

News on biobased resource recovery

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Dear circular economy enthusiast,

We are back again with a special issue taking you on a journey to discover the most inspiring news from the circular economy sector.

In this issue, we will offer you an overview on Nutri2Cycle, a project member of our growing community, which tackles the existing nutrient flow gaps in Europe and contributes to close the nutrient loop. You will also read about the opportunity to share your scientific achievements at the 17th Renewable Resources & Biorefineries Conference, a platform to discuss recent developments on industrial biotechnology, sustainable (green) chemistry and agricultural policy.

More than this, attention will be paid to the upcoming Grassification webinar on Anaerobic Co-Digestion for Roadside Grass Clippings, which will discuss the environmental benefits of this process.

Latest news and updates from projects of our community will enrich your reading and will offer you a highlight on their developments and obtained results.

And to make your reading even more interesting, do not forget to take a peek at the publications and the upcoming 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. See you there!
You wish to share any news with us? Get in touch! info@biorefine.eu

Circular economy

The BCE community is growing!



The Biorefine Cluster is happy to welcome Dairy4Future in its network! Dairy4Future aims to increase the competitiveness, sustainability and resilience of dairy farms in the Atlantic Area. The project focusses on four key issues: analysing strengths and weaknesses of the dairy sector in Atlantic Area, fostering dairy sector economic resilience, improving resource use efficiency, and determining sustainable dairy systems for the future.

Discover more on the project [here!](#)

Project's corner

A focus on Nutri2Cycle



Within the framework of the H2020 Nutri2Cycle project, the Chamber of Agriculture has implemented field trials in collaboration with the farm 'EARL Le Petit Bois' (Thézac, Charente-Maritime – France) to demonstrate the optimal use of organic fertilizers in an organic vineyard. Data and results of this trial will feed into the research line 'Biobased fertilizers (N, P) and soil improvers (OC) from agro-residues', which focuses on recycling on-farm residues.

Read more [here](#)

Within the Nutri2Cycle project, Cartif has worked on the development of two demos. The first one is on the use of an inoculate of microbiota and enzymatic pre-cursors to reduce ammonia emissions and optimize nutrient use efficiency in poultry manure. The second one is related to nitrogen and phosphorus recovery from pig manure via struvite crystallization and design of struvite based tailor-made fertilizers. Results on the trials have been recently presented at the 'International Congress of Chemical and Process Engineering'.

Read more [here](#)



A new research article titled 'Differing Phosphorus Crop Availability of Aluminium and Calcium Precipitated Dairy Processing Sludge Potential Recycled Alternatives to Mineral Phosphorus Fertiliser' has been recently published in Agronomy journal. The paper outlines phosphorus bioavailability of two different dairy processing sludge, potential alternative to mined and synthetic P-fertilisers. The results in this paper will aid the dairy industry and related stakeholders (farmers, nutrient advisors) to utilise dairy processing sludge as biobased recycled P alternative to mineral P fertiliser.

Read more [here](#)

Ms. Elizabeth Bourke of St Mary's College in Arklow, Co. Wicklow conducted her school science project on the topic 'Nutrient recycling efficiency using bio-based organic fertilisers' by taking part in the Nutri2Cycle partner Teagasc's field investigation on Spring Wheat trial in 2020 using bio-based fertilisers.

Read more [here](#)





Recently, Nutricycle Vlaanderen (the Flemish National Task Force of Nutri2Cycle) published a brochure, on how to use ammonium sulphate as a fertilizer. This practical guide will help farmers to get familiar with the properties and advantages of this product.

Read more [here](#)

Circular economy

Conference on Renewable Resources and Biorefineries - RRB 2021



The 17th edition of the International Conference on Renewable Resources & Biorefineries will take place in Aveiro, Portugal from 6 to 8 September 2021. The conference aims at providing an overview of the scientific, technical, economic, environmental and social issues of renewable resources and biorefineries to give an impetus to the biobased economy and present new developments in the area.

The call for oral presentations is open. You can submit your abstract [here](#) by 1 April!

Learn more on the RRB 2021 Conference [here](#)

Project news

Grassification webinar on Anaerobic Co-digestion for Roadside Grass Clippings



The Grassification project is delighted to invite you to its webinar on 'Anaerobic Co-Digestion for Roadside Grass Clippings' on 20 April from 10:00 to 11:45 CET. During the event, project partners involved in an exploratory digestion test on pilot scale will showcase the practical aspects, the techno-economic assessment and the environmental benefits of the process. The webinar will be also held in Dutch on Thursday 22 April 2021, from 19:00 to 20:45 CET, with a focus on Flemish and Dutch farmers who wish to know more about the topic.

Check out the programme and register [here](#)

Project news

AGRIMAX: Webinar training session on agricultural by-products valorisation through bio-refineries



On 15 April, AGRIMAX will hold a training session aimed to share the knowledge generated on Circular Bioeconomy and on the concept of biorefinery in the framework of the [AGRIMAX project](#).

Through this webinar the experiences from AGRIMAX will be transferred to the academic sector, both at the level of researchers and teachers and at the level of university students and postgraduate courses.

Read more and register [here](#)

Project news

Renu2Farm at Les Cultureles



Les Culturales is the place to be for French and international professionals of the arable crop sector. This biennial international event will take place from 15 to 17 June 2021, in Betheny, France. Arvalis, French partner involved in Interreg-NWE ReNu2Farm, will take this opportunity to transfer knowledge resulting from the project.

Check out more info on the event [here](#) and stay tuned to know more on the Renu2Farm project!

Project news

The ALG-AD webinar series continues...



The ALG-AD consortium continues organising its webinar series aimed at presenting and discussing project activities related to digestate processing, algal cultivation and the potential commercial markets for microalgae. Did you miss the previous webinars? Access the ALG-AD [YouTube](#) channel and check them out!

Do you want to know more on the future events? [Signup](#) to the ALG-AD newsletter!

Project news

Run4Life at the Water Projects Europe



Run4Life will participate on March 26th in “WATER PROJECTS EUROPE: Water in the Circular Economy Policy development”, organised by Water Europe in cooperation with EASME and the NextGen

project. Annika Nordin of the Swedish University of Agricultural Sciences will present on behalf of Run4Life, addressing fertiliser regulations and the nutrient recovery from wastewater and food waste at the [project demo-site](#) in Helsingborg.

Read more [here](#)



French producers of recycling-derived fertilisers share their experience - Interreg ReNu2Farm project

Laurent Varvoux, co-leader of the Nitrogen and Sulphur group at COMIFER, and 3 French producers shed light on what recycled-derived fertilisers (RDF) are and the opportunities they can offer in terms of fertilisation and sustainability.

Food for thought..

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

[Science Direct - Recent technologies for nutrient removal and recovery from wastewaters: A review](#)

Upcoming events

Save the date!



ePYRO2021 - International eConference on Analytical and Applied Pyrolysis

12-13 April 2021, online

The ePYRO Conference will be held on 12 and 13 April 2021, as a way to bridge the gap between PYRO2018 in Nagoya and the future PYRO2022 in Ghent. The organizers wished to bring the pyrolysis science community together by inviting research leaders of well-known groups from all over the world. The ePYRO 2021 Conference will offer a very varied 2-day program with the cooperation of many renowned senior scientists, promising young scientists and finally some sponsor related speakers.

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29th European Biomass Conference & Exhibition - EUBCE 2021

26-29 April 2021, online & Marseille, France

EUBCE is the largest biomass conference and exhibition in the world. During the conference, over 2,000 experts from both academia and industry share and discuss groundbreaking ideas, technologies, applications, and solutions for the sourcing, production, and utility of biomass. This year, the Conference will focus on sustainable resources for decarbonising the economy, biomass conversion for bioenergy, biomass conversion to intermediate bioenergy carriers, sustainable biofuels and bio-based products, impacts and policies for sustainable bioeconomy, strategies for biomass integrated into energy systems.

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RAMIRAN 2021

20-23 September 2021, Cambridge, United Kingdom

RAMIRAN "Recycling of Agricultural, Municipal and Industrial Residues in Agriculture Network" is a research and expertise network set up over 25 years ago to improve nutrient utilisation and minimise the environmental impact from livestock manure and other organic material use in agricultural systems.

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Phos4You Final Conference

22-23 September 2021, Essen, Germany & online

After four years of cooperation, the Phos4You partnership would like to invite you to the project's final conference. The programme will include plenaries, multi-stakeholders discussions, a poster exhibition, an excursion to a Phos4You demonstrator and plenty of opportunities to enjoy, exchange and network. Speakers will be Phos4You actors in the fields of wastewater treatment and sewage sludge incineration, recovery processes and research.

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ManuResource 2021

24-25 November 2021, 's Hertogenbosch (NL)

Circular agriculture with low emissions and nutrient recovery from manure is high on the European Union agenda. ManuREsource is an international triple-helix conference for scientists, policy makers, consultants, farmers and professionals on the theme of manure management. The conference aims

to accelerate the transition towards a circular economy by exchanging experiences and knowledge with concerned international stakeholders and policy makers

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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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