

## CALL FOR PAPER

### BIOKET 2022

Lille (France), March 15<sup>th</sup>–17<sup>th</sup>, 2022

To be submitted by email

prior October 29th, 2021 midnight CET to:

Johan DE CONINCK

Director of Networks & Enterprises Development

Email: [deconinck@iar-pole.com](mailto:deconinck@iar-pole.com)

The 3rd edition of BIOKET, the conference organized by IAR – The French Bioeconomy Cluster, will take place on **March 15-16-17, 2022 in Lille, France** and is looking for its next inspiring speakers!

The conference, which gathered 300+ international delegates for the last edition, aims to highlight bio-based process innovations from pilot to early commercial scale ([2021 programme](#))

Biomass is a wonderful architecture to transform into chemical intermediates, biomaterials, food and feed ingredients and energy. There is a real challenge to adapt and optimize mechanical and physicochemical processes to the different type of biomass and notably to develop a cascade of technologies to fractionate, functionalize, concentrate and purify the different constituents in order to maximize the valorization of the heterogeneity of biomass for the different markets... Emerging and Key enabling technologies and intensified process will play a significant role in the cost effective biorefineries.

BIOKET, is dedicated to **bio-based solutions and processes**, tackling **technological, economic and environmental challenges** of the Bioeconomy, will focus on innovation in processes for **biomass conversion** using **emerging technologies**, **minimizing waste** production and **optimizing economics** of the overall OPEX.

**Key Enabling Technologies (KETs) drive innovation throughout the economy, in particular the circular bioeconomy,** and cut across industries with a trend towards full convergence and integration. They underpin Europe leadership across the circular bioeconomy value chains such as **food and feed, bioenergies, biomaterials, biochemicals** and have the capacity to improve people's health and safety and drastically reverse climate change.

BIOKET's scientific committee invites authors to contribute with original papers covering the here below mentioned topics for presentation at the congress. Papers accepted for oral presentation will be given **20 minutes presentation time**.

**By submitting a paper, you agree to make yourself available for a presentation anytime during the conference (from March 15<sup>th</sup> to March 17<sup>th</sup>, 2022).**

### **BIOKET main's topic:**

- Advanced and innovative biomass pretreatment – Physical and thermochemical pretreatment – Densification - Fractionation
- Technologies for biomass conversion and functionalization
- Extraction, separation and purification of biomass
- Process modelisation and analytical methods and tools - in situ characterization technics
- Innovative tools: Enzymatic and metabolic engineering, synthetic biology and bionanotechnology
- Design of bioprocesses, advanced fermentation

### **Topics & technologies that are particularly targeted:**

#### Biotechnologies

- IT, big data, informatics implementation for Biotech Processes
- Adaptation of fermentation processes to New Feedstocks (waste, gaseous etc..), culture media optimization
- Bioreactors of the Future
- Novel Downstream processes (membranes, distillation...)
- Synthetic biology improvements (high throughput screening, robust microbial strains construction)
- Electrofermentation
- Bioinspired processes

#### Chemistry-Biochemistry

- Novel lignocellulosic biomass pretreatment/fractionation
- Valorization/extraction/processing of non-cellulose carbohydrate fractions of biomass technologies

- New advances in production processes (continuous process, micro-reactors, In Lines monitoring...)
- Novel catalysis: enzymatic, chemical and hybrid
- Electrochemistry
- Radiation chemistry
- Thermo chemical conversions

## **Sectors of application of the presented technologies:**

- Food and feed:
  - Active ingredients
  - Alternative proteins
- Chemicals:
  - Cosmetics, detergency
  - Fine chemicals
  - Biomaterials
  - Polymers, resins, coating
- Bioenergies:
  - Green hydrogen (Biomass to hydrogen)
  - Biogas
  - biofuels

## **Submissions:**

- All submissions need to be sent to the following email address: [deconinck@iar-pole.com](mailto:deconinck@iar-pole.com)
- Deadline is **October 29th, 2021 midnight CET**
- Acceptable format for abstracts are Word or PDF with a preference for PDF and must be maximum 2 pages.
- The abstract should be max 500 words length (without tables, figures, equations or references)
- The abstract can include: process concept figure, TRL, pilots or demonstrators pictures (size), Comparative Table to Position the technology in front of other existing technology (advantages and disadvantages).
- The presented technology must open of right for licensing, contract or other partnership.
- The abstract should clearly indicate:
  - ✓ Presentation title
  - ✓ Company's name
  - ✓ Speaker's name and function
  - ✓ Short biography of the speaker

## **Criteria for the selection:**

- TRL of the technology (3-9): minimum Pilot plant (close to the market), maximum 2 years of commercialization at exception of existing technologies newly applied to biomass
- Innovativeness of tools, processes and equipments
- Not academic or fundamental research focused
- Not serving as a pitch for a company to their customers
- Not a product presentation

## **Additional information:**

- Speakers will benefit from the exclusive price of 400€ excl VAT for their registration (full access the 3 days + networking dinner of the March 16<sup>th</sup> included)
- The final selection of the speakers will be held in October 2021
- Authors can submit a full session (i.e. 4 speakers on a same topic)  
In this case, the author should make sure that the session is international (at least 2 different countries should be represented and maximum 2 speakers from the same country)

## **Contact information:**

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Networks & Enterprises Development Director  
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## BIOKET SPEAKING SLOT'S APPLICATION FORM

**COMPANY:**.....

**CONTACT NAME:**.....

### CONTACT DETAILS

EMAIL: .....

PHONE: ..... MOBILE: .....

ADDRESS: .....

.....

.....

**JOB TITLE:**.....

### TOPIC IN WHICH YOUR PRESENTATION COULD BE LISTED (PLEASE TICK APPROPRIATE BOXES):

#### Area:

- Chemistry
- Biotechnology

#### TRL (Technology readiness Level) of the technology you want to present:

- |                            |                             |
|----------------------------|-----------------------------|
| <input type="checkbox"/> 1 | <input type="checkbox"/> 6  |
| <input type="checkbox"/> 2 | <input type="checkbox"/> 7  |
| <input type="checkbox"/> 3 | <input type="checkbox"/> 8  |
| <input type="checkbox"/> 4 | <input type="checkbox"/> 9  |
| <input type="checkbox"/> 5 | <input type="checkbox"/> 10 |

#### Field:

- |   |   |
|---|---|
| <input type="checkbox"/> Synthetic Biology                          | <input type="checkbox"/> Innovative Equipments  |
| <input type="checkbox"/> Fermentation processes                     | <input type="checkbox"/> Innovative tools for production processes (analysis, monitoring, sampling) |
| <input type="checkbox"/> Pretreatment                               | <input type="checkbox"/> Others, please specify:<br>.....<br>.....                                  |
| <input type="checkbox"/> Downstream processes                       |   |
| <input type="checkbox"/> New full process of biomass transformation |   |
| <input type="checkbox"/> Catalysis, biocatalysis, Hybrid catalysis  |   |

