

BIOKET



The global conference dedicated to
PROCESSES AND TECHNOLOGIES APPLIED TO BIOMASS

Showguide 2018



Strasbourg,
France



March 6-8,
2018



Stay connected

WIFI: BIOKET

&

Spread the world: #BIOKET

Supported by

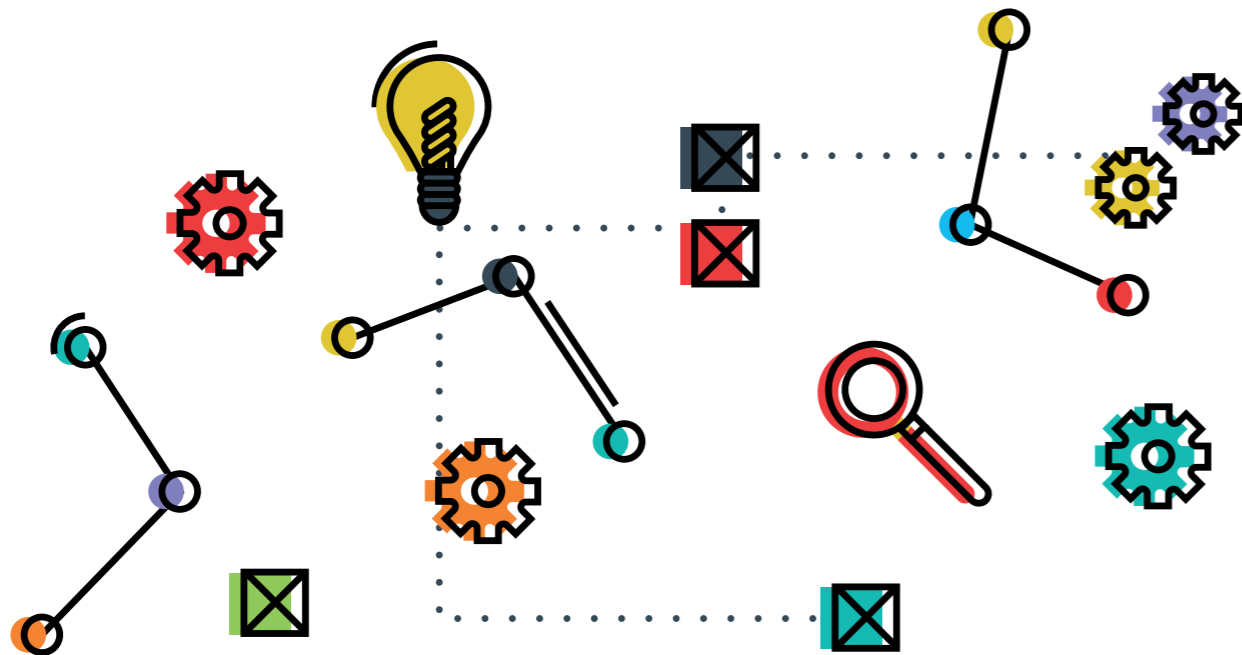


Sponsored by



Index

Sponsors & Exhibitors.....	4
Edito.....	5
About BIOKET.....	6
About IAR.....	6
Advisory Board.....	7
Your 3 days conference programme.....	8
March 6th Agenda.....	11
March 7th Agenda.....	12
Networking Dinner.....	16
March 8th Agenda.....	17
Chairmen & Speakers.....	20
Innovation Tours.....	29
Exhibition space.....	30
Sponsors' profile.....	33
Participants' list.....	39
Ask your team.....	42
Practical information.....	43



YPSO | **FACTO**[®]
Your Process Secured & Optimized

Cut development time and optimize your processes



We like to think out of the box...

CHALLENGE US!

Sponsorship

PLATINIUM



GOLD



SILVER



BRONZE



Exhibitors



EDITO

WELCOME AND THANK YOU FOR BEING PART OF BIOKET 2018

IAR – The French Bioeconomy Cluster – is delighted to welcome you to Strasbourg for this very first edition of **#BIOKET**, THE Global Conference dedicated to processes and technologies applied to biomass.

#BIOKET was born on the observation that most of the conferences in the biomass, bioeconomy and biotechnology fields are dedicated on end-users, markets and global trends. With **#BIOKET**, the ambition is to focus on Key Enabling Technologies (KETs) and processes.

You are more than 300 delegates for this first edition of **#BIOKET**, 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 learn, discover and network:

- Learn: through inspiring and targeted conferences featuring speakers from industry, research and technology organisations
- Discover: with more than 30 exhibitors which will be happy to meet you
- Network: take the opportunity of the breaks and the social evening to expand your network and build new

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

KEY HIGHLIGHTS

- BBI EU Project Information and Brokerage Event: meet your future project partners
- Overview of the KETs and roundtable on scaling up strategies during the opening plenary on Wednesday morning
- Conference cocktail (open to all) and dinner (it is still time to book!) on Wednesday evening
- Discussion on the next generation of biorefinery on Thursday afternoon, just before you leave

About BIOKET



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 turned in a wide range of products: biobased chemicals, and materials, food products and ingredients, energy... However, the adaptation and optimisation of technologies and transformation processes is a real challenge to fully valorise all biomass fractions. 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 entirely new industries. In this context BIOKET, the BIOeconomy 's Key Enabling Technologies conference, aims to contribute to the rise of key enabling technologies in the bioeconomy sector.

www.bioket.eu - info@bioket.eu

[@Bioketech](https://twitter.com/Bioketech) - [in](https://www.linkedin.com/company/bioket-strasbourg) Bioket Strasbourg

About IAR



IAR, your gateway to the French Bioeconomy

IAR is the French bioeconomy cluster. It brings together over 360 stakeholders from farmer cooperatives, research organisations and universities to venture capital firms, start-ups, SMEs and large industries, including end-users, around a common goal: the optimal use of renewable resources. IAR focuses on all dimensions of the bioeconomy: from feedstock production to its valorisation into food, industrial (bio-based chemicals and biobased materials) and energy (biofuels and biogas) applications. IAR supports the development of the bioeconomy in France and, more specifically, in the regions of Hauts-de-France and Grand Est.

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 €1.6 billion invested in 250 R&D collaborative projects!

www.iar-pole.com - contact@iar-pole.com - +33 (0)3 23 23 25 25

50-52 boulevard Brossolette 02000 Laon - FRANCE

[@PoleIAR](https://twitter.com/PoleIAR) - [in](https://www.linkedin.com/company/iar) IAR - Le pôle de la bioéconomie

Advisory Board



Dirk CARREZ
Executive Director

Biobased Industries Consortium (BIC)



Ludo DIELS
Research Leader

VITO



Franck DUMEIGNIL
Director of the Unit of Catalysis and Chemistry of Solid

UCCS – UMR CNRS



Sarah HOSKING
Biotech & Biosourcing Research Manager

Unilever



Michael KREL
Principal

Sofinnova Partners



Jean-Manuel MAS
Director

Axelera



Pierre MONSAN
Director

Toulouse White Biotechnology (TWB)



Carsten SIEDEN
Senior Vice President

BASF SE



Thierry STADLER
First Vice-Chairman
IAR – The French Bioeconomy Cluster



Niklas VON WEYMARN
Vice President Research
Mestä Group

YOUR 3 DAYS CONFERENCE PROGRAMME

MARCH 6 – BBI & BIOECONOMY'S EU PROJECT INFORMATION AND BROKERAGE EVENT

10:15 - 12:30	Plenary Session: Analysis and opportunities of Public-Private Partnerships and other European initiatives by PNO Consultants
12:00 - 14:00	Networking Lunch
14:00 - 17:30	B2B meetings sessions

Innovation Tours:

13:00 – 18:00 :

Two key players of the sector are welcoming the BIOKET's participants for an industrial site visit:

- DE DIETRICH Zinswiler's site
- TEREOS Marckolsheim's site

More information on page 29



Cocktail at the city Hall:

The Mayor of Strasbourg, Roland Ries, and the city are delighted to offer the BIOKET's participants a welcoming and pleasant cocktail on March 6th from 18:30 to 19:30 at the City Hall.

9 rue Brûlée 67000 Strasbourg // Tram B - Station Broglie

MARCH 7 – BIOKET CONFERENCE

09:00 – 11:30	Opening Plenary Session: Overview on KETs		
11:30 – 12:00	Networking Break		
12:00 – 13:00	Round Table: In house or outsourced what is your scaling up strategy?		
13:00 – 14:15	Networking Lunch		
14:15 – 15:35	Biotech processes parallel session 1: <i>New frontier for synthetic biology</i>	Physico-chemical processes parallel session 1: <i>Novel lignocellulosic biomass pretreatment and fractionation</i>	Thermochemical processes parallel session: <i>Thermochemical treatments of biomass</i>
15:35 – 16:15	Networking Break		
16:15 – 17:35	Biotech processes parallel session 2: <i>Bioreactors and advanced fermentation processes</i>	Physico-chemical processes parallel session 2: <i>Extraction and valorisation of non-cellulosic fractions of biomass</i>	Application processes parallel session: <i>Key enabling technologies to produce what?</i>
17:35 – 18:30	Cocktail (Cheese & Wine) by Eurodia		
19:30 – 22:30	Networking Dinner by Prosim		

MARCH 8 – BIOKET CONFERENCE

08:30 – 09:50	Biotech processes parallel session 3: <i>Novel downstream processes</i>	Physico-chemical processes parallel session 3: <i>Revisiting biobased production processes</i>
09:50 – 10:45	Networking Break	
10:45 – 12:15	Biotech processes parallel session 4: <i>Novel fermentation technologies to valorise gaseous feedstock</i>	Physico-chemical processes parallel session 4: <i>Novel physico-chemical processes</i>
12:15 – 13:30	Networking Lunch	
13:30 – 14:50	Biotech processes parallel session 5: <i>Innovative tools to optimise bio productions</i>	Physico-chemical processes parallel session 5: <i>Modelisation and scale-up derisking</i>
15:00 – 16:30	Closing Plenary: Next generation of biorefinery	



PNO CONSULTANTS

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

As the bioeconomy sector has been gaining importance globally, it has become one of PNO's focus areas too. PNO has an outstanding track record of bioeconomy-related grants.

Since 2015, PNO has secured more than 40 million EUR Bio-Based Industries (BBI) funding for its clients and has an overall budget of around 1,5 million EUR for delivering innovation services as project participation within BBI.

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 LATEST PROJECTS



-  filippo.martinelli@pnoconsultants.com
-  lyndsey.starr@pnoconsultants.com
-  arjen.vankampen@pnoconsultants.com
-  frederik.vandecasteele@pnoconsultants.com
-  barbara.bendaoud@pnoconsultants.com
-  jamel.bouzenzana@pnoconsultants.com
-  p.circelli@ciaotech.com

MARCH 6

BBI & BIOECONOMY'S EU PROJECT INFORMATION AND BROKERAGE EVENT

09:30 – 10:15	Registrations and Welcome of participants
10:15 – 12:30 Room: Curie	Plenary Session: Analysis and opportunities of Public-Private Partnerships and other European initiatives

Chairman: Filippo Giancarlo MARTINELLI- Consultant & GA Pipeline Manager – PNO Consultants (*Belgium*)

Welcome and opening words

Christophe LUGUEL – International Affairs Manager – IAR Cluster (*France*)

PNO will invite the guests of the session to follow together an hands-on approach to the specific opportunities at hand, focusing on de-risking capital investments and de-costing innovative operations while tackling the full scope of the specific challenges and expect impact at hand. More specifically:

Analyse specific call for projects available in 2018, with a special focus on BBI JU and LIFE
Filippo Giancarlo MARTINELLI- Consultant & GA Pipeline Manager – PNO Consultants (*Belgium*)

Clarification of the expectations of the BBI JU (European Commission / BioBased Industries Joint Undertaking) in the work program, alignment with societal challenges and new BBI SIRA
Philippe MENGAL – Executive Director - Bio-Based Industries Joint Undertaking (*Belgium*)

How to set up a successful EU proposal and secure the grant without committing one-self to deliver the impossible
Filippo GIANCARLO MARTINELLI – Consultant & GA Pipeline Manager – PNO Consultants (*Belgium*)

Showcasing a successful BBI Project – AgriChemWhey: An integrated biorefinery for the conversion of dairy side streams to high value bio-based chemicals.
Bill MORRISSEY – Procurement Manager – Glanbia (*Ireland*)

Key concept of the event is providing the right mixture of public information, in house expertise and concrete opportunities, building much beyond the classic concept of "info day", thanks to the business friendly environment and technology focus of the event.

12:00 – 14:00	Networking Lunch
13:00 – 18:00	Innovation Tours: TEREOS Marckolsheim's site or DE DIETRICH Zinswiller's site Both site visits are reserved to BIOKET's participants (<i>registration needed</i>)
14:00 – 17:30 Room: Curie	14:00 – 15:30: First B2B meetings session 15:30 – 16:00: Networking Break 16:00 – 17:30: Second B2B meetings session

RESEARCH AND INNOVATION PROJECTS? THINK IAR!

We support your development of innovative, collaborative, R&I projects - from conception to financing :

- personalised support;
- state of the arts: economic, technological and business analysis;
- qualified partners identification through our extensive network;
- external expertise and official IAR cluster label;
- ...

WE STRIVE FOR EXCELLENCE!

Since 2005 - more than **250 R&I projects** supported successfully - **over €1.6 billion** in public and private funding raised!



THE FRENCH BIOECONOMY CLUSTER

CONTACT US

Christophe LUGUEL
Head of International Affairs
luguel@iar-pole.com
+33 6 73 41 41 63

Jacky VANDEPUTTE
R&I Projects Coordinator
vandeputte@iar-pole.com
+33 3 23 23 97 51

MARCH 7

BIOKET CONFERENCE

08:30 – 09:00	Registrations and Welcome of participants
09:00 – 11:30 Room: Schuman	<p>Opening Plenary Session: Overview on KETs</p> <p>Welcome and BIOKET's presentation: what to expect Johan DE CONINCK – Business Development Manager – IAR- The French Bioeconomy Cluster (France)</p> <p>Opening of the BIOKET conference Yvon LE HENAFF - Chairman – IAR – The French Bioeconomy Cluster (France)</p> <p>General view on KETs applied to the Bioeconomy</p> <ul style="list-style-type: none"> • State of the Art in Biotechnology and Green chemistry • Challenges for the future <p>Ludo DIELS – Research Leader – VITO (Belgium)</p> <p>Combining (bio)-chemists and engineering skills to develop smarter processes</p> <ul style="list-style-type: none"> • How to adapt process engineering methodologies to the constraints of the sector and to the level of information accessible to the (bio)chemists to enable them to compare as early as possible various process configurations and to find the best suited, optimized and reliable process in a fast, flexible and cost-efficient manner. <p>Roger-Marc NICLOUD – President and CEO - Ypso-Facto (France)</p> <p>Digital enterprise in process industries Ivan STJEPANOVIC – Business Development Plant Engineering Software – SIEMENS Industry Software GmbH (Germany)</p>
11:30 – 12:00	Networking Break
12:00 – 13:00 Room: Schuman	<p>Round Table – In house or outsourced: what is your scaling up strategy?</p> <p>Is there a unique scaling strategy? What are the key elements to choose the right strategy? What are the advantages and disadvantages of each strategy?</p> <ul style="list-style-type: none"> • Chairman: Michael KREL – Principal – Sofinnova Partners (France) • Jean-Christophe DUVAL – Business Development Manager - ARD (France) • Ena Chan CRATSENBURG – CBO - Ginkgo Bioworks (USA) • Michael O'DONOHUE – Research Director - IBISBA (France) • Thomas LADRACK – Sales Manager – ZETON BV (The Netherlands)
13:00 – 14:15	Networking Lunch

MARCH 7

BIOKET CONFERENCE

14:15 – 15:35 Room: Schuman	<p>New frontier for synthetic biology</p> <p>Chairman: Pierre MONSAN – Director – TWB (France)</p> <p>14:15: Metabolic engineering from the molecule structure to an industrial microorganism Cyrille PAUTHENIER – President – Abolis (France)</p> <p>14:35: You design it, we build it! Ross KETTLEBOROUGH – Technical Director in Europe – Twist Bioscience (USA)</p> <p>14:55: Building a platform to engineer biology Patrick BOYLE – Head of Design - Ginkgo Bioworks (USA)</p> <p>15:15: From bits to molecules: protein design for the speciality chemical industry Alexandre ZANGHELLINI – CEO – Arzeda (USA)</p>
Room: Curie	<p>Novel lignocellulosic biomass pretreatment and fractionation</p> <p>Chairman: Niklas Von WEYMARN – Vice-President Research – METSÄ GROUP (Finland)</p> <p>14:15: Pretreatment of lignocellulosic biomass Anton HAPPEL – Senior Process Technologist – Bioprocess Pilot Facility BV (The Netherlands)</p> <p>14:35: From forest to food: Novel biomass fractionation – conversion technology Lisette TENLEP – Senior Research Director – Arbiom (USA)</p> <p>14:55: Intensified continuous biomass treatment by twin screw extrusion Sylvie BRUNEL – Development Process Manager – Clextral (France)</p> <p>15:15: Pressurized hydrolysis μwave system for the processing of biomass and bio-wastes Mark GRONNOW – Process Development Unit Manager – Biorenewables Development Center (United Kingdom)</p>
Room: Churchill	<p>Thermochemical treatments of biomass</p> <p>Chairman: Isabelle CHAPUIS – Head of Laboratory – CEA (France)</p> <p>14:15: GENEPI, an innovative pilot-scale R&D platform dedicated to pretreatment and thermal conversion of dry and wet biomass and waste Isabelle CHAPUIS – Head of Laboratory – CEA Liten (France)</p> <p>14:35: Thermochemical conversion of biomass into energy and valuable products through torrefaction and pyrolysis Olivier LEPEZ - CEO – ETIA (France)</p> <p>14:55: Latest update on commercial of empyro pyrolysis plant Gerhard MUGGEN – Managing Director – BTG-BTL (The Netherland)</p> <p>15:15: Hynoca: an innovative process for the production of renewable hydrogen from biomass Christian BESTIEN – Director Business Development, Sales and Marketing - Haffner Energy (France)</p>
15:35 – 16:15	Networking Break

MARCH 7

BIOKET CONFERENCE

16:15 – 17:35 Room: Schuman	<p>Bioreactors and advanced fermentation processes</p> <p>Chairman: Jacky VANDEPUTTE - Innovation Projects Coordinator - IAR - The French Bioeconomy Cluster (France)</p> <p>16:15: VTH Industrial revolution recycling CO2 into carbon chains, real time Jean-Louis ROUX DIT BUISSON – CEO – Neocarbons (Switzerland)</p> <p>16:35: Innovative photobioreactors for large scale culture of algal biomass Nicolas DELPONT – Scientific Director – Sunoleo supported by GRTgaz (France)</p> <p>16:55: BIORARE: BioElectrochemical Systems (BES) applied to waste biorefineries Théodore BOUCHEZ – Project Leader – IRSTEA (France)</p> <p>17:15: Optimization of heterotrophic cultivation of chlorella sorokiniana, at the service of cosmetic industry Pauline ROUAUD-TINGUELY – Scientific Communication Project Leader – Silab (France)</p>
Room: Curie	<p>Extraction and valorization of non-cellulosic fractions of biomass</p> <p>Chairman: Anne WAGNER - R&D Director - TEREOS (France)</p> <p>16:15: Extraction in subcritical water Nicolas TETARD – International Sales Engineer – Tournaire (France)</p> <p>16:35: Train of electric pulses: a promising way for protein extraction from microalgae Benoit SCHOEFS – Head of the team "Metabolism, Bioengineering of Molecules from Microalgae and Applications" – Le Mans University (France)</p> <p>16:55: Superficial CO2 extraction: overview of industrial applications and forthcoming development Benoit LEGROS – Scientific and Technical Officer – IFS (France)</p> <p>17:15: Combination of technologies to optimize extraction performance Robert MARSELLES – Project Leader – Celabor (Belgium)</p>
Room: Churchill	<p>Key Enabling Technologies to produce what?</p> <p>Chairman: Sarah HOSKING - Biotech & Biosourcing Research Manager – Unilever (United Kingdom)</p> <p>16:15: Rational design of cell factories Simão SOARES – CEO – Silicolife (Portugal)</p> <p>16:35: Feed, food and fuel – maximizing resource efficiency Paul HUDMAN – Technical Director – 3FBIO (United Kingdom)</p> <p>16:55: Fermentative synthesis of biosurfactants by pseudozyma species using renewable feedstock Susanne ZIBEK – Industrial Biotechnology Group Manager – Fraunhofer IGB (Germany)</p> <p>17:15: Industrial transformation process for biomass inspired nanomaterials Vesna ZEPIC BOGATAJ – PhD Senior Researcher – TECOS (Slovenia)</p>
17:35 – 18:30	Cocktail (Cheese & Wine) by Eurodia
19:30 – 22:30	Networking Dinner by Prosim - Reservation needed



**SUSTAINABLE
DOWNSTREAM
PROCESSING
APPLIED TO
BIOMASS**

EURODIA
THE OPTIMAL PROCESS SOLUTIONS

- ELECTRODIALYSIS
- MEMBRANE FILTRATION
- ION EXCHANGE PROCESSES
- CHROMATOGRAPHY

WWW.EURODIA.COM



- Enjoy a nice Cheese & Wine cocktail, offered by EURODIA in the Galerie de Landsberg.
- Take an hour after your conferences of March 7th to meet the speakers, chairmen and delegates of the day in a relaxed environment.
- Take also this time to visit the exhibitors' booths.

Networking Dinner

Prosim and the organisers of BIOKET are delighted to welcome you at the majestic Villa Quai Sturm for a relaxed but nonetheless refined Networking Dinner. The villa, built in 1882, will enchant you for an exceptional evening with its classical style and its extraordinary panorama along the banks of the river Ill. Reservation needed.



March 7 – from 19:30 to 23:00
Villa Quai Sturm
 1 Quai Sturm - 67000 Strasbourg – France
 Sturm Hall – First floor

Tram B / Tram E – station République
 15 min' away from the Exhibition Centre



MARCH 8

BIOKET CONFERENCE

08:30 – 09:50

Novel downstream processes Room: Schuman

Chairman: Florence LUTIN – R&D Manager – Eurodia (France)

08:30: Forward osmosis: A novel process for the cold concentration of sensitive liquids
 Fabrice GASCONS VILADOMAT – CEO – Ederna (France)

08:50: Extraction and purification of metabolites in biotechnologies by Centrifugal Partition Chromatography
 Luc MARCHAL – HDR Laboratory GEPEA – Nantes University (France)

09:10: Purification and valorization of C5-sugars from hemicellulose streams by membrane filtration and hydrothermal processes
 Arne GRÖNGRÖFT – Group Leader of the Fuel & Separation Technologies – DBFZ – Deutsches Biomasseforschungszentrum gemeinnützige GmbH (Germany)

09:30: Continuous chromatography & numerical simulation: how to shorten, optimize and secure the way to industrial scale
 Cédric PRIEUR – Corporate Innovation – Novasep (France)

Revisiting biobased production processes Room: Churchill

Chairman: Franck DUMEIGNIL – Director of the Unit of Catalysis and Chemistry of Solid – UCCS – UMR CNRS (France)

08:30: Novel natural lipophilic dyes obtained by a green enzymatic process
 Lionel MUNIGLIA – Scientific Director – BIOLIE (France)

08:50: Teamcat Solutions: Access high-throughput technology to boost your innovation and discovery potential
 Joakim DELAUX – Sales Representative – TEAMCAT Solutions (France)

09:10: Biorizon takes bio-aromatics production to the next level
 Paul KÖNST – Scientist Bio-based Chemistry – TNO (The Netherlands)

09:30: Modern alchemy: waste to value with IH technology
 Dr Laszlo DOMOKOS – Global Account Manager, Business Opportunity Manager – Shell Global Solutions International BV (The Netherlands)

09:50 – 10:45

Networking Break

10:45 – 12:15

Novel fermentation technologies to valorize gaseous feedstocks Room: Schuman

Chairman: Andreas KOHL – Head of R&D Biotechnology – Clariant (Germany)

10:45: Challenges in scale-up of stirred, aerated fermenter
 Klaus GEZORK – Senior Process Engineer – EKATO Group (Germany)

11:05: A key role for shared pilot facility to deploy gas fermentation
 Hendrik WAEGEMAN – Head of Business Development – Bio Base Europe Pilot Plant (Belgium)

11:25: Challenges in delivery a demonstration-scale C1 gas fermentation process
 Kris WADROP – Director of Industrial Biotechnology and Biorefining – CPI (United Kingdom)

11:45: Valorization of CO2 – rich off-gases to biopolymers
 Linsey GARCIA-GONZALEZ – Program Manager – VITO (Belgium)

Novel physico-chemical processes Room: Churchill

Chairman: Fabien DESWARTES – Business Development Manager – Circa Sustainable Chemicals (United Kingdom)

10:45: Extrusion process: A versatile and innovative tool for biorefinery
 Pierre FERCHAUD – Project Manager, in charge of reactive extrusion – Extractis (France)

11:05: Decontamination of metal treated wood waste and its biorefining using ultra-cost ionic liquids (UCILs)
 Florence GSCHWEND – COO – Chrysalix Technologies (United Kingdom)

11:25: Solid-liquid solvent extraction with all-in-one DDPS extractor
 Roberto DE MIGUEL – Engineered Systems Manager – De Dietrich Process Systems (France)

11:45: Novel industrial applications for microwaves assisted green chemistry
 Eric DEJAIFFE – Commercial & Marketing Director – SAIREM (France)

It is easier with the right tool!

The **software** and the **expertise** to assist you in developing and optimizing your industrial bioprocess.

ProSim's solutions make the difference to address specific issues raised by bio-sourced chemicals production:

- accurate thermodynamic modeling of raw materials, products and by-products,
- improving scale-up from lab to pilot and industrial plants,
- exploring different production routes,
- evaluating CAPEX and OPEX to reduce production costs...

www.prosim.net

info@prosim.net

Labège, France - Tel.: +33 (0)5 62 88 24 30
 Philadelphie (PA), USA - Tel.: +1 215 600 3760



Software & Services In Process Simulation

We guide You to efficiency

MARCH 8

BIOKET CONFERENCE

12:15 – 13:30 **Networking Lunch**

13:30 – 14:50 **Innovative tools to optimize bio productions**
Room: Schuman

Chairman: Joanna DUPONT – Director- Europabio (Belgium)

13:30: Digital fermentation – Boosting production through advanced on-line and real-time monitoring of bioethanol industrial fermentation
Marcelo DO AMARAL – CEO – GlobalYeast (Brazil)

13:50: Innovation and process optimization based on an hypernated analytical smart tool, the role of HPTLC
Pierre BERNARD-SAVARY – President – Chromacim (France)

14:10: Rational design of cell factories
Simão SOARES – CEO – Silicolife (Portugal)

14:30: Bacteriocins applications for the development of new genetic control of microbial strains in industrial fermentation
Philippe GABANT – CSO – Syngulon (Belgium)

Modelisation and scale-up derisking
Room: Churchill

Chairman: Michael KÖPKE – Director Synthetic Biology – LanzaTech (USA)

13:30: Bioprocess design: key issues for a methodological de-risking of process development and integration of technologies
Hector OSUNA – Innovation Manager – Processium (France)

13:50: Enhancing the development of bio-based products using process modelling and simulation
Marie-Amélie de VILLE d'AVRAY – Resources Sector Manager – Caspeo (France)

14:10: Using modeling tools to rationally compare modern chromatographic processes for saccharide purification
Laurent DAVID – Process Engineer - Ypso-Facto (France)

14:30: Scaling the biobased chemistry, is decentralized production the future?
Thomas LADRAK – Sales Manager - ZETON BV (The Netherlands)

15:00 – 16:30 **Closing Plenary Session: Next generation of biorefinery**

Room: Schuman

Chairman: Thierry STADLER – First-Vice-Chairman – IAR – The French Bioeconomy Cluster (France)

Metsä Group's bioproduct mill: A next-generation biorefinery applying a multitude of KETs
Niklas VON WEYMARN – Vice President Research – METSÄ GROUP (Finland)

Industry of the future and digital technologies
Philippe WATTEAU – Director of LIST – CEA Tech Institute (France)

COMOS: Making data work
Ivan STJEPANOVIC – Business Development Plant Engineering Software – SIEMENS Industry Software GmbH (Germany)

Conclusions

the gallery of possibilities presents



Agricultural gas

This farm also produces energy. Using a digester, it generates biogas from manure and agricultural waste. This renewable energy is then injected into the network to be supplied to local households and industries.

L'énergie est notre avenir, économisons-la!

GAS. THE ENERGY OF ALL POSSIBILITIES.
| GazEnergieDesPossibles.fr




processium
Process & Product Design

- Physico-chemicals Properties Measurements
- Thermodynamics and Kinetics Measurements
- Solvent Selection / Replacement
- Technical and Economic Feasibility Study
- Design and Development of Process Units
- Optimisation of Existing Process Units

Your Partner in Process Design Development and Optimization

www.processium.com

Chairmen & Speakers

BBI & Bioeconomy's EU Project Information and Brokerage Event

Analysis and opportunities of Public-Private Partnerships and other European initiatives



Filippo Giancarlo MARTINELLI

(PDEng, MSc, ongoing Executive MBA) currently works as Consultant and GA Pipeline Manager at PNO Consultants' Brussels office: PNO Innovation NV. He's the responsible person for Bioeconomy with a focus on large corporate, industrial clusters, lobby and European Institutions.



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 (Gembloux Agro-Bio Tech Uni) and in Strategic Innovation Management (INSEAD). Mr Mengal held strategic managerial positions in France and Belgium such as CEO of three companies, Global R&D Director and Senior Consultant in food ingredient, engineering and life science



Bill MORRISSEY

Dr. is Bioeconomy Program Manager at Glanbia. He has worked in the Agri-Food sector since 1998 in supply chain, R&D and procurement. His PhD from University College Cork was undertaken while working in industry specializing in the commercial optimization of large scale bacteria and yeast fermentations.

BIOKET Conference

Opening Plenary Session: Overview on KETs



CHAIRMAN

Yvon LE HENAFF, graduated engineer from AgroParisTech, started his career in 1977 as a R&D Engineer. He held different positions as industrial & commercial director in process engineering and contracting companies in the field of agro industry in France and abroad. He has been appointed General Manager of ARD in 2002. He's also President of IAR - The French Bioeconomy Cluster.



Ludo DIELS

Dr. in chemistry & biotechnology, is research manager Sustainable Chemistry for the Flemish Institute for Technological Research (VITO) in Belgium. He managed the Environment and Process Technology Business Unit and is now responsible for the transition toward sustainable chemistry and clean technology.



Roger-Marc NICOU

has forged a successful career as an entrepreneur in the life sciences industry. He founded and headed Novasep for over 15 years. He has created Ypso-Facto in 2014 to support industrial firms with their chemical and bioprocesses.



Ivan STJEPANOVIC

is currently a Business Development Consultant in Process Automation for Comos Industry Solutions. Graduated from the Univ. of Kragujevac (Serbia), he holds a MSc. in Mechanical Engineering. He was employed by SIEMENS Industry Software for the last 6 years.

Round Table - In house or outsourced: what is your scaling up strategy?



CHAIRMAN

Mickael KREL joined the Life Sciences team of Sofinnova as Senior Associate in 2013 and is now Principal. He focuses on investments in the industrial biotechnology and renewable chemistry sectors. He graduated from Ecole Polytechnique and holds a PhD in organic chemistry from the ICSN (Institut de Chimie des Substances Naturelles).



Ena Chan CRATSEENBURG

is Chief Business Officer at Ginkgo Bioworks. She has successfully developed and implemented commercialization strategies and established key partnerships for synthetic biology companies across various sectors. Ena holds an MBA and a BS in Chemical Engineering.



Jean-Christophe DUVAL

managed for 17 years the commercial, marketing & industrial development, in many international areas within Atochem. He invested in entrepreneurship and innovation. Since 2015 he's the Business Development Director at ARD and Director of its affiliated company Wheatoleo.



Michael O'DONOHUE

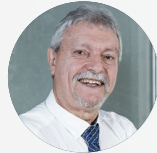
works for INRA (France) and is head of its CEPIA division (Food and Biobased research). He is coordinator of the research infrastructure project IBISBA that supports industrial biotech.



Thomas LADRAK

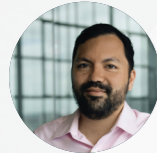
is Sales Manager at Zeton BV in the Netherlands. He has 22 years' experience in sales and marketing functions. Within the Zeton Sales team he is responsible for the large scale modular plants and all bio related projects.

New frontier for synthetic biology



CHAIRMAN

Pierre MONSAN graduated from the INSA (Dep. of Biochemical Engineering). He is the Founder-Director of the pre-industrial demonstrator "Toulouse White Biotechnology" and his research work was mainly focused on the design of performance enzymes by rational and combinatorial molecular engineering.



Patrick BOYLE

is the Head of Design at Ginkgo Bioworks, a Boston-based synthetic biology company that makes and sells engineered organisms. He has a PhD from Harvard Medical School by developing synthetic biology applications in bacteria, yeast, and plants in the lab of Dr. Pamela Silver. He received an SB in biology from the MIT.



Ross KETTELBOROUGH

is Technical Director Europe at Twist Bioscience. During his studies he took part to the Human Genome Project and focused on mouse developmental biology. Through his work with Twist, his interests now include synthetic biology, protein evolution, variant library production, and any other ways in which synthetic DNA can aid basic and medical research.



Cyrille PAUTHENIER,

MsD ENS Paris, PhD Paris-Saclay Univ. He is the President and founder of Abolis Biotechnologies, a pluridisciplinary metabolic engineering SME focused on long and complex pathways.



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).

Novel lignocellulosic biomass pretreatment and fractionation



CHAIRMAN

Niklas Von WEYMARN is currently Vice President for Research and Development at Metsä Fibre. He has a doctoral degree in bioprocess engineering. He was also part of the industrial core team that set up the Bio-based Industries Consortium (BIC) and with the European Commission, the Bio-based Industries Public-Private Partnership.



Sylvie BRUNEL

is the Manager of the Process Team and Process R&D department at Clextal, France. She's an engineer specialized in polymers and holds a Ph.D in Macromolecular Physics and Chemistry. She joined Clextal in 2002. She is in charge of all process/products R&D projects, specifically in green extrusion.



Mark GRONNOW

is from the Biorenewables Development Centre, a centre set up to bridge the gap between industry & academia scaling up and demonstrating new technologies. His career history covers applied clean tech research in academia & technical management at an SME and the Green Chemistry Centre of Excellence.



Anton HAPPEL

is a senior process technologist & project manager at BPF. He has a broad experience in biotechnology and in depth experience in tech transfers from bulk food ingredients to pharma proteins. As technologist area's covered are downstream processing of microbial products and also pretreatment of lignocellulosic biomass, enzymatic hydrolyzation and recovery.



Lisette TENLEP

is Senior Process Technologist at Arbiom Inc. She has expertise in biomass conversion technologies, downstream processing technologies and analytical chemistry techniques. Lisette received her BSc and a Master's degree in Chemistry.

Thermochemical treatments of biomass



CHAIRMAN

Isabelle (Pamart) CHAPUIS is Head of Laboratory for Thermal Conversion of Bioresources at CEA (The French Alternative Energies and Atomic Energy Commission), and Agricultural Engineer specialized in Sustainable Development.



Christian BESTIEN

is in charge of the strategic development of HAFFNER ENERGY's new activities, particularly in the production of renewable hydrogen (HYNOCA®) and eco-friendly industrial drying (ELOOP®).



Olivier LEPEZ

is co-founder & president of ETIA, which produces leading steam sterilization system Safesteril and the unique technology for the environment Biogreen. He's also co-founder & CEO of VT GREEN, dedicated for the development of biochar and pyrolytic oil as biosourced product for agriculture, gardening and green chemistry.



Gehrard MUGGEN

is managing director & shareholder of BTG Bioliquids BV (BTG-BTL) and managing director of Empyro. He's responsible for the strategy and worldwide marketing & sales. He has been working for Stork Thermeq as Sales manager and VP Marketing & Sales. He was also responsible for organizing and initiating new developments and marketing new technologies.

Bioreactors and advanced fermentation processes



CHAIRMAN

Jacky VANDEPUTTE is R&D&I project manager 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 and trading of dairy ingredients, shifting then to French associations on the promotion and defense of fruit juices.



Théodore BOUCHEZ

is currently leading a multidisciplinary research group on environmental biotechnology processes at Irstea. He holds Engineering and PhD degrees from Agroparistech. He has led many national & international research projects in the field of waste and wastewater treatment and valorization. He has been the coordinator of the French «Investissement d'Avenir» BIORARE project.



Nicolas DELPONT

is scientific manager at SunOleo and he is in charge of collaborative projects with academic partners and companies. Nicolas studied chemical engineering at CPE Lyon in France and earned a Ph.D. at ICIQ in Spain. Technology Business Unit and is now responsible for the transition toward sustainable chemistry and clean technology.



Pauline ROUAUD-TINGUELY

is a graduate of the university of Limoges, France. After 3 years of research within the UMR CNRS 7276, she defended her PhD in immunology and biotechnologies in November 2013. Since April 2014, she is Project Leader in the R&D Scientific Communication unit of SILAB - Corrèze, France.



Jean-Louis ROUX DIT BUISSON

CEO of Neocarbons, has 25 years of experience in developing & growing technology based companies. His business developer experience covers materials & processes, health care industries. He holds an MBA (Insead), MSc in Chemical Engineering (MIT) and an Engineering degree (ENSCP Paris-Tech).

Extraction and valorization of non-cellulosic fractions of biomass



CHAIRMAN

Anne WAGNER is VP Innovation & Quality for Tereos Syral, the Cereal Division of the Tereos Group. She holds a PhD in Biochemical Engineering. In 2013, she was appointed Research and Development Director of Tereos. She's also in charge of the Presidency of PROCETHOL 2G and of Proteines France, and member of various boards: INRA, IAR, ESBS, Vitagora, LRD and Coopenergie.



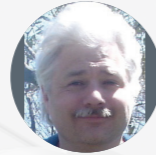
Benoit LEGROS

works at IFS - Innovation Fluides Supercritiques aiming at promoting and developing supercritical and subcritical fluids technologies. After a PhD in chemical engineering on Fuel cells diagnosis, he joined Mistras Group as R&D Engineer.



Robert MARSELLES

Dr. is a chemical engineer & food technologist with several years of academic and industrial experience. He joined Celabor's team to use PEF as an extraction aid for efficient extraction technologies such as ultrasounds, microwaves and pressurized fluid technology.



Benoit SCHOEFS

plant physiologist, graduated from the Plant Science Department at the Liège University in 1994. He worked for several universities and French National Research Center. In 2011, he joined Le Mans university. He's the leader of the 'Metabolism, Engineering of Microalgal Molecules and Applications' research group.



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 know-how developed by Tournaire in the field of natural treatment.

Key Enabling Technologies to produce what?



CHAIRMAN

Sarah HOSKING graduated from the University of Lancaster, with a BSc in Biological Sciences and gained a PhD in plant biochemistry from University of Central Lancashire. She joined the global home, personal care and foods company, Unilever, working in their R&D function at Port Sunlight, Wirral, UK, in 1997.



Paul HUDMAN

is a biochemical engineer. He worked within multinational pharmaceutical contract research organisations both in the UK and abroad before joining the Scottish IB cluster IBiolC. He recently joined 3fbio to direct laboratory operations within Scotland and to form part of the team who will deliver full scale mycoprotein production in the next few years.



Simão SOARES

is CEO & co-founder of SilicoLife. He holds a MSc in Bioinformatics from Univ. of Minho, postgraduate in management from NOVA School of Business and Economics and trained in Blue Ocean Strategy at INSEAD. He's member of the board of P-BIO (Portuguese Bioindustry Association).



Vesna ZEPIC BOGATAJ

obtained her PhD in Bioscience (2015) at Biotechnical Faculty, Univ. in Ljubljana. In 2011 she joined the Development Centre TECOS as a research associate. Her working areas are chemical functionalization of lignocellulosic materials, study of natural fiber/polymer interface in nanocomposite materials.



Susanne ZIBEK

is heading the group Industrial Biotechnology. Her topics are treatment of renewable resources, lignocellulose biorefinery, enzyme screening, process development, scale up of fermentation processes.

Novel downstream processes



CHAIRMAN

Florence LUTIN is R&D Director at Eurodia. She holds a PhD in physico-chemistry on methane fermentation. She's managing a team of 10 people and has successfully established several scientific partnerships and participated in the development of innovative & patented process solutions in the field of purification and fractionation.



Fabrice GASCONS VILADOMAT

is a French entrepreneur. He graduated from AgroParisTech. He received a PhD for his research on the recovery of aroma compounds from food industry wastewaters using membrane extraction technologies. In 2007 he co-founded EDERNA, dedicated to the development of a patented cold concentration process to produce natural ingredients with an outstanding quality for the F&B and biotech industries.



Arne GRÖNGRÖFT

is the Group Leader of the Fuel and Separation Technologies group at DBFZ since 2011. His main expertise and knowledge is on process simulations, downstreaming technologies, biorefinery concept development and assessment.



Luc MARCHAL

Dr. is Associate Professor at Nantes University - R&D in Separation Process Engineering Head of Microalgal Biorefinery team, Head of CPC Engineering (Business Unit of Capacités SAS). His main research activities are in the field of separation processes (lab and pilot scale) Centrifugal Partition Chromatography.



Cédric PRIEUR

works as Product Engineer for the Customer Service of Novasep. Graduated from the Chemistry school from Toulouse, he joined Novasep Process in 2006 as a process engineer. Since then he was involved in the implementation of different kinds of purification processes, the research & development of new products and innovative technologies for the group.

Revisiting biobased production processes



CHAIRMAN

Franck DUMEIGNIL is currently Professor at the University of Lille, and Director of the Unit of Catalysis and Chemistry of Solid ('UCCS', UMR CNRS 8181). He is specialist of biomass-derived platform molecules conversion to high value added compounds through the development of processes based on heterogeneous and hybrid catalysis.



Joakim DELAUX

After a PhD in chemistry, Joakim Delaux turned towards sales in research field. Now, he works as business developer for Teamcat Solutions, a start-up specialized in high-throughput technology.



Laszlo DOMOKOS

has joined Shell in Amsterdam in 2000 after receiving his PhD in Catalysis from University of Twente, The Netherlands. He has worked in a variety of catalyst research and product development programs, advisory for downstream technology deployment, I^H2@ technology maturation & licensing.



Paul KÖNST

Dr. is Scientist Bio-Based Chemistry at the department of Sustainable Process & Energy Systems at TNO, organization for applied research. He graduated as bioprocess engineer and obtained his PhD on the topic of biomass valorization at Wageningen University, NL. Together with his colleagues at TNO and Shared Research Center Biorizon, he's driven to establish the commercial production of bio-based aromatics.



Lionel MUNIGLIA

is scientific director at BIOLIE "l'extraction au sens propre", a company he created in 2012 following his work at the ENSAIA (Lorraine University). For 15 years, he has focused his research on enzymatic mechanisms and white biotech for plant biorefinery and functionalization of biomolecules (polysaccharides) by sustainable processes.

Novel fermentation technologies to valorize gaseous feedstocks



CHAIRMAN

Andreas KOHL is Head of Research Biotechnology at Clariant Produkte GmbH. He holds a PhD and his previous work experience include scientist protein engineering and project manager R&D at Süd-Chemie AG before integrated Clariant in 2011.



Linsey GARCIA-GONZALEZ

works part time as project manager biotechnology at VITO, focusing on the valorization of CO₂-rich off-gases, and part time as program manager at Catalisti, the Flemish spearhead cluster of chemistry and plastics, where she is responsible for the innovation themes "valorization of waste streams" and "renewable chemicals".



Klaus GEZORK

studied process engineering at the RWTH Aachen from 1989 to 1995 and earned his Ph.D. in 2001 at the University of Birmingham/UK in the field of gas/liquid mixing. Since 2006, he works at EKATO RMT as a senior process engineer in R&D.



Kris WADROP

is the Business Unit Director responsible for the Industrial Biotechnology and Biorefining area of CPI. He is an internationally experienced chemical engineer and a Fellow of the IChemE.



Hendrik WAEGEMAN

works as Head of Business Development at Bio Base Europe Pilot Plant. He holds a PhD in Applied Biological Sciences-Chemical Engineering. He was involved in a number of projects that focused on the fermentative production of specialty carbohydrates.

Innovative tools to optimize bio productions



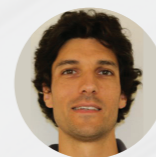
CHAIRMAN

Joanna DUPONT is director of industrial biotechnology at Europabio. Her work involves developing a more supportive, predictable and coherent EU policy environment for the deployment of industrial biotech products and processes within the broader bioeconomy.



Pierre BERNARD-SAVARY

is the founder and chairman of the company Chromacim SAS. He is also member of various committees including AFSEP (French national association of separation sciences).



Julien CESCUT

works at TWB as manager of the biotransformation platform. He was awarded PhD from Toulouse Univ. in 2009 for studies in Microbiology and Enzymatic Engineering. He likes to work in the area of interface between fermentation, automation and data exploration.



Marcelo DO AMARAL

is CEO of GlobalYeast and responsible for the implementation of the company business plan, the coordination of the Business Development and R&D, and also the Administration & Finance activities. He has experience in the sugar-ethanol and chemical industry, academia, and management consulting.



Philippe GABANT

is the founder & scientific director of Syngulon since 2013, a startup focusing on genetic innovations to improve microbial strains for industries. He holds a PhD in molecular biology and was one of the founder of Delphi Genetics.

Novel physico-chemical processes



CHAIRMAN

Fabien DESWARTES is Business Development Manager at Circa Sustainable Chemicals, a biotech start-up that has developed the world's first and only continuous process to manufacture platform molecule levoglucosenone. He has over 15 years of experience in the area of biorefining and has worked in a variety of roles in academia, government and industry.



Eric DEJAIFFE

is currently Commercial Director at SAIREM, one of the world's leading suppliers of industrial microwave and radio frequency equipment. He is a Chemical Engineer and he has worked in several industries such as chemicals, automotive and medical devices.



Roberto DE MIGUEL

is an industrial engineer with 22 years of experience, including general management of mid-size organizations, technical sales promotion, and product and projects development. He's currently working as Engineered System Director for Europe at De Dietrich Process Systems.



Pierre FERCHAUD

joined Extractis, a R&D technical center specialized in extraction/fractionation of all plant material, to initiate the reactive extrusion activity area, after a PhD in organic chemistry. He managed many projects over 9 years, covering numerous aspect of this specialty, mainly chemical or enzymatic reactions, but also extraction assisted by extrusion.



Florence GSCHWEND,

Dr. is co-founder and CEO/COO of Chrysalix Technologies, an Imperial College spin-out company seeking to commercialise an ionic liquid-based lignocellulose fractionation technology.

Modelisation and scale-up derisking



CHAIRMAN

Michael KÖPKE is Director of Synthetic Biology at LanzaTech, a company developing a first of its kind commercial-scale gas fermentation process. Michael has over 15 years of experience, holding >100 patents and published over 30 articles.



Laurent DAVID

is a process engineer specialized in biochemical and purification processes. He graduated from ENSIC (Nancy, France). During his career, Laurent has been involved in the development of a wide range of bioprocesses all over the world.



Marie-Amélie de VILLE d'AVRAY,

PhD CASPEO Agro resources sector Manager - PhD in Process Engineering, specializing in the mathematical modelling and simulation of industrial processes - Graduate from the French AgroParisTech.



Thomas LADRAK

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.



Hector OSUNA

PhD. is Innovation Manager at PROCESSIUM SA. He joined the company in 2011 as Manager of Scientific Calculation Team, crossing skills in software tools, numerical methods and chemical engineering. Since 2016, he is in charge of Innovation, managing R&D projects, collaborations and core skills.

Closing plenary sessions: Next generation of biorefinery



CHAIRMAN

Thierry STADLER is First Vice-Chairman of IAR – The French Bioeconomy Cluster. He holds a PhD in plant biochemistry and physiology. Since 1997, Mr Stadler is the General Director of Extractis, a 32 people research and innovation centre focusing on the valorization of biomass.



Ivan STJEPANOVIC

is currently a Business Development Consultant in Process Automation for Comos Industry Solutions. Graduated from the Univ. of Kragujevac (Serbia), he holds a MSc. in Mechanical Engineering. He was employed by SIEMENS Industry Software for the last 6 years.



Niklas Von WEYMARN

is currently Vice President for Research and Development at Metsä Fibre. He has a doctoral degree in bioprocess engineering from Aalto University (Finland). Niklas was also part of the industrial core team that set up the Bio-based Industries Consortium (BIC) and with the European Commission, the Bio-based Industries Public-Private Partnership.



Philippe WATTEAU

is graduate of the EDHEC Business School (France) and former Deputy Director of Air Liquide R&D.. Philippe Watteau is currently Director of List, a CEA Tech Institute.

Innovation Tours

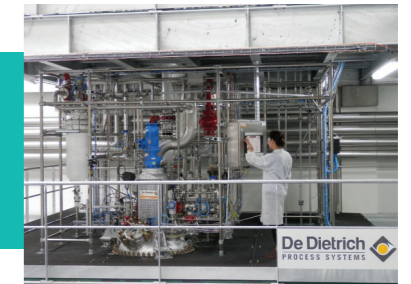
De Dietrich Process Systems and Tereos are welcoming the BIOKET's participants for a whole afternoon on March 6th to present their facilities, equipments and disruptive technologies.



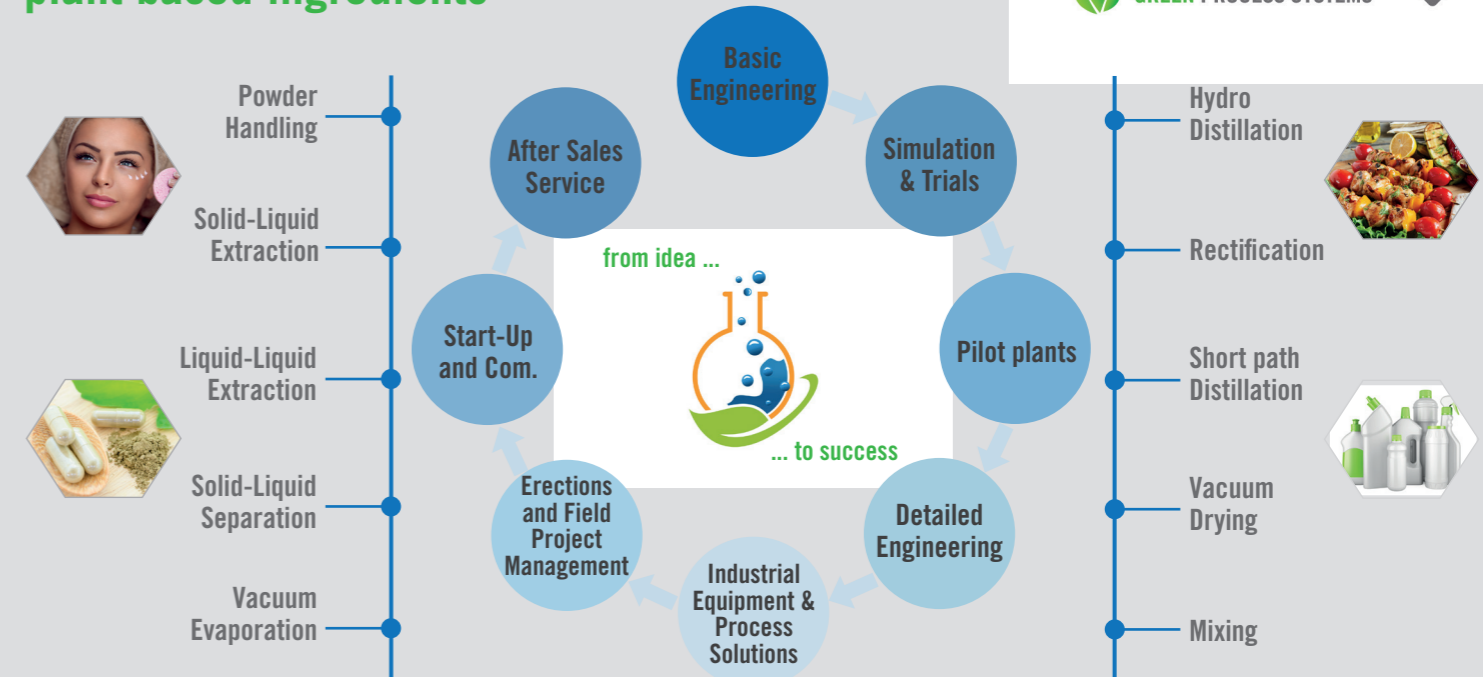
Tereos, a cooperative sugar group, processes agricultural raw materials into sugar, alcohol and starch. Open to a changing world and the opportunities to bring, the company is helping to drive improvements in growing practices, while optimizing its industrial processes. Tereos is present in 16 countries with 49 industrial sites.



De Dietrich Process Systems bolsters its plant-based chemistry operations. DDPS provides companies in the food, healthcare, cosmetics, and biomaterials industries with a complete range of customised turnkey solutions for extracting and purifying natural ingredients from biomass.



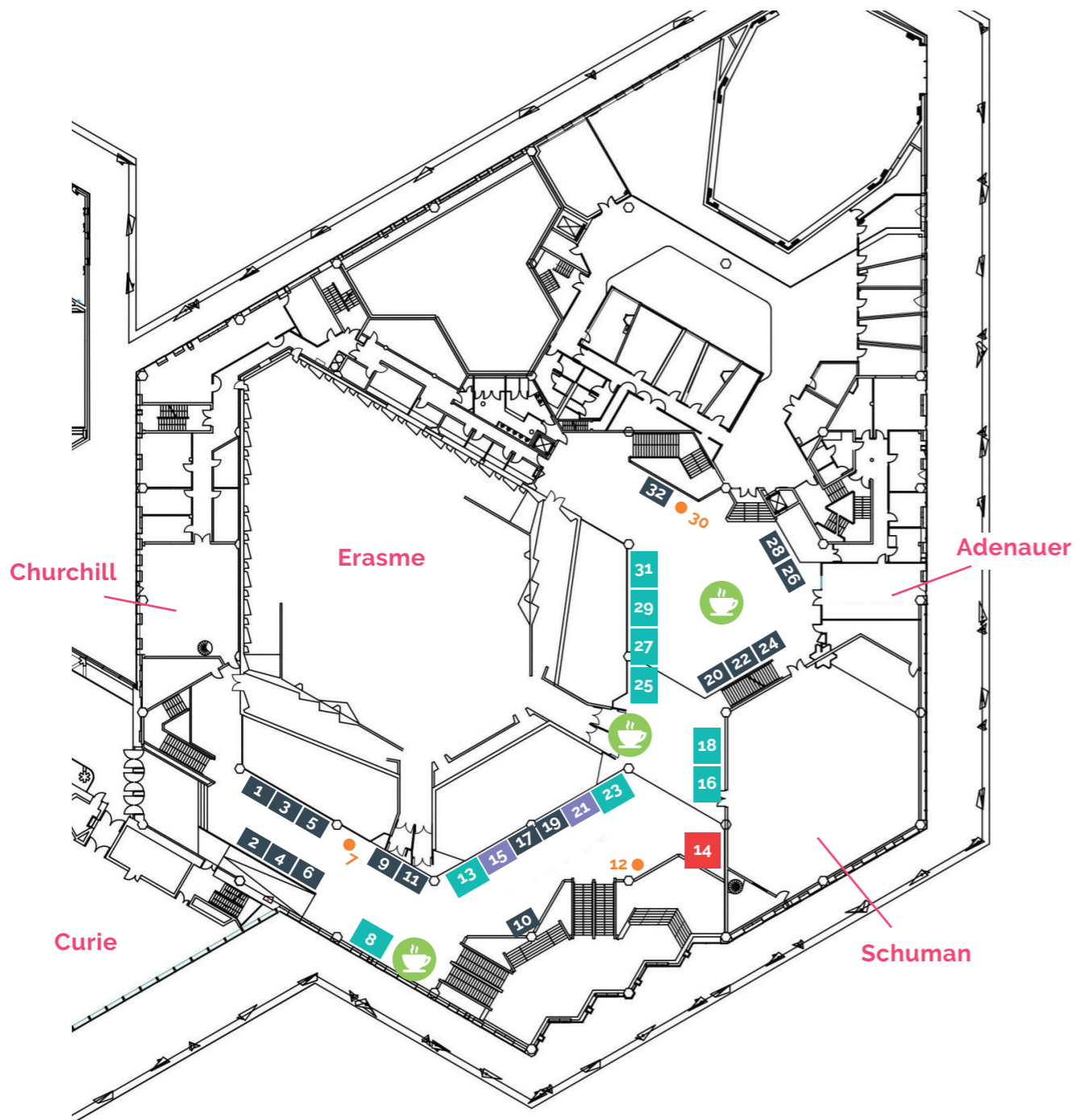
Solutions for vegetal chemistry, plant based ingredients



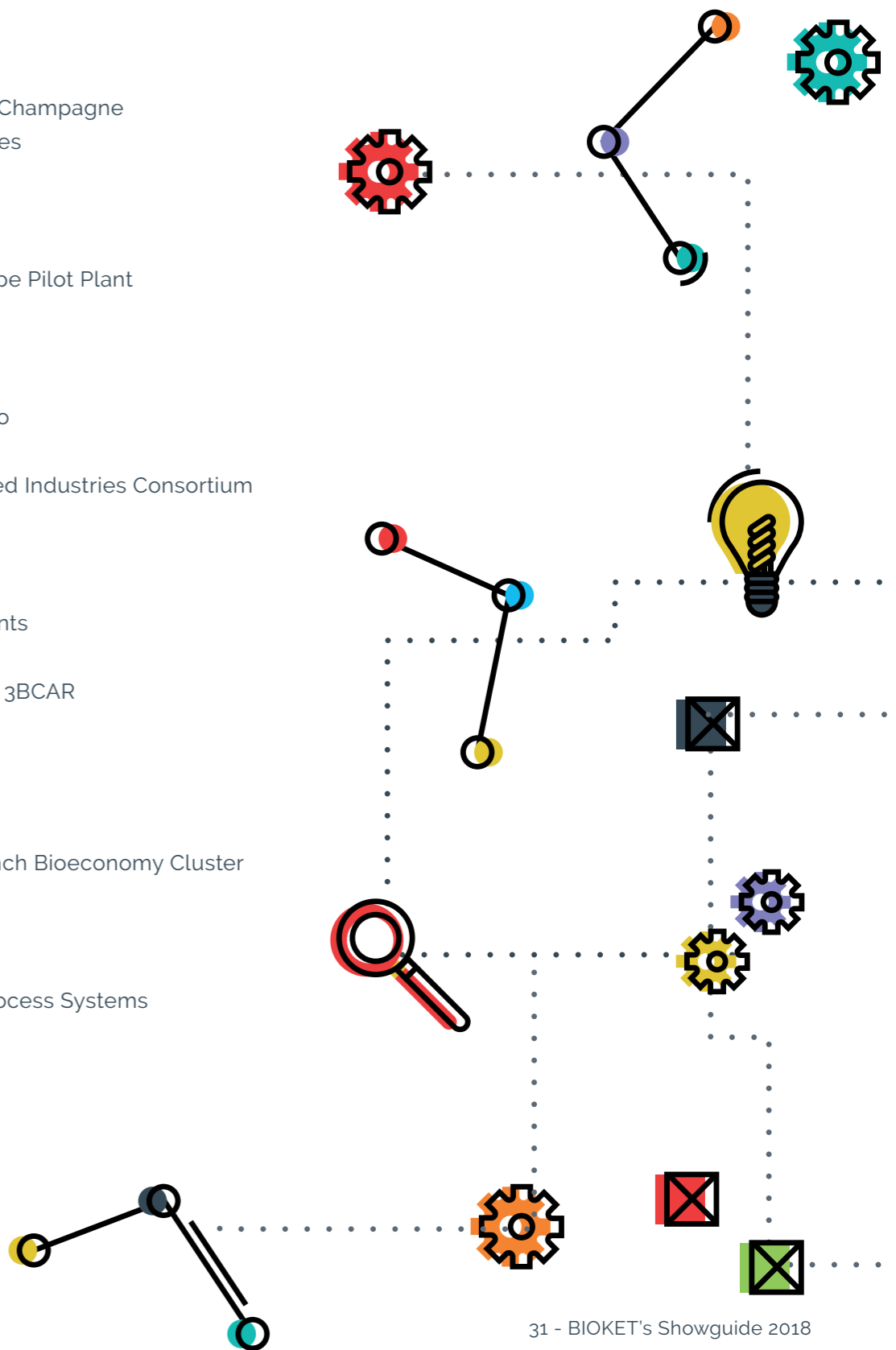
Our markets applications: Cosmetics, Nutrition & Health, Food & Beverage, Fragrances

www.dedietrich.com

Exhibition space



- 1 CCI Marne en Champagne
- 2 Lebas Industries
- 3 Axens
- 4 VITO
- 5 Ekato
- 6 Bio Base Europe Pilot Plant
- 7 Tournaire
- 8 CEA
- 9 Bluesens
- 10 TWB/Superbio
- 11 Siemens
- 12 BIC - Bio-based Industries Consortium
- 13 GRTgaz
- 14 Ypso-Facto
- 15 SAS Pivert
- 16 PNO Consultants
- 17 IPSB
- 18 Institut Carnot 3BCAR
- 19 Caspeo
- 20 CPI
- 21 BioVale
- 22 Extractis
- 23 IAR - The French Bioeconomy Cluster
- 24 Chromacim
- 25 ARD
- 26 Bronkhorst
- 27 De Dietrich Process Systems
- 28 M2P-Labs
- 29 Novasep
- 30 Clextal
- 31 Prosim
- 32 Sairem



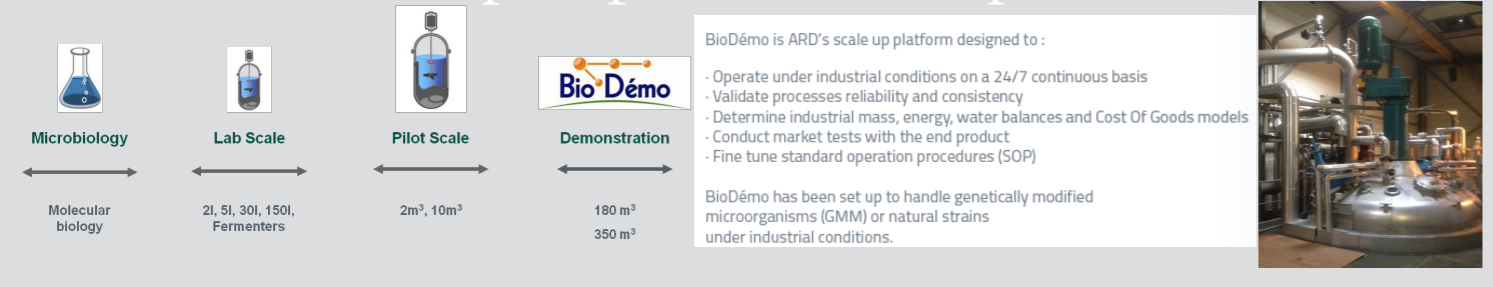
ard
INNOVATION IN GREEN

Route de Bazancourt
51110 Pomacle - FRANCE
Tel : +33 (0)3 26 05 42 80
Fax : +33 (0)3 26 05 42 89
www.a-r-d.fr
contact@a-r-d.fr

Strain selection
Laboratory
Pilot
Design



BioDÉmo, an open platform for process scale up



INSTITUT CARNOT 3BCAR

Bioenergies | Biobased molecules | Biobased materials

R&D partnership for your innovation

Innovate and support **Bioeconomy** emergence with **Biotechnologies** and **Green chemistry**

www.3bcar.fr

@_3BCAR

3bcar@instituts-carnot.fr



Come and meet our members present at Bioket

Sponsors profile

PLATINIUM

The French Alternative Energies and Atomic Energy Commission (CEA) is a key player in research, development and innovation in four main areas, technological research for industry, nuclear and renewable energies, defence and security, fundamental research in the physical sciences and life sciences and participates actively in R&D collaborative projects with firms and/or academic partners. www.cea.fr

Ypso-Facto, Your Process Secured and Optimized
Ypso-Facto is a service company offering scientific and technical consulting, process simulation software and contract research services for chemical and biochemical processes. We combine strong industrial experience and scientific expertise with a complementary know-how in (bio)chemistry and process engineering to develop efficient, robust and innovative processes. We like to think out of the box... Challenge us! www.ypsofacto.com

GOLD

3BCAR Carnot institute is a French structured R&D network, offering its competencies in the field of biomass valorization in sectors of Bioenergy, Biobased molecules & materials. www.3bcar.fr

Novasep provides purification solutions using technologies such as chromatography, ion exchange, filtration, electrodialysis, and evaporation. www.novasep.com

ARD is a R&D company, dedicated to Biorefinery and White Biotechnology scale-up since 1989 when it has been created by cereal and sugar beet cooperatives to find new outputs for the crops. www.a-r-d.fr

PNO Consultants is Europe's leading innovation & funding consultancy. With more than 30 years of activity and offices in 6 European countries, they have developed a global network of national and regional creative partners. www.pnoconsultants.com

De Dietrich Process Systems offers companies in the food, healthcare, cosmetics, and biomaterials industries, engineering & turnkey solutions to extract and purify plant-based ingredients. www.dedietrich.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

With 32,320 km of underground pipelines, **GRTgaz** is one of Europe's leading natural gas transmission companies. GRTgaz is investing in innovative solutions to reconcile competitiveness, security of supply and environmental protection. www.grtgaz.com

SILVER



BioVale promotes Yorkshire and the Humber as a thriving centre of successful innovation for the bioeconomy and helps regional enterprise profit from the valuable business opportunities in this high growth sector. www.biovale.org



Eurodia is internationally known for his highly specialized know-how in purification processes in sectors ranging from the dairy, wine, starch & sugars industries and biotech / renewable chemistry. www.eurodia.com



Genopole is the leading French biocluster, dedicated to biotherapies and genomics. It offers a unique and fertile ecosystem to biotech companies and laboratories looking to grow. www.genopole.fr



Founded in 2002 by engineers coming from the chemical industry, **Processium** is employing about 40 collaborators and specialized in design, development and optimisation of processes for chemical and biotechnological industries. processium.com



SAS PIVERT is an innovative company in the field of plant-based chemistry, supported by the French State through the Investments of the Future Programme. It develops and markets new products, processes and accelerates the industrialisation of innovation in plant-based chemistry. sas-pivert.com

BRONZE



Optimisation of raw & secondary materials processing for agro-industries, waste and mineral processing. **Caspeo** offers: audit, consulting, software, R&D, training. www.caspeo.net



Reims Bioeconomy Park, a business park dedicated to innovation and bioeconomy, developed by the Chamber of Commerce and Industry: locate new offices, pilots, maintenance sites, research laboratories or warehouses near biosourced raw materials. www.marne.cci.fr



Chromacim, founded in march 2003, is the specialist of HPTLC. High-Performance Thin-Layer Chromatography is the third way for analytical chromatographic tasks. www.chromacim.com



The Centre for Process Innovation is a UK based technology innovation centre and part of the High Value Manufacturing Catapult. CPI helps companies overcome innovation challenges and develop next generation products and processes. www.uk-cpi.com



In the past 85 years **EKATO** has developed to world market leader in mixing technology and offers today optimized mixing technologies for all process-oriented industries. www.ekato.com



Extractis, experts in plant biorefinery since 1984. Agroindustrial Technology Institute specialized in extraction, fractionation and plant biomass chemistry for new products/process (additives, food, health, cosmetics). Chemical intermediaries in various industrial sectors. extractis.com



IPSB is a process engineering company involved in sugar industries, bioindustries and biorefineries and provides services and assistance for process scale up, design, construction and optimization of units. ipsb.fr



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-industries.com



M2P-Labs BioLector® microbioreactors for screening, bioprocess development & automated microfermentation / high throughput microbial experiments. www.m2p-labs.com



SAIREM is among the international leaders specialized in microwave and RF laboratory and industrial equipment for food processing, drying, extraction, science and medicine applications. www.sairem.com

BRONZE



Axens Group provides a complete range of solution: advanced technologies, modular units, catalysts, adsorbents, services for the conversion of oil & biomass to cleaner fuels, production & purification of major petrochemical intermediates. www.axens.net



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



BlueSens offers off-gas sensors and software for biotechnological applications. The product portfolio comprises single sensors and complete packages for different gases. www.bluesens.com



Bronkhorst France offers a wide range of Coriolis & thermal mass flow Meters/Controllers for gas or liquid & ultrasonic meters for low flow of liquid. www.bronkhorst.com

BRONZE



Leader in Software and Automation Solutions, **Siemens** is the Industry partner for the Digital Transformation of the production in Process Industries. www.siemens.com



As a leading independent European research organization, **VITO** develops cleantech technologies that tackle today's societal challenges. www.toulouse-white-biotechnology.com



SuperBIO is a H2020 innovation project that aims to develop innovative, cross-border and cross-sectorial industrial value chains in the bio-based economy. vito.be

CEA

Key player in research, development and innovation

The CEA leads research in four main areas: defence and security, nuclear and renewable energy, applied technology research for industry, and fundamental research (physical sciences and life sciences). With close ties to academic research and the world of industry, the CEA supports big industry and small businesses bringing innovative technologies to market. The CEA's research missions make it a stakeholder in a series of national alliances set up to coordinate French research in energy (Ancre), life sciences and health (Aviesan), digital science and technology (Allistene), environmental sciences (Allenvi) and human and social sciences (Athena). Widely acknowledged as an expert in its areas of skill, the CEA is actively involved in the European Research Area and its international presence is constantly growing.



NUCLEAR ENERGY

BIOENERGY

GENOMICS

EMBEDDED SYSTEMS

NUCLEAR FUSION

FUEL CELL

RADIOBIOLOGY

SOLAR PHOTOVOLTAIC

RENEWABLE ENERGY

ENVIRONMENT

DEFENCE

SECURITY

NANOTECHNOLOGY

MATERIALS

THERMAL SOLAR ENERGY

HYDROGEN

RESEARCH INFRASTRUCTURES

CLIMATE



Get the most from your purification process



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

9 research centres

16,010 employees

4th place in the National Institute of Industrial Property (INPI) ranking of public and private patent applicants in 2017 (743 priority patents filed)

195 startups since 1972 in the field of innovation and technological development

55 framework agreements in force with universities and graduate colleges



www.cea.fr

11th Annual
EFIB 2018

The European Forum for Industrial
Biotechnology and the Bioeconomy

16-18 October
Toulouse, France

www.efibcongress.org

With the support of

BIOCOM AG



Organised by

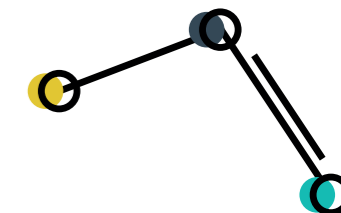


Connecting you to biobased
innovation, the UK's only
bioeconomy cluster

www.biovale.org info@biovale.org
[@BioVale_Cluster](https://twitter.com/BioVale_Cluster)

Participants' List

- | | | |
|---|--|---|
| 3f bio Ltd. | Celabor | Fraunhofer Institute for Solar Energy Systems ISE |
| Abolis Biotechnologies | Centre for Process Innovation (CPI) | G.I. Dynamics |
| ABSISKEY | Chimex | Genopole |
| ADISSEO | Chromacim | Ginkgo Bioworks |
| AgroParisTech | Chrysalix Technologies | Givaudan |
| Alfa Laval SAS | Circa Sustainable Chemicals Ltd | Glanbia |
| Arbiom Inc | Clariant Produkte Deutschland GmbH | GlobalYeast |
| ARD | Cleextral | Grand Reims |
| Arzeda Corp | CPE Lyon FCR | GreenWin |
| AS Graanul Invest | CRI Catalyst Company | Groupe Avril |
| AVRIL Group | CRISTAL UNION | GRTgaz |
| AXELERA | CRITT Bio-Industries | Haffner Energy |
| AXENS | CTTM | Heurisko GmbH |
| BGene | D&Consultants | IAR - The French Bioeconomy Cluster |
| Bio Base Europe Pilot Plant | DBFZ - Deutsches Biomasseforschungszentrum | IBISBA |
| Bio-based Industries Consortium (BIC) | De Dietrich Process Systems | IFS - Innovation Fluides Supercritiques |
| Bio-based Industries Joint Undertaking (BBI JU) | Drax Group PLC | IMPROVE |
| Bioeconomy Research Program Baden-Württemberg | E.T.I.A. | Industrial Biotechnology Innovation Centre |
| BIOLIE | ECPM (European School of Chemistry, Polymers and Materials) | INRA |
| Bioprocess Pilot Facility | Ederna | INRA - Laboratoire de Biotechnologie de l'Environnement (LBE) |
| Biorenewables Development Centre | EKATO Group | INRA - Toulouse White Biotechnology (TWB) |
| BioVale | Equipements Scientifiques | INSA Toulouse |
| BlueSens Gas Sensor GmbH | Erdyn Consultants | Institut Carnot 3BCAR |
| Bronkhorst France | Eurocob | Institut Charles Viollette - University of Lille |
| BTG-BLT | EURODIA Industrie | International Center of diplomatic cooperations |
| Buss SMS Canzler GmbH | Evertree | Intishar for Tourist Patches |
| Cabinet Bleger-Rhein-Poupon | Extractis | IPSB |
| Caspeo | FERMENTALG | IRSTEA |
| CCI MARNE EN CHAMPAGNE | Footwear Technology Center of La Rioja | |
| CEA | Fraunhofer Institute for Interfacial Engineering and Biotechnology | |
| CEA Tech | | |



SAS PIVERT

We develop with our clients and partners plant based innovative and proprietary solutions for industrial applications.

www.sas-pivert.com

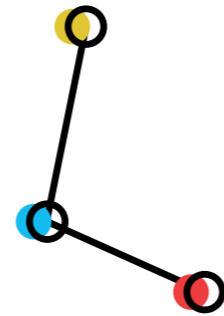


Participants' List

ITERG
 J.Soufflet
 Jesmond Engineering
 LanzaTech, Inc.
 Latvian State Institute of Wood Chemistry
 Le Mans University
 LEBAS INDUSTRIES
 LESAFFRE INTERNATIONAL
 LISBP-INSA Toulouse
 M2P-labs Microbioreactors
 Materia Nova
 Metabolic Explorer
 MetGen Oy
 Metsä Group
 Naturamole
 NeoCarbons
 Neoma Business School
 NNFC Limited
 Nord France Invest
 Norske Skog Golbey
 Nov&atech
 Novamont S.p.A.
 Novasep
 PILI
 PNO Consultants
 PNO Consultants (Brussels-EU office)

Processium
 ProSim
 Provence Promotion
 Proviridis SAS
 Puratos NV
 Région Grand Est
 RITTMO
 Royal Cosun
 SAIREM
 Sappi Austria Produktions-GmbH
 SAS PIVERT
 SATT Toulouse Tech Transfer
 SEPPIC
 SFR Condorcet
 SIEMENS Industry Software
 Siemens SAS
 Silab
 SilicoLife
 Sofinnova partners
 SOREA
 SOUFFLET Biotechnologies
 Stéarinerie DUBOIS
 STH Expert
 SUEZ
 SunOleo
 Sustainable Innovations Europe
 Syngulon

TechnipFMC
 TECOS - Slovenian Tool and Die Development Centre
 TEREOS
 Tereos Starch & Sweeteners
 TNO - Biorizon
 TOTAL
 Tournaire
 TWB
 TWB/SUPERBIO
 Twist Bioscience
 UCCS - REALCAT
 UCLL
 Unilever R&D
 Université de Lille
 Université de Nantes
 Université de Technologie de Compiègne
 University of Saarland
 URD ABI - AgroParisTech
 VEOLIA Recherche et Innovation
 Vertech-Group
 VITO
 WeylChem Lamotte
 Wilson Bio-Chemical
 Ypso-Facto
 Zeton BV



the
 gallery
 of
 possibilities
 presents



L'énergie est notre avenir, économisons-la!

GAS. THE ENERGY OF ALL POSSIBILITIES.

| GazEnergieDesPossibles.fr



Ask your team

Organised by



Event organiser



Johan DE CONINCK
Business Development Manager



Annabelle HEYVAERT
Event Officer

Programming comitee



Christophe LUGUEL
Head of International Affairs



Nina QUELENIS
Business Intelligence Manager



Jacky VANDEPUTTE
Innovation Project Coordinator

Communications



Stéphanie CLEMENT
Communication Manager



Antoine PEETERS
*Head of Partnerships
& External Relations*

Logistic & Administration



Léticia DIXIMUS
Administrative Assistant



Virginie VALET
Events Manager



And all the IAR team is happy to welcome you at BIOKET 2018!

IAR COMPETITIVE INTELLIGENCE

Gain access to the economic, technological and business knowledge of the bioeconomy.

Through our mappings, studies and reports, we analyse, explain and de-risk the business and innovation environment of our clients to enable them to make strategic decisions.

Since 2010, we have successfully advised a wide range of public and private clients including Suez, Norske Skog, Soufflet, Ademe...

"IAR has a real bioeconomy expertise. Thanks to its experience, its network and the relevance of its monitoring platform - Tremplin - IAR's work has been a true ally in our R&D reflexion."

*Myriam Fliss, R&D Manager,
Malteries Soufflet*



THE FRENCH
BIOECONOMY CLUSTER

CONTACT
US

Nina QUELENIS
quelenis@iar-pole.com
+33 6 81 98 89 00

Louis TIERS
tiers@iar-pole.com
+33 6 16 11 82 16

Practical information



Strasbourg Exhibition Center:
Place de Bordeaux 67000 Strasbourg

Tram station: Wacken



Stay connected

WIFI: BIOKET

&

Spread the world: #BIOKET



BIOKET

The global conference dedicated to
PROCESSES AND TECHNOLOGIES APPLIED TO BIOMASS



Strasbourg,
France



March 6-8,
2018



www.bioket.eu

