

Water Innovation  
& Research  
Centre



UNIVERSITY OF  
**BATH**

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## Upcoming events

24 October 2019: [What is GW4 Water Security Alliance \(WSA\)? Introductory lunch](#)

19 November 2019: WIRC Colloquium by Luuk Reithveld from TU Delft

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

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## News

### [WIRC Annual report 2018-19](#)

We have compiled a report detailing our activities, current projects and more for the academic year 2018-19.



[Download the report here](#)



### [Bioplastics from wastewater - presentation prize at UK Young Water Professionals Conference](#)

Viviane Runa is researching the potential of UK wastewater treatment plants to produce plastic from wastewater at CSCT, supervised by Dr Ana Lanham. In June 2019 she travelled to Edinburgh to attend the 20th UK Young Water Professionals Conference, where she earned a presentation prize for best content and delivery.

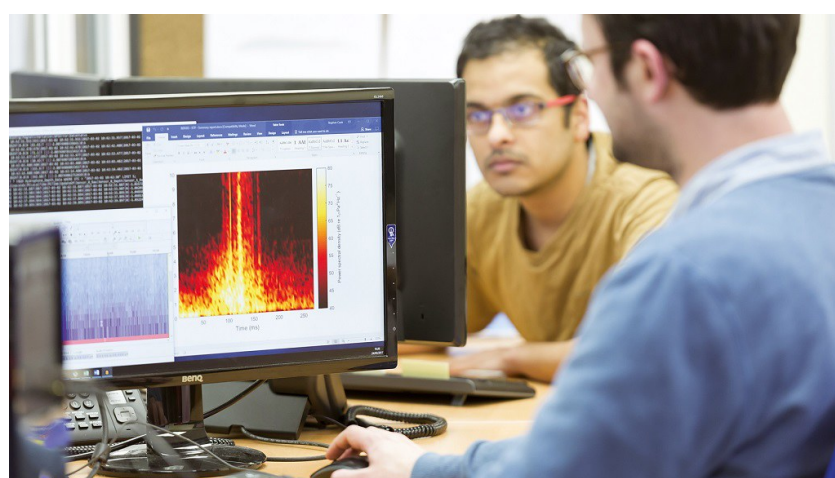
### [New book: The Challenges of Water Management and Governance in Cities](#)

Our director Jan Hofman has contributed to a new book titled "The Challenges of Water Management and Governance in Cities", published by MDPI. The book is a printed edition of the Special Issue [The Challenges of Water Management and Governance in Cities](#) that was published in [Water](#).

## The Challenges of Water Management and Governance in Cities

Edited by  
Kees van Leeuwen, Jan Hofman, Peter Driessen and Jos Frijns  
Printed Edition of the Special Issue Published in *Water*

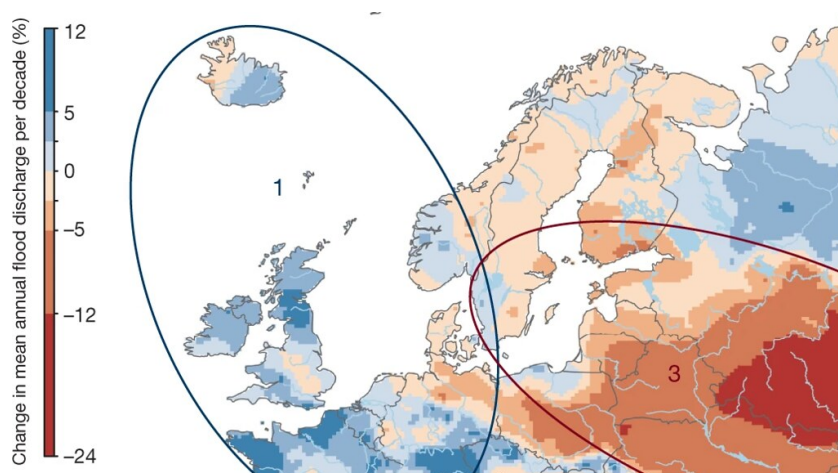
[www.mdpi.com/journal/water](http://www.mdpi.com/journal/water)



### University of Bath awarded fourth KTP with Seiche

[Dr Philippe Blondel](#), Department of Physics, and [Dr Alan Hunter](#), Department of Mechanical Engineering, will work together to provide the academic Knowledge Base of this latest partnership aiming to create a powerful new platform for unmanned, remote acoustic surveying.

## Research



### Changing climate linked to major changes in

Dr Thomas Kjeidsen from the Department of Architecture and Civil Engineering and [WEIR](#) has contributed to Europe's largest flooding survey to date. The study investigated the impact of a changing climate on flooding and found that parts of northern Britain have suffered Europe's biggest increases in flooding since the 1960s.

## On the blog



### [Site visit helps MSc students get practical experience in water industry.](#)

In July 2019, a group of Sustainable Chemical Engineering MSc students and academic staff visited Wessex Water's Sutton Bingham Water Treatment Works in Yeovil.



### [Short placement experience in environmental biotechnology.](#)

Vicky Regan is a second-year MEng Chemical Engineering undergraduate. She had the opportunity to shadow some of Dr Ana Lanham's PhD students who are currently undertaking research in areas related to wastewater treatment and resource recovery.





## MiDAS Global Database Workshop

On the 21st and 22nd of June, Viviane Runa and her supervisor Dr Ana Lanham and me participated in the [MiDAS](#) (Microbial Database for Activated Sludge) Global Database Workshop in Denmark. Viviane and Ana have been collaborating with the Center for Microbial Communities at Aalborg University and the team of researchers led by Prof Per H Nielsen and contributed samples from different wastewater treatment plants around Bath and East Anglia.

## In the media

- 'Water innovations taking off at Bristol airfield development'. [Water Industry Journal](#), 5 September 2019 and [Institute of Water Magazine](#), Autumn 2019.

## Recent publications

- [Renewable energy powered membrane technology: Experimental investigation of system performance with variable module size and fluctuating energy](#). Shen J, Jeihanipour A, Richards BS & Schäfer AI, 2019.
- [Managing taste and odour metabolite production in drinking water reservoirs: The importance of ammonium as a key nutrient trigger](#). Perkins RG, Slavin EI, Andrade TMC, Blenkinsopp C, Pearson P, Froggatt T, Godwin G, Parslow J, Hurley S, Luckwell R & Wain DJ, 2019.
- [Natural Photosensitizers in Constructed Unit Process Wetlands: Photochemical Characterization and Inactivation of Pathogen Indicator Organisms](#). Wenk J, Nguyen MT & Nelson KL, 2019.

## Upcoming conferences

4 - 5 November 2019: Amsterdam, Netherlands, [Amsterdam International Water Week Conference](#)

13 - 15 November 2019: Amherst, Massachusetts, USA, [IWA Particle Separation Specialist Conference 2019: Formation, Utilization and Removal of Particles for Improved Water Quality](#)

25 - 28 November 2019: Shanghai, China, [2019 Innovation Conference on Sustainable Wastewater Treatment and Resource Recovery](#)

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

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