

BIOKET

The global conference dedicated to
PROCESSES AND TECHNOLOGIES
APPLIED TO BIOMASS

MARCH 15-16-17, 2022
LILLE, FRANCE

SHOWGUIDE

2022

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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.

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



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Innovation et Développement économique
Trois-Rivières



GOLD



Unfold innovation,
from field to chemicals



SILVER




BRONZE



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1L, 3L



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800L**



PILOT
**1m³, 2m³,
8m³, 10m³**



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**100m³, 180m³,
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FOR IMPACT**

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INSTITUTE OF SCIENCE
AND TECHNOLOGY **LIST**

CHROMATOGRAPHY DEVELOPMENT FOR BIOMASS PRODUCTS

**Purification process,
from lab to industrial**



**THANKS TO NOVASEP
IN-HOUSE PROCESS SIMULATION**

-  Explore a wider range of solutions
-  Speed up process development

novasep
passion & smart processes

EDITO

2022 marks a special year for #BIOKET, since your world conference dedicated to processes and technologies applied to biomass, is organized by Bioeconomy For Change (B4C), ex IAR, this year.

This change of name assures more effectively the meaning of our action. On a daily basis, we take action to make the bioeconomy a positive change for everyone and in the long term. Four pillars are the basis of our new brand: Citizens, Competitiveness, Climate and Connection to create a collective and profitable dynamic for the actors of the bioeconomy. The themes explored by #BIOKET are fully in line with this approach by providing sustainable solutions that meet these issues and these major challenges of tomorrow.

After the success of its two first editions in 2018 (Strasbourg) and 2021 (online) which gathered each 300+ delegates from all over the world, #BIOKET is back this year in Lille with high ambition to boost once again the emergence of innovative projects and business partnerships.

You are more than 350 delegates for this new edition, 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 #BIOKET 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.

#BIOKET is offering you lots of opportunities to meet your tomorrows partners such as networking breaks and dinner or the pre-scheduled B2B meetings.

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



BIOKET

The Global conference dedicated to Processes and Technologies Applied to Biomass

At the time of industry 4.0, circular economy and the constant optimisation of production processes, Key Enabling Technologies constitute an essential stake for industrial sectors.

Biomass is a wonderful resource that can be converted in a wide range of high added products: biobased chemicals, materials, food products and ingredients, energy...

However, the adaptation and optimisation of technologies and transformation processes to fully valorise all biomass fractions is a real challenge. At the time of Industry 4.0, Key Enabling Technologies (KETs) underpin the shift towards a greener and more sustainable economy. They play a key role in the modernisation of the industrial base while fostering the development of future industries.

In this context BIOKET, aims to contribute to the rise of key enabling technologies in the bioeconomy sector.

www.bioket.eu | info@bioket.eu

Follow us

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 BIOKET Bioeconomy Key Enabling Technologies platform



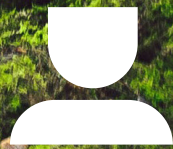


BIOECONOMY FOR CHANGE

NETWORK & EXPERTISE



CLIMATE



CITIZENS



COMPETITIVENESS



CONNECTION

FIND US ON STAND 28

CHANGE WITHOUT REINVENTING THE WHEEL...

Conscious of the huge challenges ahead, we believe in new ways of producing, eating, getting about, building and taking care of our health. We believe in the latest practices that promote the bioeconomy and fuel its development across every market and sector supported by a circular model. We believe in food that nourishes sustainable projects. We believe in materials that encourage sustainable building. We believe in biofuels to replace fossil fuels. We believe in all the innovations we have at our disposal that take care of us as much as they do the planet. Because we believe in a much better future, we also believe the bioeconomy is there to support this change...

AND THAT CAN CHANGE EVERYTHING.

AN ECOSYSTEM DESIGNED FOR COLLECTIVE ACTION



Promote
your actions



Inform
your decisions



Grow your
network



Bring your
innovations to life

THE NETWORK IN FIGURES

500

members
committed to change

350

projects
funded

€2.5

billion in
investment

11

European projects
backed in 2021

85

events
organised in 2021

Bioeconomy For Change (formerly IAR) is the leading network for the bioeconomy in France, in Europe and globally. With a team of 35 specialists and an ecosystem of 500 members, we work collectively from upstream agriculture activities through to the commercialisation of finished products. Be part of the change. **Join us.**

bioeconomyforchange.eu



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PROGRAMME AT A GLANCE

MARCH 15

10h00 - 12h30: Plenary session - KETs to unlock the potential of algae for a thriving European blue bioeconomy

13h00 - 18h00: Innovation Tours
• STELLA
• SAS PIVERT
• LESAFFRE

14h00 - 17h00: Pre-scheduled B2B meetings

14h00 - 14h45: Start-up pitches - session 1

14h45 - 17h15: The Circular Bio-based Europe Joint Undertaking (CBE JU) to fund projects advancing competitive circular bio-based industries in Europe

17h15 - 18h00: Start-up pitches - session 2

18h00 - 19h30: Welcome reception

MARCH 16

8h30 - 10h00: Pre-scheduled B2B meetings

10h00 - 12h30: Plenary session - Digital Biofoundries, a game changer for the Industry (sponsored by Genopole)

14h00 - 18h30: Pre-scheduled B2B meetings

14h00 - 15h45: Breakout sessions
• KETs for ecoextraction & ecosynthesis processes
• KETs to produce High Added Value Molecules
• The scaling up journey of KETs

16h30 - 18h15: Breakout sessions
• KETs for a circular bioeconomy
• KETs for purification processes
• The biotech KETs

18h30 - 19h30: « Cheese & Wine » Cocktail (sponsored by Eurodia)

20h00 - 23h00: Networking dinner

MARCH 17

8h30 - 9h30: Pre-scheduled B2B meetings

9h30 - 11h00: Plenary session - KETs and strategies to reduce the fossil fuel dependence of the aviation and its connected professions (sponsored by Leaf)

11h30 - 13h00: Pre-scheduled B2B meetings

11h30 - 13h00: Breakout sessions
• Biomass balance approach: Renewable resources for high performance and low carbon emissions
• KETs to produce bioenergy
• The biocatalysis KETs

14h00 - 17h00: Workshops
• Physico-chemical pre-treatments of biomass: State of play and applications (sponsored by Carnot 3BCAR)
• Creating Value from Waste. Capturing Carbon from Industrial Emissions to produce Sustainable Fuels & Chemicals (sponsored by LanzaTech)
• Lignocellulosic sustainable biorefining processes and technologies for high value-added products (sponsored by IDE Trois-Rivières)



DETAILED PROGRAMME

MARCH 15

9h15-10h00:	Registration & participant's welcome
10h00 - 12h30: Rotterdam 1-2	<p>Plenary session - KETs to unlock the potential of algae for a thriving European blue bioeconomy</p> <p><i>Chaired by Jean-Paul CADORET – EABA/Algama</i></p> <ul style="list-style-type: none"> • State of the art of KET to cultivation and processing of microalgae Prof. Dr. Maria BARBOSA - AlgaeParc / Wageningen University and Research (WUR) • Technologies to develop Microalgae based new functionalities for Health applications Olivier LEPINE - Algosource • Microphyt SCALE - first of its kind industrial platform towards sustainable microalgae-based solutions Vicent USACHE- Microphyt • CO2 to alternative proteins and oils through hybrid vertical microalgae farming Diego GRUMBACH – Solmeya
12h30 – 14h00:	Networking Lunch
13h00 – 18h00:	Innovation Tours: <i>STELLA - PIVERT - LESAFFRE</i>
14h00 - 17h00:	Pre-scheduled B2B meetings
14h00 - 14h45:	Start-up pitches - session 1
14h45 - 17h15: Rotterdam 1-2	<p>The circular bio-based Europe Joint Undertaking (CBE) to fund projects advancing competitive circular bio-based industries in Europe</p> <ul style="list-style-type: none"> • The Circular Bio-based Europe Joint Undertaking (CBE JU) Philippe MENGAL - CBE-JU • Funding your project in France Christophe LUGUEL - B4C - Bioeconomy For Change • Microphyt example Vincent USACHE - Microphyt • Fibenol example Karl PEEBO – Fibenol • What makes a great (biorefinery) technology? Matti HEIKKILÄ - Metgen
17h15 - 18h00:	Start-up pitches - session 2
18h00 - 19h30:	Welcome reception



DETAILED PROGRAMME

MARCH 16

8h00 – 8h30:	Registration & participant's welcome
8h30 – 9h50:	Pre-scheduled B2B meetings
10h00 – 12h30: Eurotop	<p>Plenary -Digital Biofoundries, a game changer for the Industry (sponsored by Genopole)</p> <p><i>Chaired by Fiona MISCHEL - Synbiobeta</i></p> <p>General welcome</p> <ul style="list-style-type: none"> • Christophe RUPP-DAHLEM - B4C - Bioeconomy For Change Frédéric MOTTE - Région Hauts-de-France • Genopole, innovation for life sciences Christophe LANNEAU - Genopole • Presentation of synthetic biology: review of the last news, trends, evolution and innovation on Synthetic Biology Fiona MISCHEL - Synbiobeta • Smart modelling platform for digital biofoundries: Fail fast to succeed earlier Rémi PEYRAUD - iMEAN <p>Panel discussion</p> <ul style="list-style-type: none"> • Christophe LANNEAU - Genopole • Massimo MERIGHI - saffre • Rémi PEYRAUD - iMEAN • Sean SIMPSON - LanzaTech <p>BIOKET 2023 announcements</p>
12h30 – 14h00:	Networking lunch
14h00 – 16h00:	Pre-scheduled B2B meetings

14h00 – 15h45:
Rotterdam 1-2

KETs for ecoextraction & ecosynthesis processes

Chaired by Florent ALLAIS – URD ABI

- **EcoXtract® : an Innovative, Efficient and Biobased Technology for the Extraction of Edible Oils, Plant-Based Proteins and Natural Ingredients**
Gabriel DUFOUR – EcoXtract
- **Ultrasonic Biorefining: A low energy, efficient process to separate fibrous biomass into high-value biochemicals**
Miranda LINDSAY-FLYNN - Bio-Sep
- **Development of high value products based on phycocyanin co-product extraction from Spirulina within SPIRALG project**
Maud BENOIT-LE GELEBART - Algaia
- **Is water moisture a poison or a solution to improve supercritical CO2 extraction of spent coffee grounds**
Alexandre VANDEPONSEELE – Savoie Mont Blanc University
- **Case Studies of Electrosynthesis and Electrodialysis processes in Product/ Process development of Biobased Products**
Irene ERDELMEIER - Innoverda

14h00 – 15h45:
Turin

KETs to produce High Added Value Molecules

Chaired by Fabien DESWARTE - L'Oréal

- **Shrubby everlasting cells: how to bring eco-innovation into skin moisturizing challenges**
Rémi LAVILLE – SEPPIC
- **Sustainable Fragrances & Flavours: should we stick to traditional production methods?**
Dmitry BACHIN - EV Biotech
- **Beads Impact Continuous Heated Mechanochemical Reactor for Greener Chemical Routes**
Remy NGUYEN – Deasyl
- **CSBR, Cashew shell bio refineries**
Pierluigi FERRI - Elmira Industrial Supplies
- **Environmental benign production of ingredients of industrial relevance**
Dr. Lucie PFALTZGRAFF - GreenTech Innovation Center, Luxembourg Institute of Science and Technology (LIST)

14h00 – 15h45:
Liege 1-2

The scaling up journey of KETs

Chaired by Luuk VAN DER WIELEN – Bernal Institute

- **Scaling up the Electrochemical production of biobased chemicals**
Frederik DE BRUYN - VITO
- **Reinforcement Learning in new bioprocess design**
Albert MESTRE - INTEMIC
- **Modeling of a krill oil extraction factory: from laboratory results to cost price prediction using an innovative methodology**
Yohann LE GUENNEC - Ypso-Facto
- **Scaling up additive manufacturing of Cellulose-based materials in electrical insulation, automotive and shipbuilding industries**
Heli KANGAS - VTT
- **Seaweed biomass cultivation: from napkin sketch to mechanized harvesting**
Gediminas TAMOSAITIS - Metal Production

15h45 – 16h30:

Networking break

16h30 – 18h30:

Pre-scheduled B2B meetings

16h30 – 18h15:
Rotterdam 1-2

KETs for a circular bioeconomy

Chaired by Ludo DIELS – Antwerp University / VTO

- **Valuable protein recovery from animal processing by-products of rendering plants for different industrial applications**
Mayra LACRUZ - INESCOP
- **Biorizon bio-aromatics – Platform established, time for impact**
Paul KONST - TNO
- **WASTE2FUNC: Lactic acid and biosurfactants sourced from sustainable agricultural and industrial (food) WASTE feedstocks as novel FUNCTIONal ingredients for consumer products**
Sofie LODENS - Bio Base Europe Pilot Plant
- **Metha-HYn Project, development of integrated technologies at the service of circular bioeconomy**
Marine JUGE - ENGIE
- **Low temperature pre-treatment - opportunities for biogas production from biowaste and combined production of cellulose and lignin**
Friedrich STREFFER - Streffer Vv GmbH

 **DETAILED PROGRAMME**
MARCH 16

16h30 – 18h15:
Turin

KETs for purification processes

Chaired by Maria BARBOSA - Wageningen University & Research

- **Separation of Caproic and Caprylic Acid from a Maize Silage-Based Fermentation Broth**
Arne GRONGROFT - DBFZ
- **Latest Developments in Production Scale Centrifugal Partition Chromatography : Instrumentation and Applications for The Purification of Bioactive Ingredients**
Grégoire AUDDO - Gilson Purification
- **Use of pervaporation membranes in separation of aqueous fermentation broths**
Mark GRONNOW - BDC - Biorenewables Development Centre
- **How process modeling can enhance process design: chromatography development for biomass products**
Quentin SANLAVILLE - Novasep Process Solutions
- **Sustainable water management in biobased downstream processing**
Hank VLEEMING - Process Design Center (PDC)

16h30 – 18h15:
Liege 1-2

The biotech KETs

Chaired by Olivier ROLLAND - TWB

- **Improving heterologous protein production in yeast with automated massively parallel CRISPR genome editing**
Laura KLITTEN - Inscripta Inc
- **Accelerating scientific products claims through multi-causal in silico data analysis**
Lucie FRIEDLANDER - Eagle Genomics
Fabian GRANDKE - Eagle Genomics
- **Novel reactor prototype for pressurized gas fermentations**
Heleen DE WEVER - VITO
- **Enabling fast, clean, and affordable production of natural bioproducts through bioreactor innovations**
Kirsten STEINBUSCH - Delft Advanced Biofuels
- **Artificial promoters: Creating new genetic vocabulary for synthetic biology**
Sylvain JULIEN - e-ZYVEC

18h30 – 19h30:

« Cheese & Wine » cocktail – sponsored by Eurodia

20h30 – 23h00:

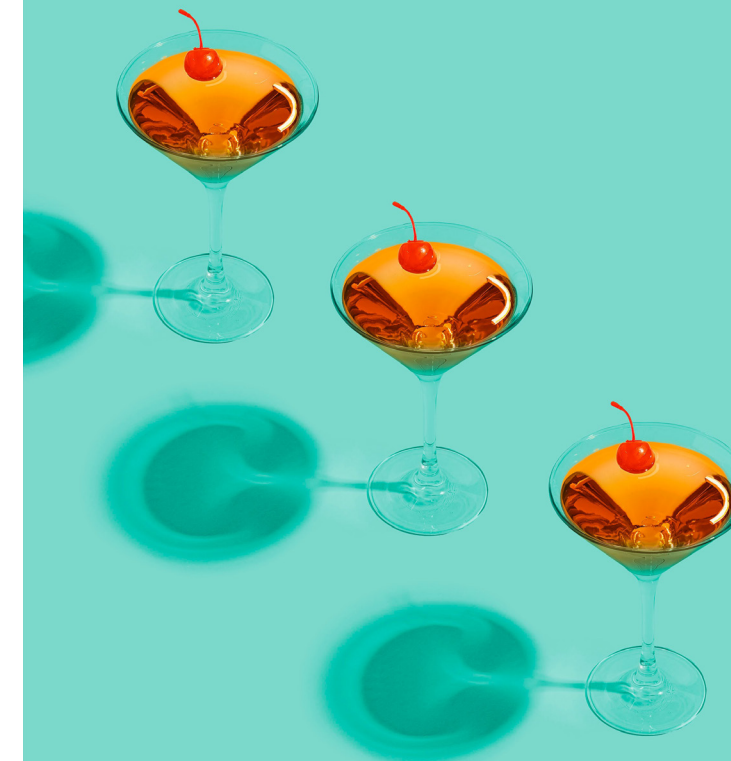
Networking dinner

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FOR BIOBASED CHEMISTRY**

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**EURODIA is delighted
to offer you a nice
« Cheese & Wine »
Cocktail.**

Join all the participants for an hour of informal
networking and discover some French
« art de vivre »

March 16th from 18h30 to 19h30

Exhibition Area - Lille Grand Palais

Networking Dinner

CCI Grand Lille - Palais de la Bourse

40 Place du Théâtre – 59800 Lille

How to get there?

Only 15 minutes by walk from
Lille Grand Palais



March 16th – from 20h00 to 23h00

Registration for the dinner was mandatory

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We innovate through **Green Chemistry** and **biotechnology** by developing **new natural active ingredients** through enzymatic catalysis, plant cell culture and fermentation.

DETAILED PROGRAMME

MARCH 17

8h00 - 8h30: Registration & participant's welcome

8h30 - 9h30: Pre-scheduled B2B meetings

9h30 - 11h00:
Rotterdam 1-2

Plenary - KETs and strategies to reduce the fossil fuel dependence of the aviation and its connected professions (sponsored by Leaf by Lesaffre)

Chaird by Xavier TYTELMAN – Starbu

- **Challenges and Perspectives of industrial fermentation: from Idea to Industry**
Marcelo AMARAL - Leaf by Lesaffre
- **How to build a sustainable aviation ? Target and levers in the energy field**
Xavier TYTELMAN - Aviation NXT

Panel discussion:

- Marcelo AMARAL - Leaf by Lesaffre
- Damien GAUDIN - Air France
- Geraldine PIC-PARIS - Neste
- Sjoerd RAIJMANS - SkyNRG
- Stéphane THION - TotalEnergies

11h00 - 11h30: Networking break

11h30 - 13h00: Pre-scheduled B2B meetings

DETAILED PROGRAMME

MARCH 17

11h30 – 13h00:
Rotterdam 1-2

Biomass balance approach: Renewable resources for high performance and low carbon emissions

Chaired by Astrid PALMIERI – BASF Italia

- **Ways towards a sustainable bio-economy**
Daniela THRAEN - Helmholtz Centre for Environmental Research GmbH (UFZ)
- **The mass balance methodology: an effective and sustainable way of using alternative feedstocks in production systems**
Adisa AZAPAGIC - The University of Manchester
- **Biomass Balance and Sustainable Development at BASF**
Thomas MAIREY - BASF France
- **Jallatte "J'Respect" shoes range, the first safety shoe 100% made of Biomass Balance-certified Isocyanate-terminated Polyurethane (ITPU)**
Stéphanie CADENE - Jallatte SAS

11h30 – 13h00:
Turin

KETs to produce bioenergy

Chaired by Markus WOLPERDINGER – Fraunhofer IGB

- **Maintaining Production Yield in Bioethanol Production**
Dominik STEINBERGER - PALL Corporation
- **Enabling circularity and sustainability**
Joris SPAAN - Yilkins
- **A new way of doing chemistry by combination of cold plasma and catalysis**
Vincent SIMONNEAU - ENERGO
- **Turning waste and CO₂ into methane through biological methanation**
Vincent GUERRE - Enosis Energies
- **HPTLC a valuable analytical partner for valuable results at various step of your bioenergetic project.**
Pierre-BERNARD SAVARY - Chromacim

DETAILED PROGRAMME

MARCH 17

11h30 – 13h00:
Cologne 1-2

The biocatalysis KETs

Chaired by Audrey ROBIC - Codexis

- **New biomanufacturing processes using the power of enzyme-based catalysts**
Jordi LOPEZ - EnginZyme AB
- **Harnessing Komagataella phaffii for recombinant protein production**
Claudia RINNOFNER - myBIOS
- **Unlock new biocatalysis - The unspecific peroxygenase enzyme panel**
Dr. Hannah B. Aminoverse
- **Integrate flow cytometry analyses in bioprocesses to improve the performance of microbial biocatalysts**
Delphine LESTRADE - TWB

13h00 - 14h00:

Networking Lunch

14h00 - 17h00
Turin

Workshops

Cologne 1-2

- **Physico-chemical pre-treatments of biomass: State of play and applications**
(sponsored by Carnot 3BCAR)
- **Creating Value from Waste. Capturing Carbon from Industrial Emissions to produce Sustainable Fuels & Chemicals**
(sponsored by LanzaTech)

Rotterdam 1-2

- **Lignocellulosic sustainable biorefining processes and technologies for high value-added products**
(sponsored by IDE Trois-Rivières)

CHAIRPERSONS & SPEAKERS

MARCH 15

Plenary:

KETs to unlock the potential of algae for a thriving European blue bioeconomy

MARCH 15



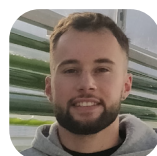
Chaired by: Jean-Paul CADORET – EABA/AlgamaFoods

Jean-Paul CADORET, PhD, is president at EABA and CSO of AlgamaFoods. Previously he was the managing director of the company Greensea. He's the author of more than 80 publications and 10 patents.



Prof. dr **Maria BARBOSA** is Professor in Microalgae Biotechnology

& Director of AlgaePARC at Wageningen University and Research Centre. She coordinates several large research programs covering the entire microalgae production chain.



Diego GRUMBACH is a biotech engineer from ENSTBB (France) & University of

Montréal (Canada). He's currently working at Solmeya to make sustainable food a reality through CO₂-fixating microalgae technology.



Olivier LEPINE is one of the founders and the Managing Director of AlgoSource. He

has a master degree in Physics & chemistry and a master degree from the National School of Petroleum (France). He has served in the energy industry during 7 years abroad before joining the microalgae sector in 2004.



Vincent USACHE is a life science engineer from AgroParisTech and holds an MBA.

He has 20 years of experience in the commercial and technical development of high value-added ingredients, carried out within multinational companies.

Conferences

The Circular Bio-based Europe Joint Undertaking (CBE JU) to fund projects advancing competitive circular bio-based industries in Europe



Chaired by: Christophe LUGUEL

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 Director Europe of IAR and also Vice Chair of BIC, Board and member of the governing board of BBI.



Matti HEIKKILÄ has a Biotech Engineering degree and an MBA with 17 years of experience

in bio-based industries. He is Chief Operating Officer at MetGen, driving innovation and growth of the company as a part of the external ecosystem.



Philippe MENGAL is the executive director of the CBE-JU, and previously from BBI-JU. Before

he held strategic managerial positions in bioeconomy businesses as CEO of 3 companies & Global R&D Director of a multinational company.



Karl PEEBO. Trained in fermentation sciences, one of the earliest employees in Fibenol. Karl is

the product manager with main focus on cellulosic sugars and lignin. Publicly funded projects are under his coordination in Fibenol



Vincent USACHE is a life science engineer from AgroParisTech and holds an MBA. He has 20 years of experience in the commercial and technical development of high value-added ingredients, carried out within multinational companies.

Start-up pitches

Animated by:



Pierre KERHASCOET is IBF's EU Project Manager. He joined IBF in May 2021 and he is working on the coordination of BioeconomyVentures – an EU project all about boosting private investments in the European bioeconomy.



Stéphane ROUSSEL, Partner at ECBF, has 10+ years of track record in VC investments and 25 years in the advanced materials & chemical industry. He founded & lead Rhodia and Solvay Ventures, achieving profitable exits & successful corporate-startup partnerships.

Plenary:

Digital Biofoundries, a game changer for the Industry (sponsored by Genopole)

 MARCH 16



Chaired by: Fiona MISCHEL – Synbiobeta

Fiona MISCHEL began her career as a science communicator, then editor in chief of SynBioBeta. She now serves as SynBioBeta's Director of International Outreach where she builds partnerships, community, and awareness, and expands the global synbio network.



Christophe LANNEAU is Research & Platforms dpt. director at

Genopole. Open-minded 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.



Massimo MERIGHI is Lesaffre's Head of Metabolic Engineering and Director

of Biofoundry. He worked at bioengineering companies (Ginkgo Bioworks, Glycosyn) in pathways engineering and industrial microbiology, and studied at Harvard.



Rémi PEYRAUD is CEO and cofounders of iMEAN, a startup launched in 2018.

He is a biochemist and got his PhD in 2011 at ETH Zürich. He conducted pioneer research at INRAE Toulouse France on modelling living organisms using systems biology approaches



Dr **Sean SIMPSON** obtained masters from the University of Nottingham and PhD from York

University. He is currently the founder and Chief Science Officer of LanzaTech. He's the author of over 20 publications and 200 patents.

Breakout session:

KETs for ecoextraction & Ecosynthesis processes

 MARCH 16



Chaired by: Florent ALLAIS – URD ABI - AgroParisTech

Florent ALLAIS, PhD, is the director of URD ABI – AgroParisTech. His research investigates the combined use of biotechnologies, green chemistry and downstream processing for the development and optimization of sustainable processes and high value-added products from biomass.



Dr Maud BENOIT-LE GELEBART is ALGAIA's services manager and partnership

developer. She is in charge of the management of private collaborations linked to the analyse and development of algae-based ingredients.



Gabriel DUFOUR is Global Business Development Manager, EcoXtract® at

Pennakem Europa. He has a MSc in Food, Agricultural & Life sciences and a MSc in Energy economics & sustainable development. He worked in the oil & protein industry and nutrition & health care industries.



Irene ERDELMEIER, Ph. D. in Organic Chemistry & Chemical Engineer, founded

INNOVERDA in 2017. Previously she worked as Head of Chemistry at Bioxytech, was project lead at L'Oréal, and co-founder & Director of Chemistry of Tetrahedron.



Miranda LINDSAY-FYNN is a cofounding investor & commercial director of Bio-Sep.

Entrepreneur with wide sector experience (industrial biotech, retail, digital technology), she's a graduate of Biological Sciences (Univ. of Edinburgh) and an MBA (London BS).



Alexandre VANDEPONSEELE is a 3rd year PhD degree focusing his research on

biomass valorization by innovative technologies at the EDYTEM Institute. He is working on the supercritical CO2 extraction of spent coffee grounds for lipids and polyphenols recovery.

Breakout session:

KETs to produce High Added Value Molecules

 MARCH 16



Chaired by: Fabien DESWARTE – L'Oréal

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.



Dmitry BACHIN defended his PhD in Plant Physiology and worked in IT. His experience

in biology and software development was a perfect match to work in industrial biotechnology, so joined EV Biotech.



Pierluigi FERRI is CEO at Elmira Industrial Supplies (2017). He has 10 years in sales

projects for bio materials for CASE, foams and composites. ExaPhen polyols and cardanol supply chain.



Rémi LAVILLE, PhD in Chemistry of Marine Natural Products, is a Chemical Engineer.

Since 2016 he is in charge of the Innovation & Development Team in Extraction & Plant Biotechnology at Biotechmarine, subsidiary of SEPPIC.



Rémi NGUYEN, PhD in molecular & supramolecular chemistry, entered as post-doctoral

researcher under the financial support of Deasyl at iCleHS lab (Paris Sciences & Lettres univ.) to develop continuous flow mechanochemical processes for green chemistry.



Dr. Lucie PFALTZGRAFF has ten years' experience working on bio-based

economy-related innovation support for leading consultancies in the field. She now facilitates collaborations between industry and LIST.

Breakout session:

The scaling-up journey of KETs

 MARCH 16



Chaired by: Luuk VAN DER WIELEN – Bernal Institute

Prof.dr.ir. Luuk A.M. van der WIELEN holds a MSc degree in Chemical Engineering (Twente University) and a PhD degree (DUT). Since 2017, he is Director of the Bernal Institute (University of Limerick) and Bernal Professor for Biosystems Engineering and Design.



Dr. ir. **Frederik De BRUYN** is Business Development Manager at the Unit of Sustainable

Chemistry at VITO. He focuses on setting up projects within the scope of circular bioeconomy and electrochemistry. He has a Master's degree in Bioscience Engineering (Ghent Univ.) and a PhD (Centre for Industrial Biotechnology and Biocatalysis).



Albert MESTRE is a Chemical engineer with a postgraduate degree in AI. His research is

focused on generative design of biochemical processes. He founded Intemic to offer this technology through a SaaS.



Dr. **Heli KANGAS** is Technology Manager at VTT Technical Research Centre of Finland.

She is the coordinator of EU H2020 SPIRE project NOVUM (novel manufacturing technologies for cellulose-based electrical insulation components).



Yohann LE GUENNEC is a french chemical engineer from ENSIC (Ecole

Nationale Supérieure des Industries Chimiques). He did a PhD in chemical engineering thermodynamics where he developed accurate phase equilibrium models currently used for optimal processes designs in companies such as Total



Gediminas TAMOSAITIS graduates in construction engineering. His

professional path led to several sales and engineering positions. Since 2012 he's the co-founder and CEO of the professional engineering company Metal Production.

Breakout session: KETs for a circular bioeconomy

 MARCH 16



Chaired by: Ludo DIELS – Antwerp University / VITO

Ludo Diels, Dr. in chemistry & biotechnology is professor emeritus at Antwerp University. Chair of the advisory structure of Processes4Planet & of the public-private-partnership A.SPIRE



Marine JUGE is deputy manager of the Biogas, Biomass & Waste Lab at ENGIE Lab CRIGEN.

She joined ENGIE in 2014 where she is involved in several R&D projects related to gasification of biomass and to anaerobic digestion.



Dr. **Paul KÖNST** has the position of Sr. Scientist at Dutch Research institute TNO and is Program

Manager of the Sugar Horizon of Shared Research Program Biorizon, which has the mission to enable commercial production of bio-aromatics.



Mayra LACRUZ works on bioeconomy projects at the Footwear

Innovation and Technology Center, INESCOP. She is a geological engineer, lecturer, consultant and specialist in sustainability and circular economy.



Dr. ing. **Sofie LODENS** holds a PhD in Bioscience Engineering. For 2 years she is working

as Project Acquisition Coordinator and coordinates several projects in the biobased economy/ industrial biotechnology such as WASTE2FUNC (BBI-JU), SECRETed (H2020) and FUCATIL (Moonshot Flanders).



Friedrich STREFFER, PhD in biophysical chemistry (TU Berlin), drives

as CTO the scale up of the LX-Process as well as its integration to different downstream processes. He is the author of more than 20 numerous scientific publications.

Breakout session: KETs for purification processes

 MARCH 16



Chaired by: Maria BARBOSA – AlgaeParc / Wageningen University & Research

Prof. dr Maria BARBOSA is Professor in Microalgae Biotechnology & Director of AlgaePARC at Wageningen University and Research Centre. She coordinates several large research programs covering the entire microalgae production chain.



Grégoire AUDDO has a Masters Degree in "Natural product purification & identification"

and an MBA. His career focused around the development of innovative extraction and purification techniques. He is now in charge of the purification platform at Gilson.



Arne GRÖNGRÖFT graduated in Energy and Environmental Engineering in 2008 at Hamburg

University of Technology. He joined DBFZ in the same year and is head of the working group on separation technologies and process design (currently 7 researchers) since 2011.



Mark GRONNOW holds a PhD from University of York Green Chemistry Centre. Research

interests are adding value to biomass & waste, sugar as a platform chemical & microwave pyrolysis. Mark is passionate about industrial collaboration and scale-up. He currently sits on RSC Industry & Technology Division Council.



Quentin SANLAVILLE is R&D engineer at Novasep, working on

industrial purification process developments. He has been involved in various projects related to resins and membranes with a focus on chromatography research at laboratory & pilot scale.



Hank VLEEMING holds a PhD in Chemical Engineering (TU Eindhoven)

and worked at IFP and Technip before he joined PDC in 1999. He leads a team of specialists in development, integration, and optimization of biobased & circular processes. He designed/evaluated 16 biorefining technologies.

Breakout session:

The biotech KETs

 MARCH 16



Chaired by: Olivier ROLLAND –Toulouse White Biotechnology

Olivier ROLLAND is Managing Director of TWB and has 10+ years in strategy, business & product development in the bioeconomy. He was Director, Sustainable Fuel Strategy at Boeing and also spent 8 years at Total where he managed the alliance with Amyris in synthetic biology.



Heleen DE WEEVER is Project Manager at VITO and leading VITO's activities on gas fermentations.

She currently coordinates the Horizon2020 project BioRECO2VER. She is (co)author of >90 peer-reviewed publications and inventor of 5 patent families.



Lucie FRIEDLANDER, has over 20 years of professional experience in R&D

and business development (public institutions, pharmaceutical industry). She's now extended Eagle Genomics activities and partnerships in Southern Europe & Belgium.



Fabian GRANDKE, PhD in bioinformatics (LMU Munich), has a broad background

in applied bioinformatics. He is the scientific face of Eagle Genomics. His passion for life sciences is complemented with a deep understanding of data science & technology.



Sylvain JULIEN, PhD in Life Sciences, has been a cancer researcher for 15 years with

>30 scientific publications. In 2013, he initiated the project to create e-Zyvec as an answer to a long-standing interest in valorization of scientific knowledge and transfer of technology. He is now managing the research & innovation activities of e-Zyvec.



Laura KLITTEN has worked in genetics, ncRNAs, molecular biology and new technologies in a

variety of industrial roles for the last 9 years. Dr. Klitten act as the scientific link between inscripta and partners. She earned her M.Sc and Ph.D degrees at the University of Copenhagen, Denmark



Kirsten STEINBUSCH is CTO at DAB and holds a PhD in Env. Biotechnology from

Wageningen University. She has 12 years' experience as executive in commercializing innovative biotechnology solutions and spon out two successful biotech start-ups.

Plenary:

KETs and strategies to reduce the fossil fuel dependence of the aviation and its connected professions (sponsored by Leaf)

 MARCH 17



Chaired by: Xavier TYTELMAN – Aviation NXT

Xavier TYTELMAN is a former crew member of the fleet air arm, now a consultant dedicated to sustainability in aviation.



Marcelo do AMARAL holds a PhD in Chemical engineering. He acquired 20 years

of experience in the bioethanol and green chemistry industries in many international companies. He was the CEO of Global Yeast and now leads Leaf by Lesaffre.



Damien GAUDIN, agricultural engineer, has been an Air France executive for

22 years. He graduated in air transport strategy from ENAC. He organized the «States of the Air» event & led the «Sustainable Aviation Observatory» project (2021).



Geraldine PIC-PARIS is working at Neste as a Key Account Manager for

EU, MEA and Africa within the Renewable Aviation team. She has a long history within the aviation industry working 18 years for Air Total and Total Renewables (solar and wind).



Sjoerd RAIJMANS is heading several early-stage projects which aim to develop

commercial-scale SAF production capacity. Next to that Sjoerd led several consulting projects whereby the SkyNRG team advices industry partners on SAF.



Stephane THION is leading Sustainable Aviation Fuels activities at TotalEnergies

since 2019. He has over 20 years extensive international experience developing sustainable and innovative renewable energy and chemical solutions.

Breakout session:

Biomass Balance approach: Renewable resources for high performance and low carbon emissions

 MARCH 17



Chaired by: Astrid PALMIERI – BASF Italia

Astrid PALMIERI is Senior Sustainability Community Manager for EMEA at BASF. She has 20 years of international business development and sustainability management experience in the chemical and energy sectors.



Adisa AZAPAGIC is Professor of Sustainable Chemical Engineering at the

University of Manchester. Her research interests include life cycle sustainability assessment, carbon footprinting, sustainable production and consumption and corporate sustainability



Stéphanie CADENE has 15 years' experience in marketing in the Luxury industry.

She is now leading the marketing and communication strategy for Jallatte in France, with the objective to develop the visibility and the desirability of the brand.



Thomas MAIREY has joined BASF in 2020, following the purchase of Solvay's Polyamide

activity. With 10 years of experience in communication and public affairs, he is now leading sustainability topics and customer relations.



Prof. **Daniela THRÄN** heads the Dept. of Bioenergy at the Helmholtz Centre

for Environmental Research (UFZ). She leads research projects in the field of bioenergy, bioeconomics & the spatial impact of renewable energies and developed the «Smart Bioenergy» approach.

Breakout session:

KETs to produce bioenergy

 MARCH 17



Chaired by: Markus WOLPERDINGER – Fraunhofer IGB

Markus WOLPERDINGER studied chemistry at the Ludwig-Maximilians-University of Munich and received his doctorate in physical chemistry on laser spectroscopy of biological systems. He is the director of the Fraunhofer IGB and has 25+ years of experience in various management positions in industry.



Pierre BERNARD-SAVARY is the founder of the Chromacim company as well as

the Thin Layer Chromatography Club and Chromacim. He belongs to several committees such as the French national association of separation sciences.



Vincent GUERRE, CEO of ENOSIS, is dedicated to making bioenergy a reality. Before

funding ENOSIS, he built a strong experience in the energy and gas industry as head of marketing & sales and CEO.



Vincent SIMONNEAU graduated from IFP School in 2004, he started

his career as process engineer for gas treatment technologies at PROSERNAT, and coordinated all gas treatment technologies activities at AXENS before joining ENERGO as a CEO in 2020.



Dominik STEINBERGER worked at the Max Planck Institute for Polymer Research

in the field of organic chemistry where he received his PhD in macromolecular chemistry. Since 2014 he is working for Pall in various roles of the technical department.



Joris SPAAN, Business Development at Yilkins, is a specialist in the

development and implementation of new business models in the bio-based economy with a special focus on biomass as primary material.

Breakout session:

The biocatalysis KETs

 MARCH 17



Chaired by: **Audrey ROBIC** 

Audrey ROBIC has Pharm D and PhD in Biotechnology. After several years as R&D Manager with a focus on Enzyme Technology and business development, she is now driving Codexis' growth in the European market with a focus on pharma, food, and animal nutrition.



Claudia RINNOFNER is the founder of the biotech company myBIOS. She earned

her PhD at Graz University of Technology (TUG) at the Institute of Molecular Biotechnology focusing on recombinant protein production.



Hannah BRAB studied Biotechnology at RWTH Aachen University. In 2020,

she obtained her PhD at Heinrich Heine University Düsseldorf with Professor Jörg Pietruszka, followed by post-doctoral studies. She has been working as a product specialist at Aminoverse B.V. since October 2021



Jordi LOPEZ joined EnginZyme in 2020 as Director of Business Development.

Chemical engineer and MBA, with 15+ years of international experience involving technical functions in process development (Saint-Gobain, Solvay) to roles in Innovation/Venture Capital, Marketing and Business development in Belgium and the USA.



Delphine LESTRADE works at TWB as head of cytometry service. She develops

and defines protocols for high throughput cytometry assays for identification and characterization of microorganisms in biocatalyser.



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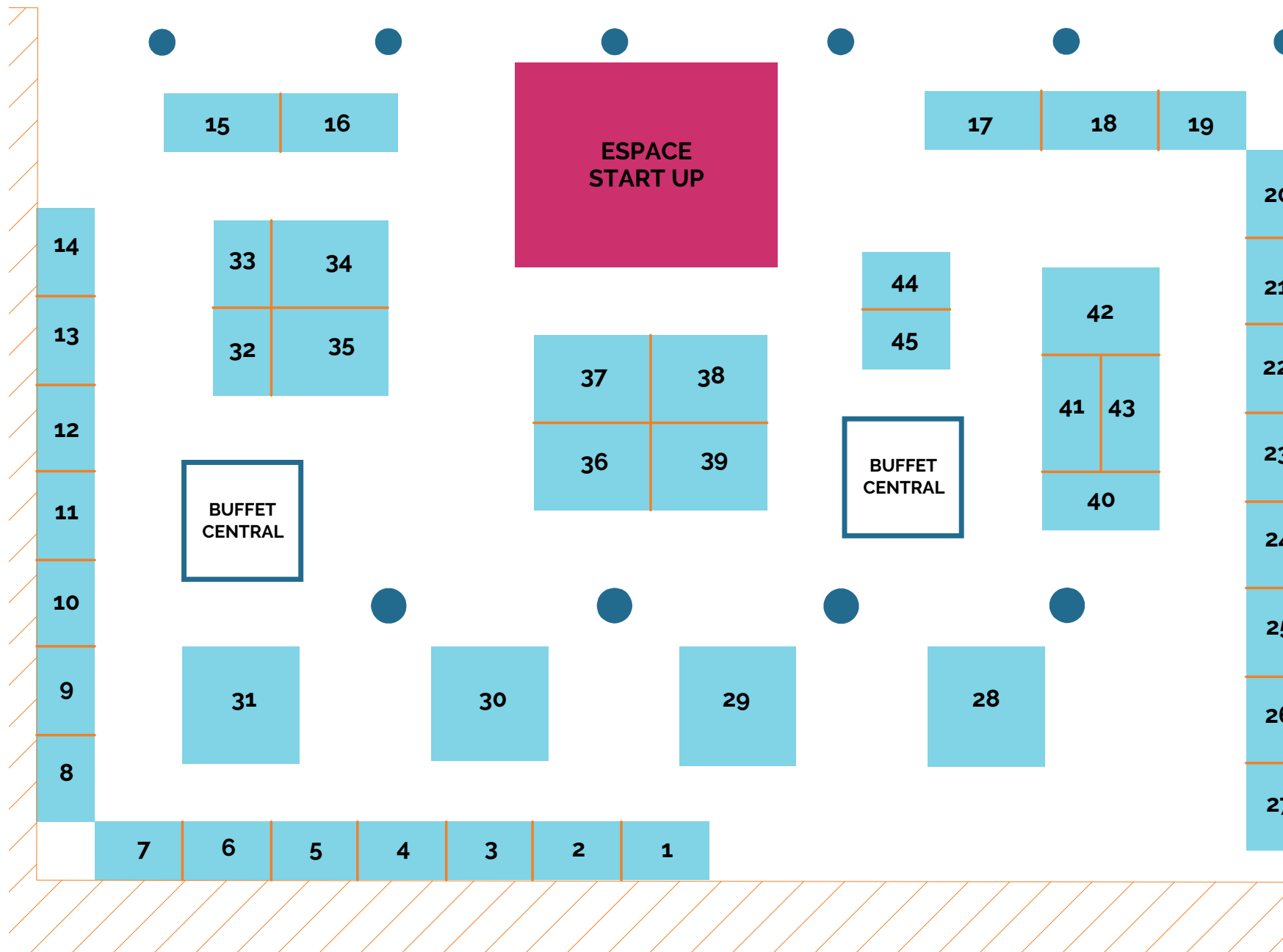
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EXHIBITION FLOORPLAN

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| 23 | BBEU - Bio Base Europe Pilot Plant | | |

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INNOVATION TOURS LESAFFRE



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As a science and technology company, Lesaffre is continually looking for new opportunities for innovation that will help our customers. To accelerate the development of innovative projects, we are able to draw on 570 R&D experts and three science-focused research platforms.

During the Innovation Tour, guided by our R&D experts, you will explore the infinite potential of microorganisms and 2 science-focused research platforms to accelerate the development of innovative projects.

- **A research platform focused on microbial diversity and the interactions of microorganisms** (yeasts, bacteria, phages, filamentous fungi, etc.) with a wide variety of substrates. Using this platform, we aim to optimize microorganism cultures, exploit them to the fullest and create an optimal environment. Lesaffre's expertise in fermentation and bioconversion processes lies at the heart of this platform. Our genetics, microbiology, enzymology, genomics, metabolomics, computational biology and bioinformatics researchers use cutting-edge equipment to ramp up research activities such as fermentation and robotized characterization tools.
- **A research platform focused on promoting the transformation of substrates. With expertise in innovative technologies such as autolysis, separation, purification, drying**, freeze-drying and encapsulation, we have developed process engineering that enables us to meet our customers' needs. These include various ferments (yeasts, bacteria and filamentous fungi), other relevant microorganisms and functional fractions, molecules and metabolites for a wide variety of applications.



Workshop:

Physico-chemical pre-treatment of plant biomass:
state of play and applications
(sponsored by Carnot 3BCAR)



March 17th, 2022

Organised by INRAE with contributions of academic and industrial stakeholders, this workshop aims at presenting the state of the art of the physico-chemical pre-treatments for overcoming recalcitrance of lignocellulosic biomass. Pretreatment is an essential step in deconstructing the biomass before conversion processes, making it more reactive to chemical and biological catalysts, but it remains an important challenge for industrial transposition.

Research advances

- Physico-chemical pre-treatments of biomass state-of-the-art, **Diania García-Bernet - Laboratoire de Biotechnologie de l'Environnement, INRAE**
- Twin screw extrusion a suitable technology for biomass deconstruction. Application example: New Pretreatment for second generation biofuel plants. **Virginie Vandenbossche, Toulouse-INP, Laboratoire de Chimie Agro-Industrielle, LCA, Université de Toulouse, INRAE**
- Pretreatment of miscanthus using choline chloride based deep eutectic solvents, **Pierre-Alann CAI - Laboratoire Réactions et Génie des Procédés, Université de Lorraine**

Industrial uses of physico-chemical pre-treatments of biomass

- Dry Vapocracking Treatment of lignocellulosic biomass: a new industrial process for biomass pretreatment **Frédéric Martel (Européenne de Biomasse)**
- Microwave technologies consulting **Marilena Radoiu (Microwave Technologies Consulting)**
- Physico-chemical pretreatment of lignin to produce bio-aromatic fractions for industrial application: from lab to pilot, **Roel Vleeschouwer - VITO**
- Twin-screw extrusion and drying technologies for industry **Lionel Danos - Clextal**

Organizers:

- Gabriel Paës and Caroline Rémond (FARE, Reims)
- Cécile Barron and Abdellatif Barakat (IATE, Montpellier)
- Diana Garcia-Bernet (LBE, Narbonne)
- Virginie Vandenbossche (LCA, Toulouse)
- Coraline Caultet (3BCAR, Paris)

Workshop:

Creating Value from Waste. Capturing
Carbon from Industrial Emissions to produce
Sustainable Fuels & Chemicals
(sponsored by LanzaTech)



March 17th, 2022

Workshop Agenda:

- Introduction to LanzaTech technology
Sean Simpson - LanzaTech
- The Renewable Carbon Initiative (RCI) Speeding up the transition from fossil carbon to renewable carbon for all organic chemicals and materials
Michael Carus - Nova Institute
- From Concept to Commercialization; scaling up LanzaTech technology in the Steel Industry
Wim Van der Stricht - ArcelorMittal
- From Technology to Market with CarbonSmart Plastics
Cedric Dever - L'Oreal
Patrick Pinenq - TotalEnergies
Babette Pettersen - LanzaTech
- From Waste Wood to Advanced Biofuels with Gasification and Gas Fermentation
Vincent Calleja - TH2Florent Bourgarel - GazoTech
- Industrial off-gases for Chemical Production
Michael-Helmut Kopf - Senior Research Manager at BASF

PANEL: "The Role of Recycled Carbon as a Key Enabling Technology for a Carbon Neutral Economy"

- Sean Simpson
- Michael Carus
- David VandeWiele
- Michael-Helmut Kopf
- Wim Van der Stricht
- Vincent Calleja



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Workshop:

Lignocellulosic sustainable biorefining processes and technologies for high value-added products (sponsored by IDE Trois Rivières)



March 17th, 2022

14h00	Introduction of the workshop by the Canadian commercial delegate (Embassy of Canada France)
14h05	Overview of the Canadian biobased industry and presentation of bioindustry clusters by Dr. Patrice MANGIN PhD
14h30	From the root to the top of the tree, Maximizing the use of the forest resource in Quebec-Canada by Jean-Philippe JACQUES and Delegation du Québec specialist (TBD) <ul style="list-style-type: none">• Presentation of the Quebec strategy for the biosourced economy and the positioning of the Mauricie region• Presentation of Innofibre's new Biobased Products HUB• New concept in recyclable and compostable packaging• The paper mill of the future - integrated biorefinery project
15h15	Coffee break
15h30	The Canadian Bio Economy leadership by Canadian specialist (TBD)
15h40	Integrating Canada into its Biobased value chain from Europe; the Neste approach
15h50	Gaspésie CleanTech Hub with their project of reducing the footprint of the major Canadian Cement Plant by Simon BARNABE, Ph. D.
16h00	Bioindustrial Canada (BIC), an AgSci partner for pre-commercial research for bioproducts technologies – A.J. (Sandy) MARSHALL
16h10	Round table
16h25	Closing remarks

START-UP VILLAGE



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BHSL's miniaturised Fluidised Bed Combustion Technology (100kW to 5MW thermal) allows the conversion of low value biomass such as manures, wastewater sludges, MBM and digestate into energy.



Biomed diagnoses heavy metals in soils and naturally removes them using plants so-called hyperaccumulative.



CSBR proposes a patented chemistry improving cashew-shell-oil's molecule. We have turned it into a rich bio-refinery of a variety of high-value monomers for manufacturing, pharma, fragrances and insect-attractants.



Bloom Biorenewables is at the forefront of the global transition to a circular bioeconomy. The company turns residue biomass into sustainable alternatives to petroleum for industries such as plastics, fragrances or fuels.



ENERGO is developing a totally new way of doing chemistry, based on the combination of cold plasma and catalysis allowing to generate products at desired rates and yields that are otherwise unattainable by conventional catalytic means.



Embion transforms biomass into highly functional and active ingredients for food, feed and cosmetics through its proprietary platform technology.



Promoting carbon neutrality and circular economy, ENOSIS designs and sells equipment recycling CO2 into sustainable methane, a substitute to natural gas



We're reshaping the textile industry with efficient dyeing processes and sustainable colors. We boost production capacities as we can dye 5x faster with 15x less energy and without using any petrochemicals.



Intemic is combining (bio)process simulation with artificial intelligence to build digital twins of new unit operations and democratize generative flowsheet design



Net-zero carbon livestock is our vision to climate crisis. We provide solutions to capture the livestock enteric fermentation methane in a sustainable circular economy.



We create microbial production platforms for high-value chemicals using cutting edge computational modelling technology to provide industry with effective production methods



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LYOPHITECH has developed and patented a new dynamic freeze-drying process. We offer R&D services and industrial lyophilization, working in strict anaerobic atmosphere.

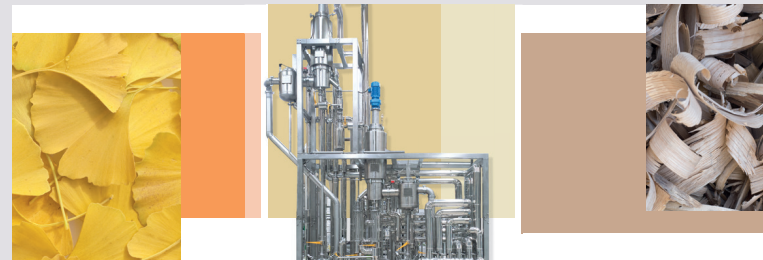


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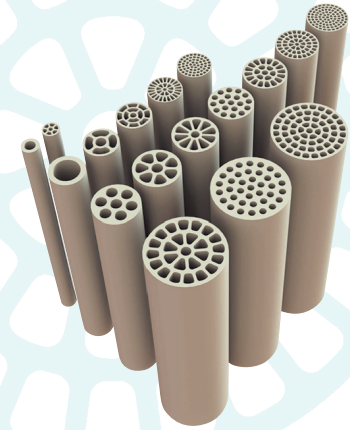


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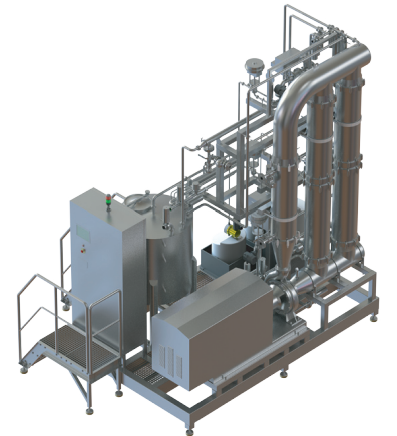
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IN THE HEART OF TOMORROW'S INDUSTRY 4.0, THE UNIVERSITY OF LILLE IS DEVELOPING INTERNATIONAL, INNOVATIVE, CUTTING-EDGE RESEARCH IN BIOECONOMY.

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

- 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

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.
- Socio-economic collaboration and strong links with industrial partners.
- Regional initiatives (e.g. Rev3 and Eura Industry Innov') and linkswith the regional technopole parks.

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, CPER projects, Chaire Industrielle Charles Viollette...

We have had numerous successes in industrial and fundamental research, including the construction of the first cross-border research unit BioEcoAgro, in association with the INRAE, the TERRA institute of the University of Liege (Belgium) and the UPJV (Amiens).

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 behaviors in Bioeconomy.

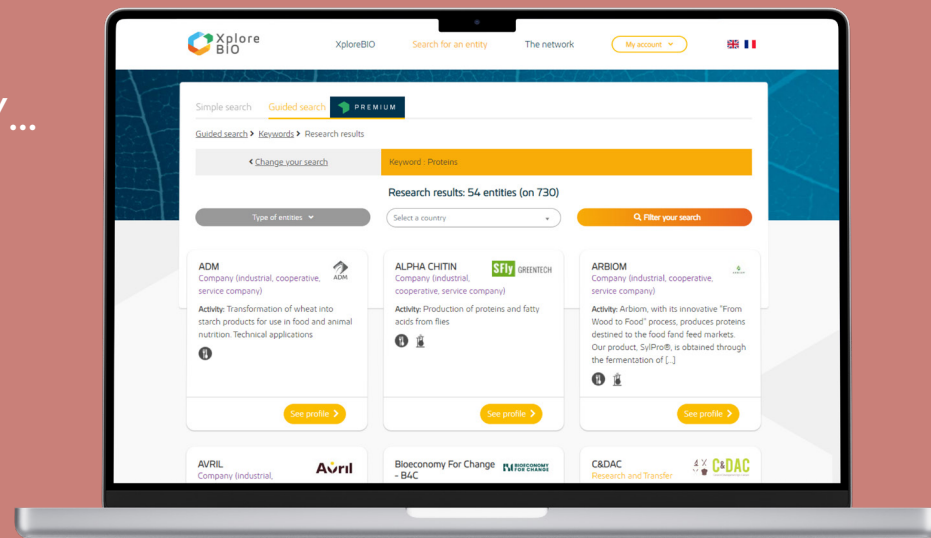
- The Biorefinery BIOREF Master's, an Erasmus Mundus program, is educating a new generation of interdisciplinary scientists in a renewed bioeconomy-based society (master-bioref.eu).



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