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**Water Innovation
& Research
Centre**



**UNIVERSITY OF
BATH**

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Upcoming events

University of Bath Institute for Policy Research (IPR) / Reflections on UK rivers and aquatic ecosystems / online event / 3rd February 2021/ 6.00 – 7.15pm. [Register here.](#)

The climate crisis; a growing population; and intensive farming, development and industry needs are perpetually adding to the over abstraction of our water environments. It is vitally important that we find the right balance between our daily water needs and nature. Our water environment is a precious resource

Trust (**Richard Higgs**), Natural England (**Dr Rose O'Neill**) and the Environment Agency (**David Dangerfield**). The event also features IPR Director, **Professor Nick Pearce**, and will be chaired by **Professor Jan Hofman** [WIRC website](#).

REDAWN / Reducing Energy Dependency in Atlantic Area Water

Networks/ final project virtual event – REDAWN & Beyond / 9th February 2021. [Register here](#).

Join us for a lively event by the REDAWN team and external partners exploring the potential for energy recovery in water networks. The event will present the key results and successes from the research, engage stakeholders with a range of interactive activities and discuss the merits of MHP technologies to the Atlantic Area and beyond. For more information, please visit the [REDAWN website](#).

Please note that all these events are free and open to all.

[Upcoming WIRC water colloquia](#)

- 18/02/2021: [Franciszek Bydalek](#), GW4 FRESH CDT PhD student + another guest speaker (tbc). Title: “Microbial ecology and fate of pathogens in constructed polishing wetlands”
- 11/03/2021: [Prof Annemarie van Wezel](#), University of Amsterdam. Title: “Risk assessment and risk mitigation in water quality”
- 04/2021: [Prof Maria Kennedy](#), IHE Delft Institute for Water Education (date tbc). Title: “Assessing biofouling in seawater reverse osmosis systems”

All webinars will take place from 13.15 to 14.05 via Microsoft Teams. Full details for each, including registration information, will be distributed in due course. If you would like to present your research at our water colloquia series, please contact Dr Stuart Bennett (sb2454@bath.ac.uk).

[Upcoming GW4 WSA webinars](#)

- 05/02/2021: [Dr Ifan Jams](#), University of Cardiff. Title: “Plastic Pollution in Freshwater Ecosystems”
- 12/02/2021: [Simon Evans](#), The Wye and Usk Foundation.
- 19/02/2021: [Dr Eirini Nikoloudi](#), WISE CDT graduate. Title: “Event Management and Event Response Planning for Smart Water Networks”

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- 05/02/2021: [Saeed Parnow](#), University of Tehran. Title: “Ground Sensing for Qanats”

For full details, including registration information, please visit <https://gw4water.com/events/gw4-wsa-webinar-series/>. If you would like to present your research at the GW4 WSA webinar series, please contact Dr Stuart Bennett (sb2454@bath.ac.uk).

News

WIRC external organisation membership

WIRC is a member of a variety of national and international water-related organisations and bodies. We do this to extend our networks and to gain access to information and events for the benefit of all members of WIRC. In most cases indicating your membership of WIRC@Bath will gain free entry to events, or reduced rates at least. In some cases, these organisations have online databases of information, data, or other resources such as white papers, and we can provide access information for those interested. Please find below summaries of the organisations of which WIRC is currently a member, and what benefits they bring. If you are interested in any of the below, please don't hesitate to contact Dr Tom Arnot (cestca@bath.ac.uk) to find out more.



The UK Water Partnership (UKWP)

<https://www.theukwaterpartnership.org>

The UKWP was established in 2015 to provide a strategic vision for the development and growth of the UK water industry. The UKWP aims to bring the UK water sector together into a single, coherent body in order to promote understanding, cooperation and coordination. The UKWP's stated aims are:

- Identify key strategic water challenges and establish pathways and funding mechanisms to stimulate change in action
- Create national water partnerships with UK governments to address national water challenges

Being a member of the UKWP provides opportunity to influence the UK water sector, gives WIRC@Bath enhanced visibility, and routes to impact and delivery of research. Jan Hofman and Tom Arnot are members of the UKWP Delivery (i.e. strategy) and Technical Advisory Groups.



Water Industry Forum (WIF)

<http://www.waterindustryforum.com>

WIF is a stakeholder forum and information hub for the UK water sector that was established in 2021. WIF's role is to:

- Build and manage the network of UK stakeholder organisations.
- Provide a neutral platform for determining the action required to meet challenges.
- Encourage action through workshops and collaborative projects.
- Create opportunities for the development and implementation of innovative solutions.
- Provide a 'one stop shop' for information needs of the sector.

Membership of WIF provides full access to this forum and network and therefore provides WIRC members with connection to a wide range of different actors within the UK water sector. WIF also holds a by invitation annual "Water Professors Dinner" – an opportunity to connect with the academic research base. Finally, WIF holds brainstorming and discussion events under "Chatham House Rules", where relevant stakeholders from different perspectives can come together and discuss sensitive issues facing the water industry in confidence.



Anaerobic Digestion and Bioresources Association (ADBA)

ADBA was established in 2009 to represent the UK anaerobic digestion (AD) and bioresources industry and to support its development. As a trade association, ADBA lobbies government on behalf of the industry. It also holds industry events, such as workshops and educational events, and acts as a forum in which operators, suppliers, farmers, academics and companies

ABDA's renewable energy and biogas tools and extensive resources (there are a lot of case studies of AD on biowaste resources), and connects us to the vast network of stakeholders working in the AD industry. Those of us working in renewable energy, circular economy and zero carbon aspects of the water cycle should find this invaluable.

watershare[®]

<https://www.watershare.eu/>

Watershare is a worldwide network of water research organisations and utilities dedicated to applying global expertise to master local water challenges. Member experts collaborate in developing knowledge and science-based tools. The experts then apply this expertise in tackling a wide variety of water issues in their regions. Members of Watershare can upload their modelling tools behind a web-interface, such that other stakeholders can trial them using their own data. This is a great route to independent validation of a model or approach to analysis, and hence impact etc. There is also a member's area where you can trial modelling tools uploaded by other members.



Water Europe (WE)

<https://watereurope.eu>

Formed as WssTP in 2004 by the European Commission, Water Europe is the voice and promoter of water research and innovation in Europe. WE's missions includes improving coordination and collaboration in the water sectors throughout the EU, enhancing the competitiveness of European water sector, and contributing to solving global water challenges through research and innovation. WE membership connects WIRC members to one of the largest networks of water-oriented stakeholders, research organisations and service providers in the world. Through our membership we have access to WE's policy work, it's thought leadership, EU funding programmes, networking activities and more. Water Europe has been very successful in influencing EU research programmes under Horizon 2020, and this will continue into the new Water Europe programmes, which thankfully the UK will be a fully functional partner post Brexit. Jan Hofman the working groups on on Urban Water Pollution and Water Security for Water Europe, and Jan and Tom Arnot are members of several the special interest groups.

Sensors for Water Interest Group (SWIG)

<https://www.swig.org.uk>

Established in 1993, SWIG is an organisation that promotes the dissemination of information on sensor development and fosters collaboration through workshops and related activities. SWIG's stated aims are:

- To provide a forum for manufacturers, end users and researchers in the sensor community.
- To provide workshops that concentrate on practical applications and current challenges for measurement and control in the water, wastewater, and natural waters.
- To encourage collaboration between all parties interested in research, development and use of sensors for the control and measurement of water quality and quantity.

Membership of SWIG provides considerable benefits of working with leading experts in the field of water-oriented sensor research. SWIG provides networking opportunities, research dissemination opportunities, and opportunities to develop new collaborative partnerships. There is currently an open competition for Early Career Research colleagues who are working on sensing devices (soft or hard) in water systems – way not apply and see if you can win recognition for your work and a prize bonus?



NORMAN Network

The NORMAN Network was established in 2005 with the financial support of the European Commission. It is a network of laboratories, research centres and related organisations for the monitoring and biomonitoring of emerging environmental substances. The mission of the network is to:

- Enhance the exchange of information and collection of data on emerging environmental substances.
- Encourage the validation and harmonisation of common measurement methods and monitoring tools so that demands of risk assessors can be better met.
- Ensure that knowledge of emerging pollutants is maintained and developed by stimulating coordinated, interdisciplinary projects on problem-oriented research and knowledge transfer to address identified needs.

the field of emerging environmental pollutants. The NORMAN network also collects data for its open access databases with large datasets on concentrations, fate and (eco)toxicological data for organic micropollutants in water. Recently a database on Covid-19 in wastewater was added with a contribution from Bath.

[COP26: Call for volunteers](#)

The [2021 United Nations Climate Change Conference](#) (COP26) will be held from 1st to 12th November at the SEC Centre in Glasgow, and the organisers are looking for volunteers to facilitate the event.

As a volunteer, you will provide key information on the conference and conference venues, advice on how to move around the city and promote the best of what Glasgow has to offer. Volunteers will provide Glasgow's world-famous warm welcome to ensure that delegates and visitors have the best possible experience, playing a crucial role in the success of this important event.

You will interact with delegates in and around the city centre, along main walking routes to the SEC centre, at key transport and accommodation hubs, and also at key locations in Edinburgh. Volunteers will undertake shifts during the period 28th October to 14th November and must be available during this period. You should expect to undertake around six shifts during this time and will be invited to attend training ahead of these dates.

If you are interested in volunteering, please contact Stuart Bennett (sb2454@bath.ac.uk) for more information.

[GW4 WSA Student Committee](#)

The GW4 WSA consortium has established a doctoral research student committee, which will organise and host early career events under the WSA banner. The committee is comprised of two doctoral students from each of the four GW4 universities, and **we are looking for one more volunteer from Bath to join**. You will be working with colleagues from across the GW4 and from the

you are interested in joining, please email Stuart Bennett: sb2454@bath.ac.uk.

[OFwat Innovation Fund website launch](#)

The [new website](#) for the Ofwat Innovation Fund has been launched. The website contains all the relevant information regarding the Innovation Fund, including its scope and aims, details on how to enter bids for funding, a list of delivery partners, and updates and news related to the fund. Currently, a £2 million Innovation in Water Challenge (IWC) competition is open, and the deadline for entries is at 12 noon (GMT) on 26th February 2021. The £40 million main competition opens in Spring 2021 and more details will be released later this year. If you are interested in the fund, please visit <https://waterinnovation.challenges.org>. If you would like to discuss the fund with colleagues at WIRC, please email wirc@bath.ac.uk.

Research



[Bathymetry and its Applications - book edited by Philippe Blondel](#)

More than 20k downloads! Philippe Blondel had edited a book on *Bathymetry and its Applications*, available as open access on the publishers' website. Over the Christmas period, this book passed the 20,000-download mark:

<https://www.intechopen.com/books/bathymetry-and-its-applications>. Mapping oceans and water bodies, how deep they are and what they are made of, is explained in great detail in this book, with chapters by experts of the different mapping techniques, from traditional sonars to lasers and other tools. All available as Open Access e-chapters.

[Blog](#)

based models to drought impacts on rural communities' - online event 4th February 2021 13:00-14:00.

The talk will be given by [Marthe Wens](#) of the [Institute for Environmental Studies at the Free University](#) (Vrije Universiteit) of Amsterdam. We look forward to a broad interdisciplinary attendance to this webinar, as the themes discussed will include hydrology, climate, human behaviors, international development, economics, etc. [Register here.](#)

Recent publications

- [Sustainable Water Engineering](#). 1 edn, Elsevier. Charlesworth, S, Booth, C & Adeyeye, K
- '[Low-frequency ocean acoustics - measurements from the Lofoten-Vesterålen Ocean Observatory, Norway](#)', *Proceedings of Meetings on Acoustics*, vol. 40, Garibbo, S, Blondel, P, Heald, G, Heyburn, R, Hunter, AJ & Williams, D
- '[Azulenesulfonium and azulenebis\(sulfonium\) salts: Formation by interrupted Pummerer reaction and subsequent derivatisation by nucleophiles](#)', *Tetrahedron*, vol. 76, no. 49, López-Alled, CM, Martin, FJO, Chen, KY, Kociok-Köhn, G, James, TD, Wenk, J & Lewis, SE

In the media

[Aqua~360: Water for All - Emerging Issues and Innovations conference](#) - 31st August - 2nd September 2021, University of Exeter, Keynote speaker **Prof Barbara Kasprzyk - Hordern** from Bath

Upcoming conferences

31 March - 02 April 2021 Riga, Latvia: [12th Eastern European Young Water Professionals Conference](#)

07 April 2021 - 09 April 2021 France, Bordeaux: [11th IWA Efficient Urban Water Management Conference](#)

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You can find all IWA events on their [website](#).

Let us know if you are aware of any new colleagues or students working within water research at the University of Bath, so that we can add them to our mailing lists!



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