halle-Wittenberg. Her PhD thesis is currently being made in the field of technical chemistry and catalysis at the University of Leipzig.



Karolien VANBROEKHOVEN

is research manager at VITO in sustainable chemistry. Her focus areas of R&D are biobased economy & sustainable process development. The last years she mainly managed technologies in electrochemistry & bioprocesses. She is the manager of the lignin to aromatics horizon in the shared research centre Biorizon.



Rob VERLINDEN

has an MSc in Chemical Engineering from Eindhoven University of Technology and a PhD in biotechnology from the University of Wolverhampton. He's currently Senior Process Technologist at BPF where he works on biomass valorisation.

VIDEO ON DEMAND

KETs to enzymatic catalysis and processes associated with biotechnology



CHAIRPERSON

Rob ONDERWATER is the scientific leader of the biotechnology department of Materia Nova. He obtained a PhD in Chemistry from the VU in Amsterdam (The Netherlands) and has 25 years of research experience in toxicology, ADME, enzymology and microbiology at various research institutes and companies.



Morad CHADNI

PhD. After a PhD in process engineering and sustainable development from Université de Technologie de Compiègne, he joined the URD ABI (Agro Biotechnologies Industrielles) in 2019 as a researcher in process engineering. His main research interest focus on separation process.



Philippe GABANT

has a PhD in Molecular Biology (Université Libre de Bruxelles -ULB). He was involved as inventor in the development of a portfolio of genetic selection patented technologies. He's co-founder & CSO of Syngulon, a startup focusing on genetic innovations to improve the control of microbial population using bacteriocins.



Juan JIMENEZ

leads the production processes of engineered proteins as Senior Protein Engineer at Protera Biosciences. He holds a title in Biochemistry from the University of Chile and a Ph.D. in Microbiology and Immunology from the University of Illinois-Chicago.



Alexandre ZANGHELLINI

is a co-founder & CEO of Arzeda. He leads Arzeda's corporate strategy. He's one of the inventors of Arzeda's synthetic biology platform for novel enzyme and metabolic pathway design. Before founding Arzeda, he held positions in research and development both in academia and industry (Collectis, NASDAQ: CLLS).



Fredy Wsbaldo Baron Nunez

Fredy Wsbaldo Baron Nunez has a bachelor's degree in chemical engineering (Industrial Univ. of Santander, Colombia) and a master's Degree in process, energy and environmental systems engineering (Technische Universität Berlin). He's now doing his PhD research at the Institute of Interfacial Process Engineering and Plasma Technology (Univ. of Stuttgart) in the field of downstream processing of microbial glycolipids.

VIDEO ON DEMAND

KETs for ecoextraction



CHAIRPERSON

Nicolas TETARD is a Chemical Engineer, currently working as Sales Manager at Tournaire since 2016. With more than 10 years of international experience in the search for industrial solutions for his clients, he benefits from the unique knowhow developed by Tournaire in the field of natural treatment.



Farid CHEMAT

is a full Professor of Chemistry at Avignon University, Director of GREEN Extraction Team (innovative techniques, alternative solvents, and original procedures for green extraction of natural products). He is nominated as High Cited Researcher HCR in 2018 and 2019.



Alexander NOVITSKIY

has a PhD in clean chemistry from the University of Nottingham, UK for his work with Martyn Poliakoff on supercritical fluids as a replacement for hazardous solvents. He then spent over 8 years in financial industry before starting Nova Extraction with his co-founder Sergey.



Rémi PRZYBYLSKI

Rémi Przybylski worked 7 years for the valorization of slaughterhouse by-products in Lille University and Laval University (Canada). As R&D manager of Bioval Océan Indien, he does research in bioconversion of tropical by-products into natural and high-added value products for cosmetic and agro-industries.



Dr. Marilena RADOIU

(Chartered Chemist, Member of the Royal Society for Chemistry) is an expert in the development of microwave-assisted technologies with applications to chemical synthesis, biomass extraction, plasma.



Alain VALLAGEAS

is an engineer, graduated from INPG, IAE and ICG. He has 43 years of experience in the design, negotiation and implementation of contracts of industrial equipment. Founder in 2006, Chairman & CEO of CELSIUS, design & manufacturing company of process equipment for fine chemicals, pharmaceuticals and cosmetics.

VIDEO ON DEMAND

Application of KETs



CHAIRPERSON

Dr. Fabien DESWARTE is L'Oréal's Sustainable Innovation Manager. He has over 15 years of experience in the area of green chemistry and biorefining and has worked in a variety of roles in academia, government and industry.



Pratik DESAI

PhD is a chemical engineer- Inventor/ Co-inventor for PMX-technologies, leads strategy & techno-commercial operations. Noted techno-management consultant in MENA. Lead technologist for grants (value£15.82Mn), consulted 65+ companies. Winner/ Finalist for several awards.



Alessandro GUZZONE

obtained a degree in process engineering (Technical Univ. Vienna) & chemical engineering (Politecnico di Milano). He joined Vogelbusch in 2002 and worked as a technologist for DSP of bioprocess plants focusing on alcohol distillation, rectification, dehydration & evaporation plants.



Jérôme LE NÔTRE

holds a PhD in Chemistry and specialised his work on industrial projects converting biomass into speciality and commodity chemicals. After 6 years at Wageningen University and the Food&Biobased Research Institute, he joined PIVERT in 2014 from which he is today the R&D Manager.



Benoit MOREAU

biochemist, has a PhD from Gembloux AgroBioTech and post-doctorate from AgroSup Montpellier & Cognis. He's head of the unit « green chemistry & biobased products » at Condorcet, working on the valorisation of Bio-industrial by-products into molecules with high added value.

VIDEO ON DEMAND

KETs for process control, optimization and modelling



CHAIRPERSON

Prof.dr.ir. Luuk van der WIELEN holds a MSc degree in Chemical Engineering (Twente University) and a PhD degree (Delft University of Technology - TUD). Since February 2017, he is Director of the Bernal Institute at the University of Limerick and also Distinguished Professor for Biobased Economy of TUD.



Ludovic HENIN

DigitalProductsManager@Boccard. He has 15 years of experience in the engineering field for the food industries. Real digital addict, he has also developed, aside his various positions, strong competencies in software engineering for the web and the cloud particularly.



Philippe LEURENT

is a business developer at ProSim. He plays key responsibilities in sales and client account management, networking & communication on ProSim's solutions in process simulation. He's graduated in chemical engineering from the IFP school and the ENSIACET.



Alex SMITH

joined CPI in 2014 as an experienced chemical engineer with expertise in modelling & simulation. As Head of Process Safety & Engineering he is now responsible for engineering and modelling project delivery alongside the ongoing development of CPI's chemical engineering capability.



Karel DE WINTER

Dr. Ir. Karel De Winter is Head of Technology Development at the Bio Base Europe Pilot Plant. He holds a master's degree in applied bio engineering sciences and a PhD in applied Biological Sciences. Previously, he was leading a number of industrial biotech projects and project leader for a number of EU-Projects.

VIDEO ON DEMAND

KETs for DSP



CHAIRPERSON

Ludo DIELS Dr. in chemistry & biotechnology, is Senior Advisor for the Flemish Institute for Technological Research (VITO) in Belgium. He managed the Environment & Process Technology Business Unit and responsible for the transition toward sustainable chemistry and clean technology.



Jean-Sébastien BIZOT

is the managing director of Flottweg France. He is a Chemical engineer and own an international BtoB sales degree. During his 13-year experience in centrifugation technologies, he specialized and developed a great expertise in protein field separation, mainly vegetal and biomass.



Olivier DUPUIS

is the technical director of Extractis. With 30 years of expertise in processes development and setting-up of technical pathway, he has joined Extractis 24 years ago and is highly skilled in plant fractionation technologies.



Yohann Le Guennec

is a chemical engineer with a PhD in chemical engineering thermodynamics. Since 2019 he is Project Manager at Ypso-Facto, participating in the improvement of biochemical and pharmaceuticals industrial processes all over the world thanks to numerical models developed on purpose



Jacqueline PANAROTTO

graduated as chemical engineer by the University of Rio Grande do Sul. She worked as a process engineer - petroleum and petrochemistry - at Petrobras and is currently sales manager at Buss-SMS-Canzler.



Tomasz WOLAK

joined ST Equipment and Technology to reinforce Business Development team with his experience in Food and Feed business. He has been leading Operational Excellence improvement programs at Glencore Agriculture as well as managing project execution at Desmet Ballestra.

VIDEO ON DEMAND

KETs for wood biorefinery



CHAIRPERSON

Dr Ian Archer, PhD in chemistry (Imperial College), is Technical Director at IBioIC, directing the technical strategy of the Centre. His background is in synthetic organic chemistry & chemical process development. Previously he worked as Head of Process Development at Ingenza, responsible for all aspects of bioprocess development.



Dr. Alex BERG

graduated from Hamburg University. He was in charge of the development of a new pulping & bleaching process with organic solvents, protected as Acetocell Process & scaled up in Germany. Since 1994, he is the Executive Director of the "Unidad de Desarrollo Tecnológico" in the University of Concepción (Chile).



Jérémy BOUCHER

has a Master's degree in engineering in the field of pulp and paper (Grenoble INP-Pagora). He then made a PhD about the simultaneous production of pulp and bioethanol in a biorefinery. He has worked as research engineer in Fibre Excellence since 2015, working on the development of bioproducts.



Marie CHAUVÉ

has a Master's degree in chemical Engineering (ENSIC) and a PhD in biotechnology for enzymatic hydrolysis of cellulose for bioethanol production (Grenoble University). She spent 3,5 years at Solvay's Brazilian research center and is currently research manager at Eurodia Industrie.



Dr. Hans HEERES

has a PhD in chemical engineering (Univ. of Groningen). Researcher at BTG, his main expertise & work field is in the recovery and production of valuable chemicals and products from biomass derived solids & liquids, and the chemical/physical analysis of intermediates, building blocks and final products.



Patrice MANGIN

PhD, eng. INPG, is director of the Innovations Institute in Ecomaterials, Ecoproducts and Ecoenergy, bio-economy/bioenergy industry chair at UQTR, and CEO of BioEnergy La Tuque. Author of over 300 articles, he received many awards, including fellowships and gold medals.

optimus
INSTRUMENTS

Quality instruments for the best performance

info@optimus-instruments.com
Tel : +33 (0)9 75 44 84 13



büchiglasuster
switzerland

Reactor systems
Pilot plants
Distillation
Nutsch Filters



Autoclaves and pressure reactors
Hydrogenation
Polymerisation
Catalyst research
Material research
Reactor systems



VTA

Whipped and Thin Film
Evaporators
Vacuum distillation
Laboratory
Pilots



H>W>S> Labortechnik

Laboratory instruments and components made of glass and plastic, reactor systems as well as laboratory electronics



huber

-125°C ... +425°C
High precision thermoregulation
Chillers, recirculating coolers
Bath and thermostats



bionet

Lab & Pilot bioreactors
Tangential Flow filtration
and software for upstream
and Downstream bioprocess



New!

[www.](http://www.bioeconomie-grandest.fr)

www.bioeconomie-grandest.fr
www.bioeconomie-hautsdefrance.fr

THE OFFICIAL
BIOECONOMY PORTALS

Grand Est
ALSACE CHAMPAGNE-ARDENNE LORRAINE
L'Europe s'invente chez nous

Région Hauts-de-France

led by **IAR**



TAMI
INDUSTRIES

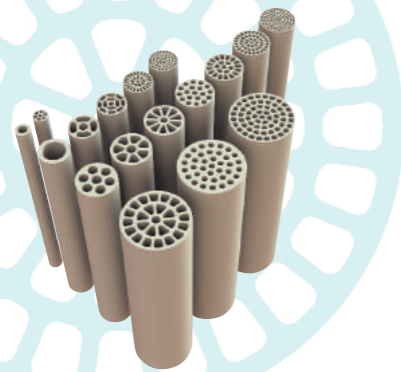
Advanced ceramic filtration

TUBULAR CERAMIC MEMBRANES
There is no better way to filter!

Advantages

- < 90 bars
- < 350°C
- pH 0-14
- Extended working life
- Solvent resistant
- Environment friendly

Fine Ultrafiltration,
Ultrafiltration
& Microfiltration
Cut off : From 1.4 µm
to 1 Kg/mol



ISOFLUX™ INSIDE CÉRAM™ INSIDE DisRAM™ filTanium

TAMI Industries S.A.S.
26111 Nyons Cedex - France
T. +33 (0) 4 75 26 47 69
tami-info@tami-industries.com
Discover the products of TAMI INDUSTRIES on www.tami-industries.com

SIVA
Advanced filtration unit
Expert in membranes technologies!

CUSTOM-SIZED FILTRATION UNIT

- SPECIFICATIONS
- PROCESS VALIDATION
- ENGINEERING
- MANUFACTURING
- START UP
- OPTIMIZATION
- POST SELLS SERVICE



CROSSFLOW FILTRATION ADVANCED OXIDATION ELECTROLYSIS

SIVA
26111 Nyons Cedex - France
T. +33 (0) 4 75 27 09 47
info@siva-unit.com
Discover the products of SIVA on www.siva-unit.com

TAILOR-MADE EQUIPMENT

INNOVATIVE SOLUTIONS

ENGINEERING

PILOT HALL

Tournaire Équipement offers optimized and competitive solutions for processing natural raw materials.

Your **tailor-made solution** is our standard.

WWW.TOURNAIRE.FR TOURNAIRE ÉQUIPEMENT SAS

SINCE 1833
70, route de la Paoute - Le Plan - CS 71004 - 06131 Grasse Cedex France
Tel. +33 (0)493 09 34 34 - Fax +33 (0)493 09 34 00 - equipement@tournaire.fr

TOURNAIRE
Produces the best, protects the most

Exhibitors & Sponsors' profile

PLATINIUM



Genopole, France's leading biocluster in the Paris Region, accommodates, accompanies and connects companies and laboratories in all fields of biotechnologies. A pioneer in synthetic biology, Genopole is increasingly attracting researchers and industrials active in that field and the progress being made is enabling a large range of industrial applications.

www.genopole.fr



The University of Lille is one of the French key players in research in bioeconomy (chemistry, agri-food and health/cosmetology). It has forged academic and industrial links at the national and international levels, with a renowned expertise together with exceptional facilities and infrastructures.

www.univ-lille.fr

GOLD



Axens is providing a complete range of solutions for the conversion of oil & biomass to cleaner fuels, the production and purification of major petrochemical intermediates as well as all of natural gas' treatment and conversion options.

www.axens.net



ARD is a R&D company offering development and industrial services in the fields of plant extraction, green chemistry, cellulosic biomass, industrial biotechnology and bioenergies.

www.a-r-d.fr



Dunkerque Promotion is the economic development agency of the Dunkirk region. Our mission is to help companies to set up and expand. We are supporting the techno-hub Euraénergie that aims at fostering energy and circular economy businesses. On March 10, Dunkirk will welcome the Bioket Innovation Tour. The focus will be on second generation biofuels.

www.dunkerquepromotion.org



OPTIMUS instruments is a specialist of Reactor & distillation systems for chemical industry – from lab R&D, through pilot to small production scale : BUCHIGLAS, HUBER, VTA, HWS, VACUUBRAND, SYSTAG, HEIDOLPH.

www.optimus.be

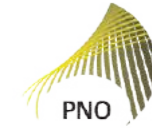
Exhibitors & Sponsors' profile

GOLD



PIVERT is a SME of 35 employees, created in 2012 & located in Compiègne France with a 4,2 M€ turnover. Our technological platform (6000m²) offers facilities for the development of chemical and biotechnological pilot scale processes for biobased chemistry.

www.sas-pivert.com



PNO Consultants is a European innovation consultancy company with 30 years of experience in 7 countries. Besides perfectly handling the complete innovation cycle, PNO has developed a strong expertise in bioeconomy

www.pnoconsultants.com



Lanolines Stella is a world key player in the refining of lanolin. Its activity now extends to the high purification of oils and fats through a new toll manufacturing service with a versatile and flexible molecular distillation unit.

www.lanolin-stella.com



TAMI INDUSTRIES is one of the world leaders in ceramic membranes manufacturing for crossflow filtration in liquids. SIVA develops & manufactures custom-size units in crossflow filtration from MicroFiltration to Reverse Osmosis for all industries.

www.tami-industries.com

www.siva-unit.com



Expert in the processing of natural raw materials, Tournaire offers turnkey units, offering high performance, and which are tailor-made to suit the specific needs of each client.

www.tournaire.fr



Funded by the BBI JU under H2020 program, VALUEMAG proposes a revolutionary technology for the microalgae industry to produce and purify high-value biomolecules in an affordable and environmentally-friendly manner.

www.valuemag.eu



LIPES is dedicated to bringing the first market replication of greener and healthier fatty acids. The objective is to create high purity bio-based intermediates and end products from vegetable oils and fats.

www.lipes.eu

Exhibitors & Sponsors' profile

SILVER



EURODIA Group is specialized in the design and construction of purification processes in agro-food, hydrometallurgy, specialty chemicals and bio-chemicals industries.

www.eurodia.com



Since January 1st of 2020, Chimex rebranded as Novéal develops and guarantees exclusive high performance ingredient to satisfy the beauty needs of consumers around the world.

www.madeinchimex.com



Novasep's industrial solutions offer high performance technologies & purification processes for biomass derivatives, fermentation and chemical commodities.

www.novasep.com



VITO develops cleantech technologies that tackle today's societal challenges. We create new biobased value chains and develop technologies for process intensification. VITO is your R&D partner!

www.vito.be

BRONZE



Bio Base Europe Pilot Plant: An independent state-of-the-art pilot and demonstration facility for process development, scale-up and custom manufacturing of bio-based products and processes.

www.bbeu.org



Bio4Products is a multi-company collaboration to demonstrate a pyrolysis-based biorefinery concept, creating sustainable products and materials from pyrolysis oil.

www.bio4products.eu



Biorea, Agrial group, relies on its innovative & patented technology of closed air-lift bioreactor for its new factory (taylor-made production) and sales of R&D lab equipment.

www.biorea.fr



Biostream is a manufacturer of a large range of customized and standard fermenters & bioreactors. Our vision is to provide a total solution with the best innovation and a lot of flexibility.

www.biostream-international.com



Public pilot facility for scaling up biobased processes, using e.g. pretreatment, hydrolysis, fermentation, downstream processing.

www.bpf.eu

Exhibitors & Sponsors' profile

BRONZE



Clextral's twin screw co-rotating extruders are efficient and continuous chemical reactors to perform a wide range of lignocellulosic biomass treatments.

www.clextral.com



De Dietrich Process Systems is the leading global provider of Engineered Systems. We supply solutions for the plant based, chemical and pharmaceuticals industries worldwide.

www.dedietrich-thermique.fr



Experts in plant biorefinery since 1984 specialized in extraction and fractionation of plant biomass for developing and producing new extracts, actives or ingredients.

www.extractis.com



IBISBA is an EU-distributed R&D infrastructure integrating biofoundry operations into end-to-end bioprocess development, to deliver proof of concepts and prototypes.

www.ibisba.eu



LEBAS is specialized in the design & the construction of industrial production units. Our expertises include process, utilities, automation & supervision, electricity & instrumentation, building, LEBAS is an EPCC/EPCM contractor.

www.lebas-technologies.com



CPI acts as a catalyst bringing together academia, businesses, government and investors to translate bright ideas and research into the marketplace.

www.uk-cpi.com



Specialized Engineering & General Contractor serving the agro-industry with particular focus on sugar, biofuels, bio-chemicals as well as energy efficiency.

www.dsengineers.com



We combine biology and engineering Fraunhofer IGB develops processes and technologies for health, sustainable chemistry, and the environment – from laboratory to pilot scale.

www.igb.fraunhofer.de



IPSB, a process engineering company involved in sugar production, white biotechnologies and biomass valorization, at your service to design your tailored project.

www.ipsb.fr

Exhibitor's & Sponsors profile

BRONZE



m2p-labs microbioreactors for screening, bioprocess development & automated microfermentation; user can increase the number & information content of microbial experiments.

www.m2p-labs.com



ProSim is a major European process engineering software company delivering process simulation software and consulting services to the processing industries worldwide.

www.prosim.net



Syngulon is a synthetic biology startup developing original genetic technologies using bacteriocins. They are ribosomally-produced, genetically encoded antimicrobial peptides produced by a wide variety of microorganisms.

www.syngulon.com



The University of Reims Champagne-Ardenne conducts high-level research with socio-economic actors and aims at producing tomorrow's discoveries and innovations. It is part of the Federative Research Structure, FRS Condorcet.

www.univ-reims.fr



Carnot 3BCAR is a French structured R&D network, offering its competencies for companies' innovation in the field of biomass valorization with Bioenergy, Biobased molecules & materials.

www.3bcar.fr



Pall Corporation designs and supplies a wide range of Filtration and Separation technologies to eliminate solid and liquid contaminants from fluids.

www.pall.com



Protera is producing next-generation clean label ingredients by using a proprietary AI-based technology that allows the design of new functional proteins.

www.proterabio.com



TWB is an expert in conducting public/private collaborative R&D projects, from biosciences to bioproduction. TWB has set up high-tech platforms to support the projects.

www.toulouse-white-biotechnology.com



As world's leading Designer & Builder of innovative lab-scale, pilot, demonstration & small modular production plants, Zeton helps its customers bring their processes from lab to market, faster, with less risk and lower cost.

www.zeton.com

Innovation Tours: Lanolines Stella

Lanolines Stella is a world key player in the refining of lanoline products. Its clients are among the most prestigious actors in the cosmetics and pharmaceutical sectors.

Always at the forefront of the most efficient purification technologies, Lanolines Stella now extends its activity to the high-performance purification of vegetable and animal oils and fats.



Discover Stella's facilities on the VOD section



STELLA
LANOLINES

TOLL MOLECULAR DISTILLATION

FROM LABORATORY TESTING TO FULL INDUSTRIAL SCALE-UP

Always at the forefront of the most efficient purification technologies, Lanolines Stella now extends its activity to the high-performance purification of vegetable and animal oils, fats and waxes. In the frame of its diversification strategy, Lanolines Stella now offers toll-manufacturing / processing services via short-path and molecular distillations.

Meet us on our virtual booth
Let's talk about your project !

COSMETICS

PHARMACEUTICALS

TECHNICAL APPLICATIONS

LAB & TECHNOLOGY PLATFORM

EXPERTISE DEVELOPMENT

Innovation Tours: Dunkirk's area

The port of Dunkirk, 3rd port in France, is an industrial platform that is pioneering transition and is one of the French Government's call for tenders Innovating Territories, a national scheme to promote a more sustainable economic development.

Among the industries present on the port, we will focus the visit on:

- Van Robayes / Pierre d'Arras
- Mon Gobelet en Lin
- Pôle d'Excellence Régional Lin
- Université du Littoral Côte d'Opal



Discover Dunkirk's area
on the VOD section

Innovation Tours: SAS Pivert

PIVERT is an innovative SME performing industrialisation of agricultural resources valorisation processes. It offers 3 service proposals meeting the « Time to Market » challenge and speeding up the whole innovation process, therefore avoiding the need for heavy investment in medium sized equipment and allowing business opportunities at minimal cost:

- Research & Innovation
- From Scale-up to pre-series production
- Technological hosting



Discover Pivert facilities
on the VOD section



Dunkirk labelled « Innovative Territory »
Total investments : €288 million expected over 5 years

LIVE THE TRANSITION IN DUNKIRK

#bioeconomy #low carbon industry #industrial ecology #renewables #cleantechs

VISIT US AT BOOTH#

c.gaillard@dunkerquepromotion.org
www.dunkerquepromotion.org

SAS PIVERT

Let innovation grow,
from field to market

Come and visit us

Workshop: LIPES

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.

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.

The LIPES approach replaces current thermal hydrolysis and saponification production routes, instead using a new enzyme-based, environmentally friendly alternative.

Using this approach makes the process far more resource efficient, saving at least 45% water, 70% enzymes and 80% energy over current approaches

Overview
Yann RAOUL – OLEON

Process Chemistry. Enzyme deactivation in continuous processes
Sherly RUSLI – Technical University of Berlin

Enzyme development for vegetable oil hydrolysis
Aelig ROBIN – Biocatalysts

Demo Plant design
Patrick JOBST – STC Engineering

Enzymatic – LCA KPIs
Pieter STRUELENS – OLEON

End products overview
Judith J VAN GORP – DSM

LIFE INTEGRATED PROCESS for ENZYMATIC SPLITTING of TRIGLYCERIDES

Summary

LIPES is dedicated to bringing to market **the first replication of enzymatic hydrolysis of vegetable oils** leading to greener and healthier fatty acids

The LIPES approach replaces current thermal hydrolysis and saponification production routes using a **new environmentally friendly alternative**

This approach will make the process far more resource efficient, **saving at least 45% water, 70% enzymes and 80% energy**

Objectives

SCALE-UP to PRE-INDUSTRIAL LEVEL
of a new environmentally friendly alternative to the traditional and current splitting routes of triglyceride producing free fatty acids and glycerol

ENZYMATICALLY PRODUCED
The use of enzymatically produced fatty acids and intermediates that can be used in a wider range of application

LOWER ENVIRONMENTAL IMPACT
This new oil splitting process targets a minimum saving of 45% water consumption, 70% enzymes and 80% energy consumption

Expected impacts

STRENGTHENED COMPETITIVENESS
of the EU oleochemicals industry

COST- EFFECTIVE ENZYMATIC PATHWAY
in comparison with conventional processes

NEW HIGHER QUALITY PRODUCTS
Low trans fatty acids for food
New grades of dimer acids
New or alternative polyester grade

Consortium

oleon
DSM
STC
TU Technische Universität Berlin
BIOCATALYSTS

Type of Action: IA - Demo
Feedstock: Plant oils
Start date: 01.09.16
End date: 31.12.21
BBI JU funding: 4.3 m€
Agreement N°: 720743

Project coordination/contact: **Oleon NV (Belgium)** info: yann.raoul@oleon.com

Workshop: IBISBA

IBISBA WITHIN THE GLOBAL CONTEXT OF BIOFOUNDRIES AND ACCELERATED END-TO-END BIOPROCESS DEVELOPMENT

14:00	Welcome and Introduction Dr Nic LINDLEY – Agency for Science, Technology and Research – A*Star (Singapore)
14:10	Primer on biofoundries Dr Paul FREEMONT – Imperial College London (United Kingdom)
14:40	An industrial biofoundry Dr Sunil CHANDRAN – Amyris (USA)
15:00	IBISBA: a pan-European infrastructure to support industrial biotechnology Dr Michael O'DONNOHUE – INRAE (France)
15:10	Driving IBISBA's biofoundry operations using knowledge management and integration Pr Merja PENTTILA – VTT (Finland)
15:30	Scaling-up or making industrial sense of biofoundry operations in IBISBA Dr Katja PATZSCH – Fraunhofer IGB (Germany)
15:50	<i>Coffee break</i>
16:10	Roundtable: biofoundries in the wider biotech innovation picture Dr Paul FREEMONT – Imperial College London (United Kingdom) Sunil CHANDRAN – Amyris (USA) Olivier ROLLAND – TWB (France) Katja PATZSCH – Fraunhofer IGB (Germany) Vitor Martins DOS SANTOS – Wageningen University & Research (The Netherlands)



Workshop: VALUEMAG

BLUE BIOECONOMY – VALUABLE PRODUCTS FROM ALGAE USING INNOVATION

Welcome

Pr. Evangelos HRISTOFOU – National Technical University of Athens NTUA (Greece)

Valuemag: an overview

Dr Angelo FERRARO - National Technical University of Athens NTUA (Greece)

The circular economy applied to valuable products from algae

Dr Antonio MOLINO – ENEA (Italy)

Valuemag based business development opportunities in the pharam/cosmetic sectors

Dr Panagiotis ZOUMBOULAKIS – Theracell (United Kingdom)

Exploitation of Valuemag results

Habib AMRANI – PNO Consultants (France)

Coffee break

Invited expert speakers in the ecosystem of blue bio-economy will present their most recent experiences and provide a platform for exchange of ideas and form collaborations

Closing remarks



/valuemag



@Value_Mag



VALUEMAG

valuemag.eu

PARTNERS

The VALUEMAG technology is based on the use of magnetic nanoparticles and a soft magnetic steel cone, issue of technologic engineering research, to cultivate microalgae and to purify the high-value products resulting from their metabolism. The technology has already been tested at a small scale providing promising results.

The project is totally self-sustaining, eco-friendly and will provide socio-economic benefits to society at large. The economic benefits are also associated with a dramatic reduction in microalgae production costs, allowing this technology to become a competitive durable alternative in the current market. Social benefits will arise from the development of new and innovative biomass production plants by supporting new job creation and outside investments in local European communities.

Funded by the Bio-Based Industries Joint Undertaking under the European Union's Horizon 2020 program, VALUEMAG project develops new magnetic cultivation and extraction techniques for microalgae. The revolutionary technology behind the process offers an innovative and eco-friendly solution that will significantly reduce the associated costs, and, thus, build more efficient microalgae-based bio-refinery systems.



This project has received funding from the Bio Based Industries Joint Undertaking under the European Union's Horizon 2020 research and innovation under grant agreement No. 745695

Workshop: CARNOT 3BCAR

PHENOLIC ACID: FROM RESEARCH TO MARKET

Welcome and introduction by the Carnot 3BCAR network

Workshop co-chaired by :

Hélène ROUX-de-BALMANN – CNRS Université de Toulouse (France)

Jacky VANDEPUTTE – IAR the French Bioeconomy Cluster (France)

Diana GARCIA-BERNET – INRAE division science for Food, Bioproducts and Waste engineering (France)

Talks : Overview on phenolic acids properties, applications and promising trends

Florent ALLAIS – URD ABI – AgroParisTech (France)

Luc SAULNIER – INRAE division of Science for Food, Bioproducts and Waste Engineering (France)

Round table: Ferulic acid case study:

1) Market pull vs tech push?

2) European sourcing to fulfill domestic market demand?

Sébastien CAJOT – CELABOR (Belgium)

Florence LUTIN – Eurodia Industries (France)

Stephan VERDIER – Solvay Aroma Performance GBU (France)

Régis MARCHAND – SEPPIC – Air Liquide Healthcare Speciality Ingredients (France)

Elise ODINOT – Oléoinnov (France)

Concluding remarks



Chimex rebrands as

novéal

INGREDIENTS FOR BEAUTY

Novéal develops and guarantees exclusive, high performance ingredients to satisfy the beauty needs of consumers around the world.



We innovate with **green chemistry** and **biotechnologies** by developing new natural active ingredients through enzymatic catalysis, plant cells culture and fermentation.



Start-up village



Alganelle is a biotech company specialized in microalgae synthetic biology for bioinspired innovations and disruptive developments of proprietary products and R&D services.

www.alganelle.com



Founded in 2016, BioC3 has developed a proof of concept for the microbial production of rare and phosphorylated sugars using an exclusive and patented technology.

www.bioc3.com



WASTE IS THE RESSOURCE: BIOTHOT offers turnkey services to convert your wasted biomass into valuable and marketable products



Bloom's efficiency makes biomass a true alternative to petroleum by providing sustainable and cost competitive materials to markets such as fragrances, plastics or textiles.

www.bloombiorenewables.com



POWERING A SUSTAINABLE FUTURE

Through multi-specialist integrated offers, we deliver ever more inventive and sustainable solutions to our industrial clients, always aiming at preserving the planet.

www.axens.net



We have developed an AI-based software platform that accelerates R&D and allows you to develop formulations, materials and processes with 30% to 90% fewer experiments.

www.chemintelligence.com



D'INNOV is an Engineering company specialised in products conception in textiles, materials and metals.

www.d-innov.fr



EV Biotech creates microbial production platforms for high-value chemicals & proteins using computational modelling & microorganisms to provide effective bio-based alternatives.

www.evbio.tech



GuaTecs will produce guayule latex. Farmers will diversify their production. Europe will increase its independency. Glove producers will have safer and cozier products.

Start-up village



iMEAN is a startup providing bioinformatic services for biotechnology companies. We design efficient industrial microbes using mathematical modelling.

www.imean-biotech.com



Lixea is an Imperial College London spin-out company developing an innovative biomass fractionation process using low-cost ionic liquids.

www.lixea.co



Teamcat Solutions supports actors of renewable chemical area, more particularly in catalysis by the incorporation of high-throughput technologies in their R&D procedures.

www.teamcat-solutions.com



Water Knight is offering VoDCa, a vortex cavitation reactor. VoDCa creates cavitation without a restriction; is free from clogging & erosion; & has been commercially applied.

www.waterknight.com



We are a company specialized in the development, production and commercialization of microbial biopesticides and biostimulants for agriculture from a proprietary collection.

www.xtrembiotech.com



ZYMOPTIQ transforms enzymatic activity measurement. Our microplate relies on microsensors to easily obtain robust and sensitive enzyme tests at high throughput



Zymvol designs, develops and is working on application of molecular modeling software to accelerate enzyme discovery and optimization.

www.zymvol.com



To know everything about **bioeconomy** on a **French, European and international** scale...

YOUR new essential media:
BIOECONOMY NEWS
by IAR, the French Bioeconomy Cluster



 www.bioeconomy-news.com

 [@bioeco_news](https://twitter.com/bioeco_news)



www.iar-pole.com

CONTACT LOUIS TIERS
 +33 (0)6 16 11 82 16
tiers@iar-pole.com

ACCESSING **ECONOMIC, TECHNOLOGICAL AND BUSINESS INSIGHT** IN THE BIOECONOMY

IAR COMPETITIVE INTELLIGENCE
STRATEGIC STUDIES

OVER **10 YEARS OF EXPERTISE** BIOMASS, FEED, FOOD, MATERIALS, CHEMISTRY, BIOTECH, ENERGY

Expertise Responsiveness Network

 **BIOMASS SUPPLY**

 **TECHNOLOGIES & PROCESSES**

 **MARKETS & PRODUCTS**

THEY TRUST US













www.iar-pole.com



Stay connected and make the buzz
#BIOKETDigital

BIOKET

SAVE THE DATE

MARCH 2022

FRANCE

organized by


 THE FRENCH BIOECONOMY CLUSTER

Stay tuned and get more info
www.bioket.eu
info@bioket.eu



www.bioket.eu

Follow us



#BIOKETDigital