



Better Water for All Network Plus 1st Annual Early Career Conference 2026 3–4 September 2026, University of Surrey

Conference Programme

Day 0 – Wed 2nd September

From 3 pm: Participants with campus accommodation checking in to their rooms

6-8 pm: Informal drinks with buffet snacks /registration (Rik Medlik building Foyer)

Day 1 – Thu 3rd September

Rik Medlik building (MS building)

Registration		
8:00-9:00	MS Foyer	Registration and coffee
Opening session		
9:00-9:15	03MS01	- Opening of conference - Prof Bing Guo - Introduction of Surrey Research - Prof Xuan Jin, FEPS
Keynote session		
9:15-11:15	03MS01	- Sir John Kay – Oxford Business School - Sarah Gillman – Scottish Water - Brett Sallach – Environment Agency - Alistair Young – Water Rangers + Lewis Campbell - South East River Trust
Group photo session		
11.15 – 11.45	MS Foyer	Group photo BREAK coffee/tea
Panel 1		
11.45 – 12.00	03MS01	Mike Rose - UKWIR presentation
12:00 – 12:45	03MS01	Panel discussion
Lunch		
12:45- 13:45	MS Foyer	Lunch
Oral Presentation Session 1		
13:45 - 14:30	03MS01	Session 1: Nature-inspired solutions
14:30 – 14:45	MS Foyer	BREAK coffee/tea
Oral Presentation Session 2		
14:45 - 15:45	03MS01	Session 2: Circularity/Resource recovery
15:45- 16:15	MS Foyer	BREAK coffee/tea
Poster session 1		
16:15- 17:30	34MS01	Poster session
Conference Dinner		
18:00	Hillside	Dinner buffet

Day 2 – Friday 4th September
Rik Medlik building (MS building)

8:30-9:00	MS Foyer	Arrival and coffee
Panel 2		
9:00-10:00	03MS01	Career panel session
10:00 – 10:15	MS Foyer	BREAK coffee/tea
Poster session 2		
10:15 – 11:15	34MS01	Poster session
Oral Presentation Session 3		
11:15 – 12.30	03MS01	Session 3: Modelling
Lunch		
12:30- 13:30	MS Foyer	Lunch
Oral Presentation Session 4		
13:30 – 15:00	03MS01	Session 4: Pollutants
15:00 – 15:30	MS Foyer	BREAK coffee/tea
Concluding and awarding		
15:30- 16:00	03MS01	Awarding Best Posters/ Best Oral Presentation; CONFERENCE CLOSE

Oral Presentations

Session group	ID	Title	Full name	Institution / Company
<i>Nature-inspired solutions</i>	OP01	Micropollutant removal in an intensified nature-based treatment wetland receiving raw municipal wastewater	Abdullahi Kabir	Cranfield University
	OP02	Effects of spatial extent and timescale of prescribed moorland burning on headstream water chemistry parameters	Brian Ogeto Nyantika	Sheffield Hallam University
	OP03	Biocoatings for Biological Nitrogen Removal from Wastewater	Ezra Porter	University of Surrey
<i>Circularity/Resource recovery</i>	OP04	Applied smouldering for advancing a safe and circular economy through PFAS destruction and phosphorus recovery from UK sewage sludge	Tarek Rashwan	University of Nottingham
	OP05	Harnessing microalgal extracellular polymeric substances (EPS) for malting wastewater treatment and valorisation	Kamonchanok Wianglor	The University of Nottingham
	OP06	Closing the liquid loop: coupling hydrothermal carbonisation with phototrophic treatment to valorise olive pomace digestate process water	Cesar Ramos Catizane	Cranfield University
	OP07	Nanobubble-Assisted Recovery of Rare Earth Elements from Industrial Wastewater for Circular Water Management	Hamid Rehman	Cranfield University
<i>Modelling</i>	OP08	Life Cycle Assessment and Techno-Economic Analysis of Emerging Wastewater Treatment Technologies	Pengxiao Zhou	University of Oxford
	OP09	Validated Model to Practitioner Tool: Implementing AI-Driven Risk Governance in Biogas Facilities	Mohamed Abourida	University of Surrey
	OP10	A Multi-Source Deep Learning Approach to Small Water Body Detection and Delineation	Sahar Sharifi	University of Surrey
	OP11	Digital Reference Objects for Robust Benchmarking of Anaerobic Digestion Systems Under Data Uncertainty	Ruosi Zhang	University of Surrey
	OP12	Safe Drinking Water Kiosks at Transport Hubs: A Social Business Model to Reduce Plastic Waste	Md Aminul Islam	Northumbria University London

<i>Pollutants</i>	OP13	Reactive Dye Removal using Integrated Adsorption and Electrochemical Oxidation	Nazmunnaahar Nazmunnaahar	The University of Manchester
	OP14	The role of micro-nanobubbles in dissolved air flotation for the removal of micropollutants in drinking water treatment	Sayyad Muhammad Ali Rizvi	Cranfield University
	OP15	Assessment of Membrane Aerated Biofilm Reactor as a full-flow biological treatment of wastewater	Blessing Mobolaji	Cranfield University
	OP16	'Clean' sink, dirty problem: the challenge of disinfecting hospital sink drains	Aimee Fisher	University of Surrey
	OP17	Green approach for microplastic removal from water: Mathematical modelling and optimization	Milad Mousazadehgavan	Liverpool John Moores University
	OP18	Impact of Polyester Microfibre Fouling on UF and NF In Hard Tap Water	Fatemeh Hamidavi	University of Surrey

Poster Presentations

Session group	ID	Title	Full name	Institution / Company
<i>Pollutants</i>	PP01	Can the application of remote sensing improve bathing water quality assessments?	Kiera McMahon	University of Surrey
	PP02	Impact of hydrodynamics on pilot scale Microbial electrolysis cell	Maira Anam	Newcastle University
	PP03	Linking Water Contaminant Exposure to Antimicrobial Resistance and Public Health Outcomes: A Data-Driven Review	Mahi Monjina	East Anglia University
	PP04	Handwashing basin interactions in the healthcare environment: an observational study of water infrastructure at its point of use	James Bendall-Boyd	University of Surrey
	PP05	Population-normaliser choice impacts spatial pharmaceutical signatures in near-source university campus wastewater surveillance	Frederick Bradley-Pickston	Middlesex University
	PP06	Heavy Metal Contamination and Water Quality Risks in the Osun River, Nigeria	Michael Osagie	York St John University
	PP07	Impact of Disturbed Partial Nitrification-Anammox Process on Whole-Process Nitrogen Removal and Greenhouse Gas Emissions.	Zhufang Wang	University of Surrey
	PP08	Tracing the flow: mapping sewage and chemicals impact on river antimicrobial resistance	Stella Christou	University of Surrey
	PP09	Enhanced Methyl Orange Biodegradation by a Pre-Cultured Pseudomonas–Bacillus Consortium Using a PANI/r-GO-g-C ₃ N ₄ Modified Flexible Anode in a Single-Chamber Air-Cathode Microbial Fuel Cell	Afreen Ahtesham	Northumbria University
<i>Modelling</i>	PP10	Assessing Drought-Driven Rice Sowing-Window Shifts and Groundwater Stress in Cagayan Valley, Philippines	Patricia Angelica D. Cabrera	University of the Philippines Los Banos
	PP11	Life Cycle Assessment of Sputtering-Engineered WO ₃ /MnO ₂ Multilayers on Graphene for Sustainable Energy Storage Applications	Nitesh Choudhary	Advanced Technology Institute, University of Surrey

<i>Circularity/social science</i>	PP12	Environmental covariates and modelling approaches for Schistosomiasis intermediate host snails: A scoping review	Wenzhao Zhang	University of Surrey
	PP13	Leakage Detection and Localisation in Water Distribution Networks using Deep Reinforcement Learning	Awais Javed	Birmingham City University
	PP14	Enhancing environmental sustainability and protection based on predictive phytoremediation control of wastewater systems using emotional ML	Hauwa Mohammed Mustafa	Kaduna State University
	PP15	Hyper-mesophilic temperature optimizes anaerobic digestion performance via feedstock-dependent microbial modulation	Bang Du	University of Surrey
	PP16	Investigating potential for phosphorus recovery from Hydrothermal Oxidation solid residue	Tim Auth	Anglian Water/Imperial College London
	PP17	Enhancing the removal of phosphorus from wastewater streams through the sonocrystallisation of struvite	Dominic Falconer	University of Surrey
	PP18	Low-Cost Electrospun Photothermal Membranes for Solar-Driven Water–Electricity Cogeneration	Xiaoqian Pu	Advanced technology institute/ University of Surrey
<i>Nature-inspired solutions</i>	PP19	Why are we all environmental hypocrites? Tracing behavioural spillover in water conservation	Sofie Voss	University of Surrey
	PP20	Fluoride-free MXene-derived membranes for electrocatalytic nitrate to ammonia conversion	Corin T. Scott	University of Bath
	PP21	Engineering Next-Generation Faradaic Electrodes for Sustainable Energy-Efficient Brackish Water Desalination by Capacitive Deionization	Satish Kumar	Indian institute of Technology Guwahati
<i>Pollutants</i>	PP22	Biochar-Amended Constructed Wetlands for Heavy-Metal Removal from Airport Runoff: Evidence and Research Needs	Samiah Qamar	University of West London
	PP23	Reclaiming the Rain: Quantifying the Multifunctional Subsurface and Sediment Benefits of Leaky Dams	Hannah Purkis	Suffolk county Council - Lead Local Flood Authority
	PP24	The fate of phosphate (and chlorine) in drinking water distribution systems	Natalie Lamb	Spring
	PP25	Assessment of illegal dumping waste and Its impact on Urban Drainage in Ambo Town, Ethiopia	Bonsa Tafasa Mamo	AMBO-GUDAR Town Water Supply

<i>Nature-inspired solutions</i>	PP26	Seasonal Variation of Physicochemical and Bacteriological Characteristics of Groundwater Around Selected Cemeteries in Ogbomoso, Nigeria	Aderibigbe Deborah Olubunmi	Ladoke Akintola University of Technology, Ogbomoso, Nigeria
	PP27	Influence of NOM, iron oxide, and mixed fouling on ceramic membrane performance	Zara Rahim	University of Edinburgh
	PP28	Evaluating Adsorption Systems for PFAS Removal in the Presence of NOM and Co-Contaminants Using GAC and Ion Exchange Media	Ananthu Mohan	Cranfield university
	PP29	Metal-Metal Antagonism and Synergy: Copper and Cadmium Co-Exposure Alters Plant Physiology and Bioaccumulation	Naila Shah	Kunming University of Science and technology
	PP30	Jeevarekha: Reframing Urban Water Corridors as Living Ecological Infrastructure through Systems Thinking and Nature-Based Solutions	Prajna Kumaraswamy	WforW Foundation
	PP31	Modular Floating Duckweed Systems with Low-Cost IoT for Nutrient Recovery in Zambia	Desly Kalonga	Center for Water Sanitation and Rehabilitation
	PP32	Up-flow Compact Constructed Wetland based Sewage Treatment Plant (UCCW based STP): Design, Optimization, and Field-Scale Implementation	Satyendra	Visvesvaraya National Institute of Technology (VNIT), India
	PP33	Blue Carbon Ecosystems as Nature-Based Solutions for Water Quality Improvement and Sustainable Small-Scale Fisheries: Insights from Coastal India	Navya Vikraman Nair	University of Victoria
	PP34	Lab-Scale Treatment of Synthetic Textile Wastewater Using Okra Seed and Pod as Natural Coagulants	Salamat Hayatu	Kaduna State University