

Water Innovation  
& Research  
Centre



UNIVERSITY OF  
**BATH**

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## Upcoming events

12 December 2019: [WIRC student seminar by Haoyu Ding, David Birt and Bert Swart](#)

25 February 2020: Joint WIRC/ChemEng seminar: [Professor Maria Kennedy](#) from [IHE Delft Institute for Water Education](#)

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

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## News



## New WIRC brochure

We are pleased to announce that our new WIRC brochure is now available to view. We would like to thank everyone for their contributions! Please feel free to share the brochure among your contacts.

[View the brochure here](#)



**GW4 FRESH**  
A NERC Centre for Doctoral Training

**Deadline for application: 16 December 2019**  
**Start date: October 2020**

|   |   |
|---|---|
| <p><b>Using in situ sensors to monitor ecosystem health in freshwater catchments</b><br/>Lead Supervisor: <a href="#">Liz Bagshaw</a> Institution: Cardiff</p> <p><b>Bacterial fish pathogens: ignored threats for aquaculture and the environment</b><br/>Lead Supervisor: <a href="#">Cedric Berger</a> Institution: Cardiff</p> <p><b>Can beaver-modified ecosystems mitigate water quality deterioration caused by both point and diffuse source pollution?</b><br/>Lead Supervisor: <a href="#">Richard Brazier</a> Institution: Exeter</p> <p><b>Assessing the impact of neotand restoration on freshwater ecosystems</b><br/>Lead Supervisor: <a href="#">Casey Bryce</a> Institution: Bristol</p> <p><b>Cryptosporidium movement in water: impact of eutrophication and climate change on the zoonotic disease agent</b><br/>Lead supervisor: <a href="#">Jo Cable</a> Institution: Cardiff</p> <p><b>Indicators of regime shifts in freshwater ecosystems</b><br/>Lead Supervisor: <a href="#">Christopher Clements</a> Institution: Bristol</p> <p><b>Ecological drought risks for stream ecosystems</b><br/>Lead Supervisor: <a href="#">Isabelle Duranton</a> Institution: Cardiff</p> <p><b>Cascading effects of micro- and nano-plastics on lipid quality and transfer through freshwater planktonic ecosystems</b><br/>Lead Supervisor: <a href="#">Inna Guschina</a> Institution: Cardiff</p> | <p><b>Chemical and ecological effects of combined sewer overflows on rivers</b><br/>Lead Supervisor: <a href="#">Jan Hofman</a> Institution: Bath</p> <p><b>Speciation of emerging contaminants in wetland systems</b><br/>Lead Supervisor: <a href="#">Barbara Kasprzyk-Hordern</a> Institution: Bath</p> <p><b>Assessing the microbial contamination of freshwater systems by wastewater treatment plants using phage microbial source tracking</b><br/>Lead Supervisor: <a href="#">Ana Llanham</a> Institution: Bath</p> <p><b>Quantifying the role of microbial community dynamics in triggering the production of nuisance chemicals in freshwater ecosystems</b><br/>Lead Supervisor: <a href="#">Chris Lowe</a> Institution: Exeter</p> <p><b>Long-term environmental influences on the ecology and conservation of river birds</b><br/>Lead Supervisor: <a href="#">Steve Ormerod</a> Institution: Cardiff</p> <p><b>Bridging ecology and technology: Using citizen science and artificial intelligence to track fish health</b><br/>Lead Supervisor: <a href="#">Sarah Perkins</a> Institution: Cardiff</p> <p><b>Understanding the ecological role of organic matter (OM) in urban freshwaters</b><br/>Lead Supervisor: <a href="#">Dan Read</a> Institution: CEH/Bristol</p> <p><b>One man's meat is another man's poison: exploring the effect of mass drug administration against schistosomes on the aquatic food web</b><br/>Lead Supervisor: <a href="#">Joanne Lello</a> Institution: Cardiff</p> |
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## FRESH CDT 2020 studentships: Application deadline 16 December

FRESH CDT are currently advertising their PhD projects in freshwater bioscience and sustainability for an October 2020 start. Applications to the CDT should be done on their [online form](#), which will include questions about your academic qualifications, research and other relevant experience, and your interest in FRESH CDT and your chosen project(s). More information on how to apply can be found on the [FRESH CDT website](#).

## WATEF Conference 2020: Moving towards water resilient communities - call for papers

### Deadline 1 December 2019

The next WATEF network conference will be held 2-4 September 2020, at

conference theme and topics on water in the built environment.

The conference will feature a special session: Responding to resilience rhetoric: where are we now?

For more info please visit [www.watefnetwork.co.uk/conference2020](http://www.watefnetwork.co.uk/conference2020)

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## Research

### [WISE CDT internship with DEFRA](#)

Congratulations to James Rand ([WISE CDT](#) Cohort 5), who has been accepted on a 3-month internship with DEFRA (Department for Environment, Food and Rural Affairs) working in the policy area for DEFRA's Chief Scientific Advisor. The internship will start within a few months - [read more on our blog](#). Make sure to follow our blog and keep an eye on our newsletter to follow James' internship.

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## Blog



### [2nd PRIMaRE Summer School](#)

The Partnership for Research In Marine Renewable Energy (PRIMaRE) hosted its 2nd Summer School at the Universities of Bristol and Bath in September 2019. The theme this year was "Designing Marine Renewable Energy Devices". The Summer School attracted a participation of around 40, including PhD students, early career researchers and industrialists.





FRESH CDT Cohort 2 student Tomo Homan wrote a blog post about the second instalment of the FRESH CDT training at the University of Bristol, organised by Prof. Martin Genner and Prof. Penny Johnes. [Read more about what the cohort got up to on Tomo's blog!](#)

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### [Groundwater vulnerability in Africa - pilot study](#)

PhD student Zaharatu Babika, from the [WEIR research unit](#) in the Department of Architecture and Civil Engineering, went for a pilot study to northern Nigeria, Africa, from 25th July to 20th August 2019. This pilot study is part of her project to investigate groundwater vulnerability and risk of contamination in Africa by identifying and studying areas that are vulnerable to contamination.

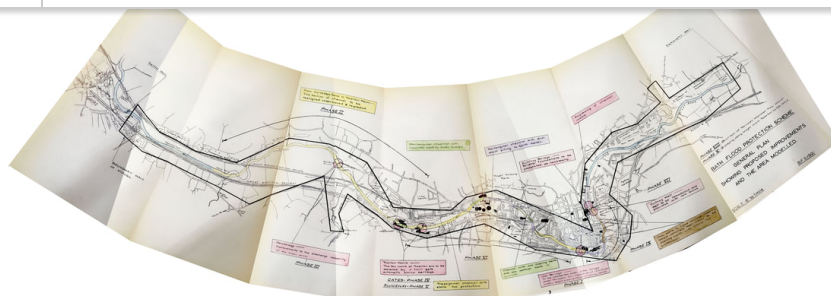
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### [IWA-MTC 2019 – Membrane technology challenges and opportunities in water and wastewater treatment](#)

[Garyfalia Zoumpoulis](#), third-year PhD student at the CSCT, attended and presented her research at the [9th International Water Association Membrane Technology Conference & Exhibition for Water and Wastewater Treatment and Reuse](#) (IWA-MTC 2019) in the south of France in summer 2019. Her PhD focuses on ozonation technologies for water and wastewater treatment, specifically using membranes to improve the efficiency of ozonation of wastewater. [Read more on the CSCT blog.](#)

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## The Bath Flood Defence Scheme

Ioanna Stamataki, Research Associate at the [Department of Architecture & Civil Engineering](#), writes in [Hydric-Bath blog](#) about the history of flood defence in Bath and about the present-day Bath flood protection scheme.

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## In the media

- Dr Philippe Blondel on BBC Somerset on dredging Watchet marina, 28 November 2019: <https://www.bbc.co.uk/sounds/play/p07t4vxz> (segment starts at 1:47:10)

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## Video

- If you missed our latest seminar by Professor Luuk Rietveld from TU Delft, you can watch it on Vimeo here: [Advanced Treatment technologies for water reclamation](#)

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## Recent publications

- [Spatio-temporal assessment of illicit drug use at large scale: evidence from 7 years of international wastewater monitoring](#). Kasprzyk-Hordern B, Plosz B G, Castrignano E et al, 2019.
- [Global Sensitivity Analysis of Metabolic Models for Phosphorus Accumulating Organisms in Enhanced Biological Phosphorus Removal](#). Nguyen Quang M, Rogers T, Hofman J & Lanham A, 2019.
- [Direct Under-Sampling Compressive Sensing Method for Underwater Echo Signals and Physical Implementation](#). Sun T, Li J & Blondel P, 2019.

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## Upcoming conferences

12 - 14 January 2020: Harbin, China, [Water Management in Cold Climate 2020](#)

9 - 13 February 2020: Quy Nhon, Vietnam, [15th IWA International Watershed & River Basin Management Conference](#)

15 - 17 April 2020: Cardiff University, UK, [21st IWA UK Young Water Professionals Conference](#)

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

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