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Information and news from WIRC @ Bath.

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Upcoming events

[WIRC Water Colloquium Series](#)

Last month we had pleasure to listen the presentation of **[Prof Annemarie van Wezel of the University of Amsterdam](#)**. Science to help reach a toxic-free environment'. Now the recordings of the talk can be found on our

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In April the [WIRC](#) water colloquia series continues with a webinar showcasing the research [WISE CDT](#) students **James Rand**. James will talk about 'How weather conditions bias water quality data from lake monitoring programmes – a case study' and **Sally Pearl**. Sally will ask 'Manganese in Blagdon drinking water reservoir: Where is it coming from?'

Full details, including registration information, can be found [here](#). As well as on Twitter, Linked In and Blog.

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

WIRC@Bath
Webinar.

Thurs
22th April, 13:15
– 14:15.

All welcome!

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Presentations from some of our Early Career Colleagues:

Manganese in Blagdon drinking
water reservoir: Where is it
coming from?

Sally Pearl
WISE CDT

How weather conditions bias
water quality data from lake
monitoring programs – a case
study.

James Rand
WISE CDT

News

Horizon Europe

On Tuesday 23 March 2021, Water Europe organised a workshop about the new [Horizon Europe](#) programme. The first calls for the 2021-2022 working programme are expected in April. For water research there is a wide range of opportunities in different areas of the HEU programme.

[Horizon Europe](#) is organised in a similar way as the previous Horizon 2020 programme: Pillar I comprising 'Excellent science', including the ERC grants and Marie Skłodowska-Curie Actions, Pillar II



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500 people from the water sector, chemical industry, academia, and policy development.

In the past years the presence of these compounds in water sources has been under investigation. The character of these compounds makes removal during water treatment very difficult and costly. Current research is working towards better understanding and predicting P, M and T characteristics of these compounds. The workshop was focusing on the using the research results and translate them into new policies for protection of water quality. This includes adding new criteria to registration of chemical in REACH to flag hazards with chemicals in an early stage. It also aims at reducing emissions and finding alternative compounds that are less harmful. The workshop concluded that more research is needed to improve analytical capabilities, monitoring the PMT compounds in the environment and improve the understanding the PMT characteristics. Policy development based on a precautionary principle is underway.

More information: Jan Hofman

[Invitation for a coffee and a catch up](#)

WIRC would like to organise regular meetings for small talk, so we have booked a few afternoon catch up dates after Easter: **14th April and 28th April at 16:15-16:45**. Come alone to have a chat with us. Contact Sonia (ses64@bath.ac.uk) for meeting details.



[Welcome to Cohort 4 of the WISE CDT!](#)

This week, and the week after Easter, we are delighted to be hosting a Transferable Skills and Enterprise course for Cohort 4 of the [WISE CDT](#) – PhD candidates in the final year of their programmes. We are covering material on closing out the PhD journey, including preparation for the *viva voce*

workshops on “Writing your PhD less painfully”, involving some hints and tips for developing a writing strategy, and skills coaching for writing quickly, efficiently, and clearly. We have a half-day session on new approaches for problem solving skills and learning from the hard knocks that inevitably come along. Finally, there are careers related webinars on Early Career Funding Opportunities from UKRI, implications of Brexit on employment for UK and EU nationals, and a general careers strategy advice session.



Research

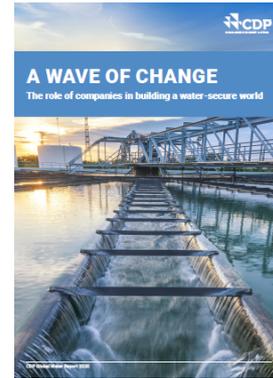
[Major global water related reports released in March:](#)

The **2021 World Water Development Report** on “**Valuing Water**” was published on World Water Day, March 22nd 2021. The report assesses the current status of, and challenges to, the valuation of water across different sectors and perspectives, and identifies ways in which valuation can be promoted as a tool to help achieve sustainability. The report highlights that Traditional economic accounting tends to limit water values to the way that most other products are valued, but water is not like other raw materials: its price, its cost of delivery, and its value are not synonymous. While the first two are potentially quantifiable from a basic monetary point of view, the notion of ‘value’ covers a much wider range of intangible benefits. You can download the report, and a wide range of comprehensive and supporting data sets, from the



CDP released their **“2020 Global Water Report”** on 3rd March 2021. The report assesses the value of water to business, and shows that the cost of inaction on water risks is up to five times the cost of action. In 2020, companies reported maximum financial impacts of water risks at US\$301 billion – five times higher than the cost of addressing them (US\$55 billion). Beyond risk management, there are also business opportunities when investing in water security – estimated at US\$711 billion. With huge business opportunities to seize, companies need to rethink their strategies and transform their business models to build a water-secure world.

There are some very interesting facts and figures in the report, which you can download from the CDP website here: <https://www.cdp.net/en/research/global-reports/global-water-report-2020>



The World Biogas Association released its new report **“Biogas: Pathways to 2030”** on Monday 29th March 2021. The report maps out how the global biogas industry can enable countries to deliver a 10% reduction in global greenhouse gas emissions by 2030. The pathways put humanity back on track to deliver by 2030 on the ambitions of both the Paris Agreement and UN Sustainable Development Goals. Clearly the biogas opportunity is an important one for processing and valorising waste biosolids, and has a critically important role in the ambitions of the UK.

The report can be downloaded from the World Biogas Association here:

<https://www.worldbiogasassociation.org/pathwaysto2030/>



Recent publications

- [‘Optimal storage sizing for indoor arena rainwater harvesting: Hydraulic simulation and economic assessment’](#), *Journal of Environmental Management*, Kim, A, Teh, EX, Humphrey, D & Hofman, J

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Z, Huang, X, Liu, Q, Zang, J & Wang, G

- ['Determining stability of organic solvent nanofiltration membranes by cross-flow aging'](#), *Separation and Purification Technology*, Low, ZX & Shen, J

Upcoming conferences



[IWRA Online Conference on 'One Water, One Health: Water, Food & Public Health in a Changing World'](#)

The International Water Resources Association is pleased to announce its **upcoming online conference** on “*One Water, One Health: Water, Food and Public Health in a Changing World*” to take place from Monday, June 7th, to Wednesday, June 9th, 2021. You are cordially invited to **participate!**

To find out more go [here](#)

[IWA Digital World Water Congress, 24th May – 4th June 2021 – online](#)

The International Water Association (IWA) will be holding a major virtual event – the Digital World Water Congress – from the 24th May to the 4th June this year. The Congress will include a range of presentations, networking opportunities, poster sessions and much more.

If you would like to register your interest in attending, please [click here](#). For more updates in the coming weeks, please visit the [event page](#).

[GWF2021 Annual Open Science Meeting - Call for Abstracts May 17-19](#)

The 2021 Global Water Futures (GWF) Annual



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affiliates, partners, collaborators, and stakeholders) in a virtual setting to share our latest scientific achievements and success stories, provide updates on end user solutions, and support the actions needed to secure Canada's water future. **Abstracts is now open-submission deadline: 16 April** [Read more](#)

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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