



Biotechnology and  
Biological Sciences  
Research Council



Engineering and  
Physical Sciences  
Research Council



(Photo courtesy of Jan Kroon at Pexels.com)

[UN World Soil Day](#) – 5 December

## EBNet Newsletter - November 2020

### News

The first specialist webinar in our planned series to replace the Research Colloquium attracted a high degree of interest - including many old and new industry members - which is most welcome! Together, Dr Drew Wang, Virginia Tech, USA and Prof. Jeremy Webb, National Biofilms Innovation Centre (NBIC) explored the biology and engineering of [Aerobic Granules](#) guided by our able Chair, Dr Yongqiang Liu, University of Southampton. On the side of "nature" - insights included the growing role of RAMAN spectroscopy for real time monitoring, the role of Nitric Oxide, Quorum Sensing Inhibitors and Bacteriophages in biofilms and granule biogeography. And from "nurture" the interplay of Feast/Famine regimes and Settling Velocity selection pressures (amongst other operational parameters) to granule formation in real waste water case studies. Personally, I hadn't considered the role of evolution at the community scale in that way before. What was your takeaway? Do let us know your thoughts at the post-event survey [here](#).

### Now Open

The EBNet Webinar series continues - spread the word...

#### [Biosensors and Environmental Monitoring – New Developments in Environmental Biotech](#)

Tuesday, 17 November 2020 at 12:00 – 1:30pm GMT

#### [Sustainable Biological Removal of N and P - Advances and Challenges for Environmental Biotech](#)

Tuesday, 1 December 2020 at 12:00 – 1:30pm GMT

#### [Organohalide Bioremediation - Current Approaches in Environmental Biotech](#)

Tuesday, 12 January 2021 at 09:00 – 10:30am GMT

#### Next Quarterly EBNet [Placement Call](#)

Deadline: 16 November 2020

Awards have a value of up to £1,500 for UK-based placements and £3,000 for overseas placements. Thinking about a "socially distanced" placement/training? Email to see if we can help.

## ECR Conference [Travel Bursary](#)

For support worth up to £1,500.

*([Get in touch](#) if you would like our help to hold an event - including webinars. We are always looking to support enthusiastic members to explore topics of wider interest.)*

## Spotlight On...

**Congratulations** to our EBNet Co-PI, Dr Tony Gutierrez, Heriot-Watt University for his new NERC award: *Sources, Sinks and Solutions for Impacts of Plastics on Coastal Communities in Viet Nam*. This £3.5M joint project combines research into economics, marine environments and pollution/waste/resources to take a cross-disciplinary view of plastics.

### Can a member enlist your help with their market survey?

The *MicrobeMeter* is a microbial growth measurement device developed by Humane Technologies Ltd. – a spin-out company from the University of Warwick. They are conducting market research aimed at users of microbial growth-monitoring devices. If this is you, and you want to help make their equipment better suited to your needs find their survey [here](#) and further information on their equipment can be found [here](#).

*Do you have any good news to share with other members? Email us details if you want a shout-out in the next newsletter.*



## Forthcoming Events

*Find selected upcoming events below or look further ahead with our online [Google calendar](#).*

*What have we missed? Whether local or international, niche, general interest or 3rd party - provided the topic is EB, we can share with the wider membership.*

### [KTN: Accelerating Net Zero Chemical Manufacturing: Waste polymers as a feedstock](#)

24 November 2020

### [KTN: #IdeasMeanBusiness: The legalities of running a small business](#)

25 November 2020

### [THYME Project: Sustainable Waste Water Treatment and the Bioeconomy](#)

26 November 2020

### [CIWEM: The FABSOIL \(Fabricated Soils\) Project](#)

8 December 2020

### [Decarbonising Yorkshire with Anaerobic Digestion](#)

15 December 2020 - Webinar

### [KTN: Addressing the Challenge of Microfibres - from source of production to environmental contamination](#)

17 December 2020

### [IES Webinar: Exploring world class landscape restoration](#)

13 January 2020

### [CIWM: Resource Conference Cymru](#)

16 March 2021, Sophia Gardens Cricket Ground, Cardiff

### [CIWM: Resourcing the Future Conference](#)

8-9 June 2021, One Great George Street London

### [RSC: MOFs for energy and the environment - Faraday Discussion](#)

23 - 25 June 2021, Manchester

For more, go to: [Events Roundup](#)

## Funding

Funding opportunities for academia and industry are highlighted below.

Want a partner? Contact us with your details and we can connect you with members with similar interests or put a request out through the network



### [Leverhulme: Research Fellowships](#)

12 November 2020

### [Leverhulme: Research Project Grants](#)

1 December 2020

### [NERC: Knowledge Exchange Fellowships](#)

2 December 2020

### [KTN-iX Challenge - Environmentally sustainable compounds for hair conditioners](#)

11 December 2020

### [FEMS Research and Training Grants](#)

Deadline(s): 1 January 2021/ 1 July 2021

### [Leverhulme: Study Abroad Studentships](#)

11 January 2021

### [The Branco Weiss Fellowship – Society in Science](#)

15 January 2021

### [HVB: Business Interaction Voucher](#)

19 January 2021

### [The Horticultural Quality and Food Loss Network \(HortQLNet\) – various](#)

Deadline: 21 January 2021

### [Privilege Finance Student sponsorships](#)

28 February 2021

### [The Institution of Engineering and Technology \(IET\) - various](#)

### [ESRC: New Investigator Grants](#)

For social sciences at the interface with the wider sciences.

### [HVB: Training Fund](#)

For more, go to: [Funding Roundup](#)



## Training, Awards, PhDs & Jobs

Did you know we have funds available to help members access placements in industry or academia. Could you host one to share what you know? Contact us now.

### [Training](#)

### [EMBL-EBI. Bioinformatics training – various](#)

### [Awards](#)

### [The Rushlight Awards](#)

30 November 2020

### [The Royal Society Rosalind Franklin Award and Lecture](#)

Deadline January 2021 (tbc)

### [RSC Awards - various](#)

### [PhDs \(See \[FindaPhD\]\(#\)\)](#)

#### **Dry-batch anaerobic digestion (AD)**

A joint Cranfield University/Universite de technologie de Compiègne (UTC) fully funded PhD.

If interested, please send a CV by email to [Dr Yadira Bajon Fernandez](#) by no later than Friday 13 November 2020.

#### **Assessment of tyre wear microdebris in the environment**

University of Southampton. Deadline: 4 January 2021

#### **Microplastics and carbon sequestration: identifying links and impacts**

University of Southampton. Deadline: 4 January 2021

#### **Size matters: how does microplastic and nanoplastic size influence their abundance and toxicity in the aquatic environment?**

University of Southampton. 4 January 2021

### **Jobs**

Knowledge Transfer Partnership (KTP): Find all graduate jobs [here](#).

## Publications

### [A critical view on the current application of LCA for new technologies and recommendations for improved practice](#)

Coenvan der Giesen *et al.* Journal of Cleaner Production, Volume 259, 20 June 2020, 120904

### [Microbial fuel cell-based biosensor for online monitoring wastewater quality: A critical review](#)

Minh Hang Do *et al.* Science of The Total Environment, Volume 712, 10 April 2020, 135612

### [Long-run bacteria-phage coexistence dynamics under natural habitat conditions in an environmental biotechnology system](#)

Guerrero, L.D., Pérez, M.V., Orellana, E. *et al.* ISME J (2020).

## Still here?

Christmas is coming but how to personalise gifts?

[Giantmicrobes](#) have added a COVID-19 plush toy to their collection. (Topical, but of questionable taste.) [Etsy](#) do a variety of knitted versions, along with any other imaginable handcrafted items. Repurposed Bioreactor Lamp or Petrie-dish cookie cutter anyone? But the office favourite are children's books by [Micronovo](#), illustrating the world of microbiology for the very young.

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