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## EBNet Newsletter - July 2023

### New

#### **EBNet Webinar: Bioelectrochemical Systems – from fundamentals in robotics to real world applications**

Thursday, 20 July 2023, 10.00-11.00 (BST)

Join us to hear from Professor Yannis Ieropoulos, University of Southampton. This is the latest webinar from the EBNet Working Group "[Bioelectrochemical Development for Environmental Technology](#)". Register [here](#).

#### **New EBNet Working Group - Early Career Researcher**

This is the latest [working group](#) to join our rostra. Led by [Dr Anjali Jayakumar](#), Newcastle University, this aims to create a supportive space for ECRs who specifically work in environmental biotechnology to support, inspire, and empower each other. Meet up at [ECR23](#), or contact Anjali to join the group.

#### **Can you help?**

Do you know of anyone whose uses SEM to image biofilms growing on hard plastics and/or on biochar? If so, contact us at [EBNet@EBNet.ac.uk](mailto:EBNet@EBNet.ac.uk)



### Now Open

*EBNet funding opportunities for academia and industry are highlighted below.*

#### **EBNet Short Story Competition. Theme: Microbes to the Rescue!**

Now open. Deadline: 21 September 2023.

£500 prize (or local currency equivalent) plus runners up prizes of £200 (2nd) and £100 (3rd) place.

This short story competition is a collaboration between the [Green Stories Project](#) and EBNet. Green Stories writing competitions are a series of **free** writing competitions across various formats to solicit stories that showcase what a sustainable society might look like.

(Research indicates that stories are a powerful communication tool!) Their latest competition is sponsored by EBNet and may appeal to writers with a scientific bent as it

aims to use fiction to raise awareness of Environmental Biotechnology and what microbial systems can do for us.

Do pass this round widely - it may have broad appeal. Now open [here](#).

### [EBNet Early Career Researcher Conference \(ECR23\)](#)

30 August-1 September 2023, Edinburgh

There is still time to [register](#) for this popular, entirely free 2-day conference. The deadline for abstracts (31 July) is fast approaching - be sure to send us your abstract now to secure a place.

### [EBNet Proof of Concept Call](#)

Deadline: 15 August '23. Notification: end November 2023.

This final open "mop-up" call is sufficient to fund a single £50K or several £25K bids. Can you come up with something new and exciting which will provide a platform for future impact? Details [here](#).

### [EBNet Placement Call](#) - Always open

These are worth up to £1,500 for UK-based placements and £3,000 for overseas placements.

### [ECR Conference Travel Bursary](#) - Always open

Looking to present your work at a major conference and lack funding? Given the increased cost of international flights we have raised our support to **£2,000** (max.) for full oral presentations to our listed conferences in 2023/24. Send in your application as soon as you are notified - we have a number set aside for each conference!

### [EBNet: ECR Share With A Peer \(SWAP\) Travel Bursary](#) - Always open.

Proud of the work going on in your lab? Fancy a visit to another lab tackling similar topics? We have just the thing for you, We can offer **up to £250\*** towards accommodation, meals, and travel per person - just make a short video clip &/or pictures suitable for our website. [Flyer](#).

### [E3B/EBNet: Bio-recovery of technology-relevant metals](#) - Poster\* session open

12-14 December 2023, Hyatt Regency Hotel, Manchester. Attendance, meals and overnight accommodation are free

EBNet are supporting this E3B led event with a **joint Poster session**. Register [here](#) now - before the event reaches maximum capacity! Are you working on the biorecovery of metals, bioremediation or want to learn more about the enzymes or industrial applications?

This is a chance to learn about the very latest research from across the UK. ECR? We have a limited number of £200 Travel Bursaries\* to facilitate attendance from our members to this co-badged event. First, register for a place via E3B. Then just email us direct to request a bursary. (\*You must contribute to the poster session for support.)

## Spotlight On...

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



### **New UKWIR Report:** [Air pollutant emissions across wastewater operations](#)

This study establishes the potential sources of five pollutants - ammonia (NH<sub>3</sub>), non-methane volatile organic compounds (NMVOCs), nitrogen oxides (NO<sub>x</sub>), Particulate Matter (PM<sub>2.5</sub>) and sulphur dioxide (SO<sub>2</sub>) - in wastewater and bioresources treatment, and quantifies the impact at both a local and national level.

### **KTN-iX Challenges**

Want to see what industry are seeking help with? Keep an eye on the latest challenges from industry at [KTN-iX Challenges](#). The eclectic range are constantly updated.

### ***Are you getting the latest information from us?***

More people are turning to EBNet for speedy access to events, reports, jobs, PhD/Postdoc positions etc.

Join us on [LinkedIn](#) and [Twitter](#).



## Forthcoming Events

Find selected upcoming events below.

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

[BioIC: Careers Day - Exhibit from Industry](#) - 26 July 2023, Glasgow

[CircularChem: Circular Chemical Economy Summer School 2023](#) - 5-7 September 2023, Newcastle upon Tyne

[The Resource and Waste Management Expo](#) - 13/14 September 2023, NEC, Birmingham

[BCB: Net Zero Chemical Manufacturing - Unlocking the power of biotechnology to transform the UK chemicals industry webinar](#) - 14 September 2023

[The Biochemical Society: Green Microalgae: The promising sustainable cellular factory for a greener future](#) - 25 September 2023

[The Microbiology Society: What's in a Name? Fit-for-purpose bacterial nomenclature](#) - 26/27 September 2023

[Scottish Resouces Conference 2023](#) - 3/4 October, Perth, Scotland

[Synthetic Biology UK 2023](#) - 6-7 November 2023, Bristol

[HVB: Annual Meeting](#) - 14-15 November 2023, Manchester

[18th IWA World Conference on Anaerobic Digestion](#) - 2-6 June 2024, Turkey

[IWA: International Conference on Wider-Uptake of Water Resource Recovery from Wastewater Treatment](#) - 18-21 June 2024, Italy

[IWA: World Water Congress & Exhibition](#) - 11-15 August 2024, Toronto, Canada

## Funding

Funding opportunities for academia and industry are highlighted below.

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



[Algae-UK: 8th Business Interaction Voucher call](#) - 14 July 2023

[Royal Society of Chemistry: Researcher Development and Travel Grant](#) - rolling monthly

[Innovate UK: Engineering biology collaborative R&D round two](#) - 26 July 2023

[BBSRC: Partner with international researchers on AI for Bioscience](#) - 24 August 2023

[BBSRC: Innovation to Commercialisation of University Research \(ICURE\)](#) - 28 August 2023

[Innovate UK: UK-Israel Eureka bilateral collaborative R&D](#) - 13 September 2023

[UKRI: Equitable nature-based climate resilience in Sub-Saharan Africa](#) - 13 September 2023

[Ukraine Energy Innovation Competition](#) - 15 September 2023

[NERC: Engaged Environmental Science](#) - 20 September 2023

[EMBL: ARISE Fellowship](#) - 30 September 2023

[RAEng: Enterprise Fellowships](#)

[Innovate UK: Innovation loans](#)



## Jobs, Training, Awards & PhDs

Did you know we have funds available to help members access placements in industry or academia?

**Jobs (also see [FindAPostDoc](#) & [Jobs.ac.uk](#))**

[Research Fellow](#) - 23 July 2023, Queen's University Belfast

[Research Assistant or Research Fellow](#) - 30 July 2023, Cranfield University

[Wildlife Monitoring Engineer](#) - 11 August 2023, UK Centre for Ecology & Hydrology

[PDRA in Environmental Microbiology](#), ASAP, University of Pittsburgh

[Senior Research Fellowship in Life or Environmental Science](#) - 15 September 2023, All Souls College

**Training**

[CIWEM: Municipal waste water treatment](#) - 14 August 2023

[Royal Society of Biology: Microscopy & Microbiology Training](#) - 6 September 2023, Brunel University

[Royal Society of Biology: Introduction to Programming for Biologists Using Python](#) -

27 October 2023

[IChemE: Chemical Engineering for Scientists and Other Engineers](#) - 21 November 2023, Manchester

[Royal Society of Biology: Analysing and Visualising Data with Python for Biologists](#) - 26 January 2024

[FutureLearn](#) courses various, including:

*Small and Mighty: Introduction to Microbiology*, University of Reading

*Biochemistry: the Molecules of Life*, UEA

*Soil Science: Exploring the World Beneath our Feet*, Lancaster University

*Introduction to Practical Microbiology*, BSAC...

#### **Awards and Competitions**

[Microbiology Society: Travel grants](#) - 1 September 2023

[Water Reuse Europe Innovation Prize 2023](#) - 11 September 2023

[Microbiology Society: Education and Outreach Grants](#) - 2 October 2023

[NBIC: Biofilm Create! Art and Photography Competition 2023](#) - 20 October 2023

[RAEng: Ingenious awards](#)

[AMI: Applied Microbiology Product of the Year](#)

#### **PhDs (see [FindaPhD](#))**

[Leveraging polysaccharide degrading abilities of wastewater treatment microbiomes to develop clean future polymers](#) - 15 July 2023, The University of Manchester

[Adaptation of Mycobacterium to acidic pH](#) - 15 July 2023, Monash University

[Critical Metal Recovery from Wastes using Bioleaching and Electrodialysis](#) -

Applications accepted all year round, University of Nottingham

## **Publications**

[Engineering biology in the face of uncertainty.](#)

By: Sloan WT, Gómez-Borraz TL. In: *Interface Focus* 13: 20230001

[Harnessing the power of natural minerals: A comprehensive review of their application as heterogeneous catalysts in advanced oxidation processes for organic pollutant degradation](#)

By: Hongwen Liu *et al.* In: *Chemosphere*. Available online 1 July 2023, 139404

[Review Article: The primary molecular influences of marine plastisphere formation and function: Novel insights into organism-organism and -co-pollutant interactions](#)

By: Charlotte E. Lee *et al.* In: *Critical Reviews in Environmental Science and Technology*. Volume 53, Issue 17 (2023)

[Review: Current Trends in Bioaugmentation Tools for Bioremediation: a Critical Review of Advances and Knowledge Gaps](#)

By: Olga Muter. In: *Microorganisms* 2023, 11, 710.

[Genetically engineered microorganisms for environmental remediation](#)

By: Hamza Rafeeq *et al.* In: *Chemosphere*. Volume 310, January 2023, 136751

## **Still here?**

#### **Science Communication - whats on?**

Summer/autumn is a busy time for festivals of all kinds, including for science communication. Some of the biggest are the [Royal Society Summer Science Exhibition](#), the [British Science Festival](#) and [New Scientist Live!](#). Since most cities hold them, there is bound to be one near you. Getting hands on with science can be rewarding for adults, and inspirational for the young. And since almost every professional body and academic society has outreach or engagement funding readily available for their members, maybe some of this could be put to good use raising the profile of EB?

You can update your preferences or unsubscribe from this list.