

News on biobased resource recovery

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Dear circular economy enthusiast,

We are back again with a new issue of our Bulletin, gathering the most interesting news from our community!

This time we are happy to welcome in our network two new projects, HOOP and BioeconomyVentures, which are joining us to work together toward a more circular economy.

In this issue we turn our spotlight on the Dairy4Future project, which aims to increase the competitiveness, sustainability and resilience of dairy farms in the Atlantic area, by identifying, evaluating and widely propagating innovative practices. Check below their activities and results to discover more on the project!

Along with that, you will read breaking news on projects from our community and you will be updated on their latest initiatives, progress and results.

And to make your reading even more interesting, in this edition, we would like to highlight some frontrunning papers related to the use of biochar as an amendment for ameliorating metal contamination in soils!

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

Biorefine community

The Biorefine network is growing!



The Biorefine is happy to welcoming HOOP and Bioeconomy Ventures in its community.

[HOOP](#) supports 8 lighthouse cities and regions in developing large-scale urban circular bioeconomy initiatives that will focus on making bio-based products from urban biowaste and wastewater.

[BioeconomyVentures](#) aims to build the reference platform for bioeconomy-based start-ups and spinoffs seeking to gain access to finance, becoming the main meeting point in the European bioeconomy.

Project's corner

Diary4Future



The Dairy-4-Future project aims to increase the competitiveness, sustainability and resilience of dairy farms in the Atlantic area. The project puts innovative farmers at the centre of practice-based research work, and combine several methods to adapt and develop scientific knowledge, which will lead on technical solutions and recommendations to be shared across the network.

Read more [here](#)

From Northern Ireland to Portugal, 89 farmers in the Atlantic area responded to a survey to assess the effect of external factors on the economic success of their business.

The online survey, addressed to the pilot farmers of the European Dairy4Future project, was carried out in spring 2020.

Read more [here](#)



Over the past few decades, European dairy production has known a strong restructuring in most of the countries. That restructuring is characterized by an important reduction of the number of dairy farms, and in parallel, an increase of the production on the farms that have maintained the dairy activity.

Read more [here](#)



A video of the series « Dairy4Future presents the pilot farms » produced under the European project Interreg – Dairy4Future. Interview of Eric and Damien Odienne,

dairy farmers in Orne (France). Presentation of the dairy farming system and the innovations put in place.

Project news

Phos4You final conference took place successfully



The conference marked the conclusion of the 5-year Phos4You project. After a long period of almost exclusively digital meetings, the event took place as a hybrid meeting. In conformity with Corona, 60 participants were able to meet in Essen in the Ruhrturn; in parallel, the conference was streamed online, so that discussions could be performed with 200 participants across Europe.

Read more [here](#)

Project news

ECOFUNCO – Enhancing natural biopolymers to improve bio-based coatings



ECOFUNCO objective is to extract and functionalise molecules from biomass sources to develop new bio-based coatings for cellulosic and plastic substrate. The team of researchers behind ECOFUNCO is working tirelessly to develop new materials and to adapt already available techniques to the current and foreseen market requirements.

Read more [here](#)

Project news

Alg-AD completes experimental trials to test microalgal biomass grown on digestate as a fish feed



ALG-AD partners in France and the UK have been working hard over these last few months to conduct a series of trials, to test microalgae grown on digestate as a fish feed. The objective of these trials was to explore alternatives to fish meal and oil in commercial fish feeds, as there is increasing demand for sustainable aquaculture in North-West Europe, and these fish by-products are often sourced by the exploitation of natural stocks.

Read more [here](#)

Project news

Agrimax: making a positive impact towards Europe's food waste problem



After five years, Agrimax, the Bio-Based Industries Joint Undertaking project, which has built two ground-breaking pilot plant facilities in Spain and Italy has come to an end. The project has successfully demonstrated how unavoidable crop and food-processing waste can be turned into multiple, high-value bio-based products for the food-ingredients, food-packaging and farming sectors.

Read the entire press release [here](#)

Project news

ReNu2Farm CAP: Take part in the survey for the horticulture sector!



The ReNu2Farm Capitalisation initiative will stimulate new markets for increased RDF (Recycling-Derived Fertilizer) use and decrease mineral fertiliser usage in North-West Europe. Are you working in the horticulture sector? Support RN2F by participating in the survey or forwarding it to people active in the horticulture sector!

Read more [here](#)

Project news

Final workshops of the Run4Life project!



On November 30th, after 4.5 well-spent years, the Run4Life project comes to an end. Different municipalities and other stakeholders gather on November 25th for a workshop on replication of the Run4Life concept to other cities, and November 30th closes with the third Innovation Workshop.

Read more [here](#)

Project news

Launching of the VALUEWASTE Plant in Cañada Hermosa!



On the 17th of November 2021, the VALUEWASTE Plant in Cañada Hermosa in Murcia (Spain) opened its doors to the consortium, the media and local policy representatives to officially launch the start of the valorisation activities of the project.

Read more [here](#)

Project news

LEX4BIO and FERTIMANURE at the International Conference on Strategies toward Green Deal Implementation



Within the framework of the 2nd International Conference Strategies toward Green Deal Implementation – Water, Raw Materials & Energy, LEX4BIO and FERTIMANURE, two H2020 projects dealing with the sustainable and circular management of the nutrients-rich waste, are organising a joint event entitled ‘Bio-based fertilizers of the Future’. The event will take place online on 9 December 2021, 9.00-11.00 CET.

Read more [here](#)

Project news

GlasPort Bio awarded the coveted Sustainable Energy Authority of Ireland (SEAI) award for Excellence in Energy Research and Innovation



Irish biotechnology company, and Biorefine Cluster member, GlasPort Bio (www.glasportbio.com), have recently been awarded the coveted Sustainable Energy Authority of Ireland (SEAI) award for Excellence in Energy Research and Innovation, along with a €10,000 bursary.

Read more [here](#)

Project news

Frontrunning Publications on Biochar

The use of biochar as an amendment for ameliorating metal contamination in soils continues to gain prominence.

Findings from the highlighted papers demonstrated that biochar could deliver considerable reductions in the availability of lead, zinc, and cadmium in diffusely contaminated soils.

The specific properties responsible for this effect as identified by the authors include: (i) the presence of siloxanes on biochar surface (ii) strong alkaline pH and metal complexation capacity of biochar (iii) sorption of dissolved organic carbon onto the biochar surface.

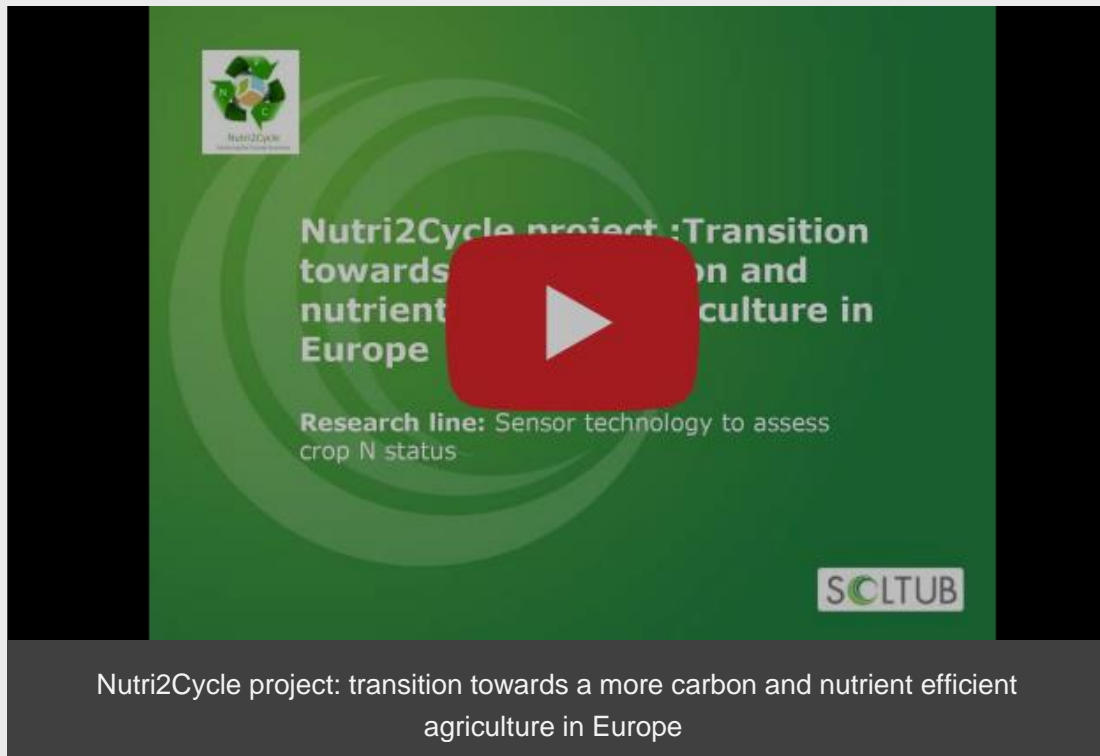
Check the publications below!

- **Soil lead immobilization by biochars in short-term laboratory incubation studies**
- **Chemical stabilization of Cd-contaminated soil using biochar**
- **Impact of organic amendments (biochar, compost and peat) on Cd and Zn mobility and solubility in contaminated soil of the Campine region after three years**

Contact Caleb Elijah Egene (calebelijah.egene@ugent.be) or Erik Meers (erik.meers@ugent.be) if you would like a copy of the papers sent to you.

Get involved..

[UGENT – PhD position on nutrient recycling](#)



Upcoming events

Save the date!



AlgaeEurope 2021

7-10 December 2021, online

Algae have become a multi-billion sector in terms of biotechnology development that is expected to grow rapidly, providing valuable goods and services in multiple applications. AlgaeEurope is a unique opportunity to learn and understand all about algae production and commercialization and interact with over 350 key players from more than 45 countries.

[Continue reading](#)



RAMIRAN 2020

19-21 September 2022, 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.

[Continue reading](#)

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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