

# Red ALERT CDT and CWBE Conference

10 East Building, University of Bath

Tuesday 5<sup>th</sup> May – Wednesday 6<sup>th</sup> May 2026

## Introduction

We are looking forward to welcoming you to the Red-ALERT CDT and CWBE Conference. These two back-to-back events will take place in 10 East (the School of Management Building) on the University of Bath campus (C3/C2 on the [campus map](#)).

**This document provides information about both events – it doesn't matter which day you are attending.**

**Please note: this is an in-person only event.**

**There will also be filming and photography taking place throughout both days, which will be used by Red-ALERT CDT and CWBE in promotional materials, and on their respective websites and social media accounts. Please let us know if you would rather not appear in any images.**

## Getting to the University

### Driving

If you plan to drive to the University, you can park in the East Car Park (nearest car park to 10 East) or the South Car Park and use the free parking permit attached. If you have a Blue Badge, you can use disabled parking spaces free of charge. There are Blue Badge spaces in all campus car parks.

Visit the [parking section on the website](#) for more detailed information on parking at the campus.

If you are planning to drive and use a permit, please add your registration number and clearly display the parking permit in your car. Please do not park in Reserved spaces.

### By Bus

First West of England runs three services between Bath and the University campus:

- The U1 goes between the University, the City Centre and Oldfield Park
- The U2 takes you from Oldfield Park to the University and back again
- Service 20 runs between the University of Bath and Twerton, Wedgwood Road

Service 22 runs a route between Twerton, Combe Down and the University Campus.

Visit the [bus section on the website](#) to find out about the bus services you can take to and from the University's Claverton Down campus.

## Cycling and Walking

You can walk or cycle from the centre of Bath using North Road, Bathwick Hill or Widcombe Hill. These routes involve a steep uphill climb. It will take 30-40 minutes to walk to campus.

Visit the [cycling and walking section on the website](#) for more detail about the routes.

## On arrival

When you enter 10 East, you will need to report to the reception desk that you are here for the conference, and they will buzz you through the gates (or the gates may be left open). You will then see level 0 below, where the café is based and the conference event area will be. Go down the stairs (or use the lift) and head over to the roped off area where you can register and pick up a name badge.

## Food and drink

All food and drink will be provided. Teas, coffees and pastries are offered on arrival both days, with lunches and further refreshment breaks throughout the event. We have noted your dietary requirements from your registration form but please inform us on the day if you have any concerns about your specific requirements.

## Dinner

The conference dinner will take place on campus, at the Lime Tree (a short walk from 10 East).

There are no pre-orders required for the dinner, you can just turn up and choose from a selection of foods on offer.

Entertainment will be provided after the dinner, by the Chemistry band, The Beakers. They are expected to play until about 9.30pm.

## Stephanie Millward MBE talk

We are delighted to be welcoming Stephanie along to give talk at the end of the first day. Stephanie is a Paralympic gold medallist, speaker, and author who inspires audiences through her powerful and personal story of resilience. After training for the Olympics, Stephanie's life changed dramatically when she lost her sight and became paralysed, leading to a diagnosis of multiple sclerosis. Determined not to give up, she rebuilt her life and went on to achieve incredible success in Paralympic swimming, winning multiple medals, including two golds at the Rio 2016 Games.

Stephanie will be bringing a few copies of her book, 'Paying the Price to Gold', which you will be able to purchase after her talk for the discounted price of £10, including a personal signature and motivational cards. Please note, purchases can only be made at the conference using cash, but we will provide information on where you can buy the book online.

## Posters

If you are bringing a poster, your name should be listed at the end of this pack. Poster boards will be set up for you to put your poster up when you arrive. Velcro dots will be provided. Please ensure you put your poster in the correct position according to the number assigned to you (see the list at the end of this document).

## Access information

10 East has level access with double-width automatic doors. There are lifts and accessible toilets inside the building.

The main areas we will be using are on Level 0 (downstairs from street level). Lecture theatre 0.18 has doors at the front of the room (there is no access at the back of the room). Lecture theatre 0.17 has doors leading to the back of the theatre (top) and fire escape routes on the lower level. There are designated spaces for wheelchair users at the front of the room (lower level). Please get in touch with us beforehand if you need wheelchair access. There are hearing loops in the rooms.

The nearest car park to the building is East Car Park. There are Blue Badge spaces in all campus car parks. View an [accessibility map of parking and wheelchair access points](#) on campus. Visit the [Campus Car Parks page](#) on AccessAble for more information.

If you have a question about access, please contact us via [cwbe@bath.ac.uk](mailto:cwbe@bath.ac.uk) or [redalertcdt@bath.ac.uk](mailto:redalertcdt@bath.ac.uk).

## Event schedule

Tuesday 5 <sup>th</sup> May 2026		
Time	Activity	Location
9.30- 10:00	<b>Coffee/pastries &amp; Registration</b>	10 East Lvl 0
10:00 - 10:15	Red-ALERT Conference opening and welcome	10 East 0.18
10:20 - 10:40	Keynote speaker – <b>Dr Emma Pemberton, Environment Agency</b> <b>Talk title:</b> <i>Persistence: a problem and a skill</i>	10 East 0.18
10:45 - 11:05	Academic speaker – <b>Dr Eduarda Santos, University of Exeter</b> <b>Talk title:</b> <i>Living in a stressful world: effects of pollution on freshwater organisms</i>	10 East 0.18
11:10 – 11:25	<b>Refreshments</b>	10 East Lvl 0
11:30 –12:45	Cohort 1 Living Lab talks x 4 with Q&A	10 East 0.18
12:45 – 13:45	<b>Lunch</b>	10 East Lvl 0
13:45 – 14:05	Keynote speaker – <b>Professor Grant Stentiford, Cefas</b> <b>Talk title:</b> <i>One Health in a changing world</i>	10 East 0.18
14:15 – 15:25	Cohort 2 Student Talks (2 minute project introductions) with Q&A	10 East 0.18
15:30 – 16:45	<b>Refreshments and Poster session</b>	10 East Lvl 0
16:45 – 17:45	Motivational speaker – <b>Stephanie Millward MBE</b> <b>Talk title:</b> <i>Dreams Do Come True</i>	10 East 0.17
18.15 – 19:30	Conference dinner	The Lime Tree
19:30 – 21:00	Conference social - The Beakers (Chemistry band)	The Lime Tree

## Wednesday 6<sup>th</sup> May 2026

Time	Activity	Location
9:00 – 9.30	<b>Coffee/pastries &amp; Registration</b>	10 East Level 0 foyer
9.30 – 9.35	Welcome and housekeeping	10 East 0.17
9.35 – 10.05	<b>Keynote speaker: Dr Josh Bunce</b> , Deputy Director and Head of Research at the Environment Agency  <b>Talk title:</b> <i>Simple Rules for the Application of Wastewater Surveillance (and other such things)</i>	10 East 0.17
10:10 – 10:30	<b>Invited speaker: Dr Thomas ter Laak</b> , Senior Researcher at KWR Water Research Institute, The Netherlands.  <b>Talk title:</b> <i>WBE, lessons from deviating (drug) residues in wastewater</i>	10 East 0.17
10:35 – 11:05	<b>ECR and PhD flash presentations – see section at end for full list</b>	10 East 0.17
11:05 – 11:20	<b>Refreshments and poster session</b>	10 East Level 0 foyer
11:20 – 11:50	<b>Keynote speaker: Dr Sara Castiglioni</b> , Mario Negri Institute for Pharmacological Research, Milan, Italy  <b>Talk title:</b> <i>Discovering a treasure: what wastewater can tell us about public health?</i>	10 East 0.17
11.55 – 12.30	<b>ECR and PhD flash presentations – see section at end for full list</b>	10 East 0.17
12:30 – 13:45	<b>Lunch</b>	10 East Level 0 foyer
12.45 – 13.45	<i>Students only: Mental health workshop, with lunch</i>	10 East 0.19
13:45 – 14:00	<b>Conference group photo - all</b>	10 East foyer
14:00 – 14:30	<b>Keynote speaker: Dr Andrew Singer</b> , Principal Scientist, UK CEH  <b>Talk title:</b> <i>Environmental AMR &amp; Surveillance Opportunities</i>	10 East 0.17
14.35 – 14.55	<b>Invited speaker: Professor Isabelle Durance</b> , Director of the Water Research Institute, Cardiff University  <b>Talk title:</b> <i>Wastewater-informed ecosystem surveillance</i>	10 East 0.17
15.00 - 15.20	<b>Invited speaker: Professor David Graham</b> , Senior Research Fellow, Durham University  <b>Talk title:</b> <i>Water, resistance, and health: Why three decades of environmental research do not answer the questions that matter most</i>	10 East 0.17
15.25 – 16.05	<b>Panel discussion with speakers</b>	10 East 0.17
16.05 – 16.15	<b>Prize giving and closing remarks</b>	10 East 0.17

## Red-ALERT CDT Speakers – Tuesday 5<sup>th</sup> May

### Cohort 1 Speakers

#### **University of Bath**

Joseph Beaney  
Javeria Munawar  
Evan Johns (Aligned)  
Maddy McCarthy (Aligned)

#### **University of Exeter**

Erica Boston  
Eleanor Kirk

#### **University of Cardiff**

Maya Lhoste  
Yanting Zhang  
Sian Davies

#### **University of Bangor**

Adam Winrow  
Kate Herridge  
Yashi Jain

### Cohort 2 Speakers

#### **University of Bath**

Geraint Pugh  
Prapti Chakraborty  
Rosie Elliot  
Sogol Forghani

#### **University of Exeter**

James Milton  
Ioana Alexa  
Charlotte Moreira  
Hannah Boote  
Nathan Strathdee

#### **University of Cardiff**

Chloe Hawthorn  
Elizabeth Witcombe

#### **University of Bangor**

Sharandeep Singh  
Patrizio Feliziani  
Christopher Sanders

## ECR and PhD flash presentations – Wednesday 6<sup>th</sup> May

1. **Neil Byrnes**, Exploring the Impact of Hospitals in Wastewater-Based Epidemiology for Public and Environmental Health Risk Assessment
2. **Samia Habib**, Local clones for local people: *Klebsiella quasipneumoniae* ST526, harbouring the resistance gene blaCTX-55, is frequently recovered from wastewater in and around Bath
3. **Isobel Brooker**, Investigating *Clostridioides difficile* Transmission Dynamics Using Wastewater-Based Epidemiology
4. **Nicola Ceolotto**, One Sample, Endless Insights: Wastewater as Leverage for Early Warning Public Health Surveillance - A case study
5. **Rachel Carrington**, Modelling Sources of Variation in Wastewater Data
6. **Mohsin Surani**, Chemical-Level Patterns Across Regions
7. **Harry Elliss**, Dietary and Physiological Health Assessment in a Major UK city
8. **Monish Sundarajan**, WBE for public health assessment: understanding associations between lifestyle/environmental risk factors and non communicable disease prevalence
9. **Afzal Hussain**, Enhancing Sample throughput and Reducing Analysis Time in Wastewater Based Epidemiology: A Comparative Study of SPE and Direct Injection for Public Health Monitoring
10. **Ben Faill**, Transitioning from targeted analysis to high-resolution mass spectrometry in a comprehensive water-based epidemiology workflow
11. **Mahmoud Altahan**, Field-deployable analyzer for C-reactive protein in wastewater
12. **Muhammad Dangana**, Internet of Things (IoT) System Architecture upon analyzer for C-reactive protein in wastewater

## Red-ALERT CDT Posters:

1. **Adam Winrow, Bangor University**  
Fungi in Flow: Persistence of Human Pathogenic Fungi in Freshwaters
2. **Charlotte Moreira, University of Exeter**  
Understanding the effects of Chemical Mixtures on Freshwater Invertebrates:  
A Holobiome Approach
3. **Chloe Hawthorn, Cardiff University**  
Pollutants in Welsh Otters: A 13-Year Inland-Coastal Comparison
4. **Eleanor Kirk, University of Exeter**

Multidisciplinary Approach to Assessing Effects of Freshwater Contaminants, Using the Model Species *Daphnia pulex*

5. **Elizabeth Witcombe, Cardiff University**  
Linking the changing chemical environment with biological recovery across rivers in Wales
6. **Erica Boston, University of Exeter**  
Navigating troubled waters: developing a multi-disciplinary approach to assess the ecological impact of storm overflows
7. **Evan Johns, University of Bath**  
Real-time PFAS sensors: electrochemical detection using a hybrid aptamer-molecularly imprinted polymer receptor
8. **Geraint Pugh, University of Bath**  
Wastewater based surveillance system for viral detection and characterisation
9. **Ioana Alexa, University of Exeter**  
Investigating the Biological and Chemical Factors Affecting *Vibrio* Dormancy in the River Teign
10. **James Milton, University of Exeter**  
Are Wastewater Chemicals Contributing to Declines in Insectivorous Birds?
11. **Javeria Munawar, University of Bath**  
An e-DNA probe to enable Microbial Source Apportionment from Environmental Samples
12. **Joe Beaney, University of Bath**  
Establishing a new effect-directed analysis platform for understanding exposure risks of hazardous chemicals and their mixtures
13. **Kate Herridge, Bangor University**  
Norovirus Risk Assessment in Recreational Waters
14. **Maddy McCarthy, University of Bath**  
Investigating the ecology of Integrated Constructed Wetlands: in the context of wastewater remediation
15. **Maya Lhoste, Cardiff University**  
Spatio-temporal analysis of the River Ely using eDNA
16. **Patrizio Feliziani, Bangor University**  
SalDiOmics: Environmental DNA (eDNA)-based approaches to investigate salmonid disease dynamics in UK rivers
17. **Prapti Chakraborty, University of Bath**  
Development of a Gold-Aptamer Biosensing Platform for Rapid Norovirus Monitoring in River Water
18. **Rosie Elliott, UK Centre for Ecology and Hydrology & the University of Bath**

## Wastewater Treatment Attenuates Human and Ecological Resistome Risk

19. **Sharandeep Singh, Bangor University**  
Tracking Carbapenemase-Producing Organisms in Wastewater and Wastewater Receiving Aquatic Environments
20. **Sian Davies, Cardiff University**  
Exploring the thermal tolerances of freshwater invertebrates
21. **Sogol Forghani, University of Bath**  
Iridium-Based Fluorescent Complexes for Biological Imaging: Evaluating Their Potential for DNA Interaction and Sensing
22. **Yashi Jain, Bangor University**  
Source-to-River Dynamics of Microplastics in the Conwy River

## CWBE Posters:

23. **Afzal Hussain, University of Bath**  
Optimising Wastewater-Based Epidemiology: Scaling Sample Throughput for Faster Public Health Decision Making
24. **Ben Faill, University of Bath**  
Transitioning from targeted analysis to high-resolution mass spectrometry in a comprehensive water-based epidemiology workflow
25. **Bibian Okokhere-Edeghoghon, University of Bath**  
Antibiotics Resistance Genes (ARGs) surveillance in wastewater using qPCR
26. **Crescenzo Ianniello, University of Bath**  
 $\mu$ STRAW: portable DNA testing for pathogens detection
27. **Dalia Elabbadi, University of Bath**  
Water-Based Early-Warning of public exposure to per/polyfluorinated alkyl substances (PFAS) and associated health outcomes using water-based epidemiology.
28. **Harry Elliss, University of Bath**  
Understanding Community Psychological Health: the WBE Approach
29. **Kheti Mhlongo, University of Bath**  
Bottom up vs top down: proteomics approaches to wastewater-based epidemiology and monitoring public health related biomarkers
30. **Mahmoud Altahan, University of Bath**  
Field Deployable analyser for C-reactive protein in wastewater
31. **Maria Cortada Roca, University of Bath**  
A Candid(a) snapshot: wastewater-based epidemiology for One Health genomic surveillance of Candida

32. **Monish Sundarrajan, University of Bath**  
Direct injection versus Solid Phase Extraction for HRMS-based broad screening of wastewater: A preliminary workflow comparison
33. **Muhammad Dangana, University of Bath**  
Real-Time Water Quality Monitoring Using IoT for Water Sensing Kit: A Testbed
34. **Neil Byrnes, University of Bath**  
Exploring the Impact of Hospitals in Wastewater-Based Epidemiology for Public and Environmental Health Risk Assessment
35. **Nicola Ceolotto, University of Bath**  
One Sample, Endless Insights: Wastewater as Leverage for Early Warning Public Health Surveillance - A case study
36. **Rachel Carrington, University of Bath**  
Modelling Sources of Variation in Wastewater Data
37. **Samia Habib, University of Bath**  
Local clones for local people: *Klebsiella quasipneumoniae* ST526, harbouring the resistance gene bla<sub>CTX-M-55</sub>, is frequently recovered from wastewater in and around Bath
38. **Tolulope Lawrence, University of Bath**  
Characterisation of chemicals of concern in livestock farming systems