

#EnvChem2023: Chemistry of the Whole Environment

Thursday June 1st 2023

9:30:00 am	10:15:00 am	Registration and coffee		
10:15:00 am	10:30:00 am	Welcome- Dr Caroline Gauchotte-Lindsay		
10:30:00 am	11:15:00 am	Keynote	Sharon Pfleger	From bench to impact: making a difference with environmental chemistry research
Session 1		Pharmaceuticals in the Environment I- Chair Dr Caroline Gauchotte-Lindsay		
11:15:00 am	11:35:00 am	talk 1	Gabriele Frascaroli	Occurrence of antibiotics responsible for the development of antimicrobial resistance in wastewater treatment plants and their removal via microalgae.
11:35:00 am	11:55:00 am	talk 2	Kemi Oloyede	Measurement and in silico prediction of pharmaceutical biotransformation in receiving water
12:00:00 pm	12:20:00 pm	talk 3	Hamed Rasouli-Sadabad	Antimicrobial resistance spread during antibiotics removal from water by adsorption
12:20:00 pm	12:40:00 pm	talk 4	Tathagata Pal	Handheld cost-effective optical fiber biosensor for detection of ciprofloxacin and enrofloxacin in environmental samples
12:40:00 pm	1:25:00 pm	Lunch		
Session 2		Pharmaceuticals in the Environment II- Dr Helena Rapp Wright		
1:25:00 pm	1:45:00 pm	talk 5	Lydia Niemi	Innovative data visualisation tool to explore relationships between pharmaceutical prescribing and environmental occurrence
1:45:00 pm	2:05:00 pm	talk 6	Deborah Reid	Analysis of antibiotic and heavy metal contamination in wastewater to assess contribution to antimicrobial resistance
2:05:00 pm	2:25:00 pm	talk 7	Emma O'Sullivan-Carroll	Development of greener analytical methods for the detection of active pharmaceutical ingredients in wastewater effluents using capillary zone electrophoresis
2:30:00 pm	2:50:00 pm	talk 8	Alexandra Richardson	The IMPART project, a citizen science approach to using passive samplers to monitor for emerging contaminants
2:50:00 pm	3:50:00 pm	Posters Session		
Session 3		Legacy and Emerging Contaminants- Dr Peter Baugh		
3:50:00 pm	4:10:00 pm	talk 9	Andrew Hursthouse	Resource exploitation and environmental impact: challenges from China's rapid
4:10:00 pm	4:30:00 pm	talk 10	Laura McGregor	Non-target screening of polar organics in cigarette leachate by immersive sorptive extraction and GCxGC-TOF MS
4:30:00 pm	4:50:00 pm	talk 11	Mark Barrow	Tracking the history of polycyclic aromatic compounds in the River Thames estuary using Fourier transform ion cyclotron resonance mass spectrometry
4:50:00 pm	5:10:00 pm	talk 12	Keng Tiong Ng	Development of a rapid LC-MS/MS method for explosive substances in complex matrices
5:15:00 pm	6:00:00 pm	Keynote	William Peveler	From water to whisky: golden opportunities in analysis with plasmonic particles

Friday June 2nd 2023

8:30:00 am	9:00:00 am	Registration and coffee		
9:00:00 am	9:45:00 am	Keynote	Emma Holland-Lindsay	End Plastic Soup – The Women's Institute's campaign to tackle microplastic fibre pollution
Session 4		Microplastics- Laura Alcock		
9:45:00 am	10:05:00 am	talk 13	Gideon Idowu	Microplastics and plastic-related organic contaminants in Africa's freshwater and marine environments
10:05:00 am	10:25:00 am	talk 14	Louise Hamdy	High-Throughput screening of sediments for microplastic pollution: Adapting an automated mineralogy approach
10:25:00 am	10:45:00 am	talk 15	Peter Hollings	Assessing the retention of new and emerging pollutants in nature-based solutions by online SPE LC-MS and μ FTIR microscopy.
10:45:00 am	11:15:00 am	Coffee Break		
Session 5		Soil Systems- Dr Carla Comadran Casas		
11:15:00 am	11:35:00 am	talk 16	Lucia Rodriguez-Freire	PFAS distribution in contaminated soils and impact on rhizosphere and plant microbiota
11:35:00 am	11:55:00 am	talk 17	Claudia Rocco	Investigation into stability of micronutrient complexes with PDMA, a novel ligand as fertilizer
11:55:00 am	12:15:00 pm	talk 18	Niall Marsay	Development and optimisation of rapid analysis of weathered slag using portable XRF
Session 6		Water Treatments- Dr Baptiste Poursat		
12:20:00 pm	12:40:00 pm	talk 19	Nitin Khandelwal	Engineered iron nanostructures on different surfaces for continuous water purification
12:40:00 pm	1:00:00 am	talk 20	Bence Solymosi	Disentangling adsorption from true catalytic degradation in advanced oxidation processes
1:00:00 am	1:20:00 am	talk 21	Adamu Rasheed	Comparative studies of crystal violet dye removal kinetics between NaOH and KOH
1:20:00 pm	2:10:00 pm	Lunch		
2:10:00 pm	2:55:00 pm	Keynote	Salim Alam Keynote	Oxidation Chemistry in the Atmospheres of Global Megacities
Session 7		Indoor and Outdoor Air- Dr Rowenna Fletcher-Wood		
2:55:00 pm	3:15:00 pm	talk 22	Amber Yeoman	Atmospheric fate of consumer products - the neglected environmental fate and their impact on indoor air quality
3:15:00 pm	3:35:00 pm	talk 23	Holly Walder	Development of low-cost miniaturized passive air samplers for measuring (semi) volatile organic compounds in personal, indoor and outdoor environments
3:35:00 pm	3:55:00 pm	talk 24	Jessica Gabb	Measuring natural gas with raman spectroscopy
3:55:00 pm	4:15:00 pm	talk 25	Thomas Warburton	The effect of ventilation on exposure to indoor VOCs in Bradford
4:20:00 pm	4:30:00 pm	Prizes and Conclusions- Dr Rowenna Fletcher-Wood, Dr Michelle Bloor and Dr Caroline Gauchotte-Lindsay		