

News on biobased resource recovery

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Dear circular economy enthusiast,

Before May ends, we are back with our Bulletin full of interesting news from the circular economy world.

The BCE community keeps growing! This time we are pleased to welcome LemnaPro, a VLAIO-LA project which aims to introduce water lentils as a new protein crop on a larger scale in Flanders.

After a first successful edition of the Biorefine Conference, where we discovered more on the innovative solutions to favor the transition towards a more sustainable resource management, new initiatives are on track to connect people working in the field of the circular economy. The Renewable Resources & Biorefineries - RRB Conference 2022 will take place in Bruges to discuss industrial biotechnology, sustainable (green) chemistry and agricultural policy related to the use of renewable raw materials for non-food applications and energy supply. More than this, the ESPC4 and the PERM5 events will follow in June to highlight phosphorus and nutrient sustainability actions and make the link between R&D, industry and policy.

In this issue, we turn our spotlights on the F-Cubed project, aiming to develop an advanced process for the hydrothermal treatment of biogenic residues to create solid, combustible intermediate bioenergy carriers for pelleting, gasification and briquetting whilst simultaneously recovering nutrients and olive pomace oil.

Breaking news from projects of our community will enrich your reading and will update you on their latest initiatives, progress and results.

And lastly do not forget to take a peek at publications and events we chose for you.

We wish you a pleasant reading!

### **The BCE Team**

Our latest updates will be waiting for you at @Bioref\_Cluster and [www.biorefine.eu](http://www.biorefine.eu). See you there!

You wish to share any news with us? Get in touch! [info@biorefine.eu](mailto:info@biorefine.eu)

### **Biorefine Community**

## **LemnaPro joins our network!**



We are happy to welcome LemnaPro in our network!

With the growing population and prosperity, the worldwide demand for proteins continues increasing. Locally grown water lentils, also known as duckweed, can provide an answer to this challenge. LemnaPro is a VLAIO-LA project which aims to introduce water lentils as a new protein crop on a larger scale in Flanders.

Learn more on the project [here](#)

### **Biorefine Community**

## **The International Conference on Renewable Resources & Biorefineries starts tomorrow in Bruges!**

**RRB 2022**  
RENEWABLE RESOURCES & BIOREFINERIES



The 18th edition of the International Conference on Renewable Resources & Biorefineries will take place in Bruges, Belgium from Wednesday 1 June until Friday 3 June 2022. Delegates from university, industry, governmental and non-governmental organizations and venture capital providers will present their views on industrial biotechnology, sustainable (green) chemistry and agricultural policy related to the use of renewable raw materials for non-food applications and energy supply

Learn more [here](#)

#### Biorefine Community

### ESPC4 & PERM5 takes place in Vienna on 20 - 22 June!



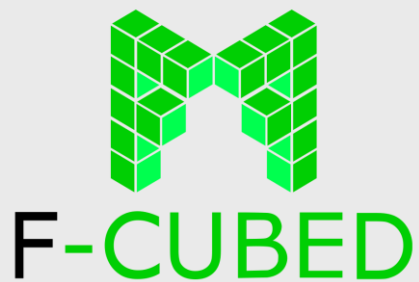
The European Sustainable Phosphorus Conferences are unique events bringing together companies, stakeholders, regional and national authorities, innovation and researchers, to discuss phosphorus and nutrients sustainability actions and policies. ESPC4, will be followed by the PERM5, the 5th Phosphorus in Europe Research Meeting, making the link between R&D, industry and policy.

The events can be also joined online!

Learn more [here](#)

#### Project's corner

### F-CUBED - Future Feedstock Flexible Carbon Upgrading to Bio-Energy Dispatchable Carriers



The F-Cubed project aims to develop an advanced process for the hydrothermal treatment of biogenic residues to create solid, combustible intermediate bioenergy carriers for pelleting, gasification and briquetting whilst simultaneously recovering nutrients and olive pomace oil.

Read more [here](#)

Filtration is a tried and tested process but Limburg Filter are taking this robust technology to a new level, developing custom made products that are more efficient, safer, minimising the impact on the environment and are flexible enough to process a huge range of industrial and manufacturing waste streams. This is why Limburg Filter are an integral part of the F-CUBED process.

Read more [here](#)



Alongside Limburg Filter's filtration technologies, the TNO developed and patented TORWASH treatment is the core technology of the F-CUBED process, enabling the efficient dewatering of a diverse range of industrial and manufacturing waste streams.

Read more [here](#)

The steel manufacturing industry is one of the largest and most important industrial sectors in the world. However, it is also one of the most energy intensive and highest coal consuming industries which has a significant impact on global CO<sub>2</sub> emissions. One of the aims of work package 2 of the F-CUBED project was to convert paper sludge into an energy carrier suitable to be used as an injectant in blast furnace processes.



Read more [here](#)



The F-CUBED Pilot Test at Delafruit, Spain

## Food for thoughts

OLEF4VALUE - [Solubility and Permeability Enhancement of Oleonic Acid by Solid Dispersion in Poloxamers and -CD](#)

Nutri2Cycle - [Differing Phosphorus Crop Availability of Aluminium and Calcium Precipitated Dairy Processing Sludge Potential Recycled Alternatives to Mineral Phosphorus Fertilisers](#)

## Project news

### Final event of the New-C-Land project



The partners of the New-C-Land project (Interreg France-Wallonie-Vlaanderen program) are pleased to invite you to their closing event which will take place on Tuesday, June 14, from 12.30pm to 5.00pm in Charleroi (Belgium). Come and discover the results of the project, its lessons learned and feedback during an afternoon of conferences.

Read more [here](#)

## Project news

### Biorefinery Pre-Treatment Integration to the HIGFLY Process



The HIGFLY process uses C5 sugars that can be produced in biorefineries using lignocellulosic biomass as a feedstock which contain three main components, cellulose, hemicellulose and lignin. The polymeric hemicellulose fraction contains various types of monomers, of which C5 sugars like xylose and arabinose are the most applicable for the HIGFLY process as they are suitable for furfural production.

Read more [here](#)

## Project news

### Bionanopolys German Stakeholder Event coming up on the 9<sup>th</sup> of June



AXIA Innovation and STFI, the German partners of Bionanopolys OITB H2020 Project, are organising an online German Stakeholder Event on the 9th of June 2022, to present the Bionanopolys Innovation Ecosystem, aiming to the production of safe nano-enable bio-based materials & polymer nanocomposites.

This open online workshop, held in English, aims to explain the Bionanopolys OITB developments, technologies, and services in the field of bionanomaterials and nanocomposites and targets SMEs, industries, research and academic institutions, end-users and other relevant audiences interested in applications, such as packaging, textiles and non-woven, 3D printing, and cosmetics.

Read more [here](#)

#### Project news

### ReNu2Farm CAP launches a survey for the recreational sector and private users



The ReNu2Farm CAP consortium developed a survey for the recreational sector and the private users to better understand the knowledge gaps that are hampering the RDFs market uptake.

Are you working in the recreational sector? or do you know people from the sector?

Support us and participate in our survey, or forward it to people that could be interested, to help us investigating the existing barriers for use of recycled nutrients and identifying the needs of the targeted sectors.

Read more [here](#)

#### Project news

### ECOFUNCO closing event



ECOFUNCO is a European research project which is developing new bio-based coatings for plastic and cellulosic substrates.

For the closing event of the project, the ECOFUNCO consortium is organising the 1st Conference on Green Chemistry and Sustainable Coatings.

The conference will take place on 17 and 18 June 2022 in Pisa, Italy, and will be streamed online.

As it will be held in hybrid modality, you can register for the in person conference in Pisa and for the online streaming.

Read more [here](#)

#### Project news

### Updates on OLEAF4VALUE



The University of Florence, together with the National Research Council (CNR) and NATAC BIOTECH has presented a study on solid dispersions and oleanolic acid titled "*Solubility and Permeability Enhancement of Oleanolic Acid by Solid Dispersion in Poloxamers and  $\gamma$ -CD*" in the frame of the [OLEAF4VALUE project](#). The study has been published in [Molecules](#), an open access journal of MDPI and is available online in [this link](#).

Read more [here](#)



### Project news

## Circular Agronomics: preliminary results on consumers behaviour regarding food waste



Reducing food waste is of crucial importance to our society. Particularly when almost one third of the food that comes into our homes is wasted.

It is not unsurprising, therefore, that one of the key targets of the UN's Sustainable Development Goals is to reduce food waste globally by 50% by 2030. In line with this, the EU Farm to Fork strategy has proposed to set a legally binding target to reduce food waste by 2023.

Our colleagues at TEAGASC have analysed consumer behaviour regarding food waste and show some preliminary results.

Read more [here](#)

## Job opportunities

[FIBL- Doctoral/e position \(deadline 6 June 2022\)](#)

### Upcoming events

## Save the date!



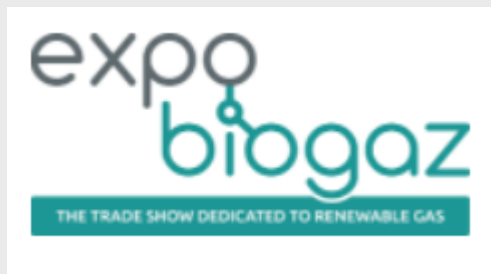
## CBE JU Info Day 2022

07 June 2022 - online

The very first CBE JU Info Day and networking event will feature speakers from the CBE JU Programme Office, BIC and the European Commission who will present the new partnership, its [Strategic Research and](#)

[Innovation Agenda](#), as well as the call topics and how to apply for the call.

[Continue reading](#)



## **Expobiogaz 2022**

**08 - 09 June 2022, Parc des expositions de Bordeaux, France**

Expobiogaz, the national renewable gas trade show, a leading event in France to discover a full range of renewable gas production solutions and value channels. At the core of a buoyant region in renewable gas resources, Expobiogaz stays as close as possible to the markets and project initiators, bringing business and development opportunities your way on a regional, national and international scale.

[Continue reading](#)



## **Waste Management Europe Exhibition & Conference**

**21-23 June 2022, Bergamo, Italy**

Waste Management Europe Exhibition & Conference takes place on June 21-23, 2022, in Bergamo, Italy. It will be the European forum for the environment community to meet, debate and agree a path for sustainable green solutions to ensure generations benefit for years to come.

WME will play host to the entire waste management value chain, making it Europe's most important event for the waste management and circular economy sector.

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*The Biorefine Cluster is supported by the European Biogas Association (EBA), a no-profit organisation which advocates for recognition of biomethane and other renewable gases as sustainable, on demand and flexible energy sources that provide multiple knock on socio-economic and environmental benefits. Learn more [here](#)*



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