

Plastics in the environment

CONFERENCE PROGRAMME

15 March		
08.55	Virtual Lobby /Sign In	
09.00	Welcome Address Dr Gordon Inglis, conference convener	
09.10	KEYNOTE The challenge of understanding plastic fate and transport in a global context Alice Horton, <i>National Oceanography Centre</i>	
Session 1: Plastics and their interaction with organisms		
09.40	Ocean acidification alters bacterial communities on marine plastic debris Jason Hall-Spencer, <i>Universities of Plymouth (UK) and Tsukuba (Japan)</i>	
09.55	Fate of microplastics in terrestrial ecosystems: egestion and potential toxicity to earthworms Miranda Prendergast-Miller, Northumbria University	
10.05	Mineral formation on plastics: implication for plastic transport, degradation and	
	persistence	
10.25	Kelsey Rogers, University of Copenhagen Poster Flash Talks	
	 Investigating seasonality in microplastic behaviour in coarse-grained fluvial sediments of the River Thames Catchment (UK) Karolina Skalska, University of Brighton Microplastic in the Antarctic marine food web: a first assessment Julian Blumenroeder, University of Hull Understanding marine microplastic dynamics using macroplastics as a proxy Nicole Allison, Scottish Association for Marine Science The hidden microbial world of environmental plastic: an initial examination of the interactions between plastic and aquatic microbial communities in a freshwater environment. Katey Valentine, The University of York Sources, transfer and fate of microplastics in the Arctic marine environment Hollie Ball, Lancaster University 	
10.40	Break	
Session 2: Plastics along the terrestrial-aquatic continuum		
11.00	KEYNOTE River corridors as hotspots of global plastic pollution Stefan Krause, <i>University of Birmingham</i>	
11.30	Role of saltmarsh systems in estuarine trapping of microplastics Chiedozie C. Ogbuagu, NOCS	

11.45	High accumulation rates of small and low-density microplastics in river bed sediments
	Jennifer Drummond, University of Birmingham
12.00	Distribution and concentration of microplastics in an estuarine to shallow marine
12.00	transition zone: the Mersey Estuary and Liverpool Bay.
	Edward Keavney, The University of Leeds
12.15	Seasonal Trends in Microplastic Abundance in the Southampton Water estuarine
	complex, U.K.
	Jessica Stead, University of Southampton
12.30	Lunch
	Session 3: Plastics in the marine realm
13.30	Deep-sea circulation creates seafloor microplastic hotspots Mike Clare, NOCS
13.45	The influence of depositional environment on the abundance of microplastic
	pollution on beaches in the Bristol Channel, UK
	Daniel Wilson, University of Exeter
14.00	Microplastic in marine, nearshore waters of South Georgia: a study of background
	environmental levels of microplastic contamination Jack Buckingham, <i>University of Hull</i>
14.15	Fishmeal as a source of environmental microplastics
14.10	Chloe Way, University of Southampton
14.30	Microplastics in the environment - a sedimentological challenge
	Ian Kane, University of Manchester
14.45	Flash Poster Talks
	Coastal accumulation zones in NW Scotland, implications for the circulation
	of plastic in the environment
	Julien Moreau, <i>Plastica Bay</i>
	Characterizing and Medalling the Transfer of Macroplastic Debris in Rivers
	 Characterising and Modelling the Transfer of Macroplastic Debris in Rivers Robert Newbould, University of Leicester
	• TBC
	Michel Kaiser, Herriot Watt
	Cashind breading islands as sinks for manine plastic debuis
	 Seabird breeding islands as sinks for marine plastic debris Megan Grant, Institute for Marine and Antarctic Studies, Tasmania
	Megan Grant, institute for Marine and Antarctic Studies, Tasmania
	• The impact of bio-modulated flocculation on the fate and ecological risk of
	microplastics in river-estuary transition zones
	Freija Mendrik, University of Hull
15.00	Break
	Multiple digestion cycles' method with Fenton reagent for microplastic detection in
	waste water and sludge samples
	Serena Cunsolo, University of Portmouth

15.30	Flume studies help to uncover the transport of polyamide microplastics at the
	sediment-water interface.
15.45	Uwe Schneidewind, <i>University of Birmingham</i> Color-quantitation of microplastic particles using multispectral imaging flow
10.45	cytometry
	Julia Sophie Boeke, <i>Leibniz IPHT</i>
16.00	Collaboration and infrastructure are needed to develop an African perspective on
	micro(nano)plastic pollution Holly Nel, <i>University of Birmingham</i>
16 15	Flash Poster Talks
10.15	
	The effect of the use of different starches in the physico-chemical characteristics of thermoset bioplastics Jane Stanley, Institute of Technology Carlow
	• Sources and concentration of micro and macro plastics in the water column and coastal sand in Jangamo Bay, Mozambique Francesca Trotman, Love the Oceans
	 Quantitative identification of microplastic using an automated mineralogical and infrared approach David Gold, CGG
	Controls on microplastic deposits in stratigraphy non-cohesive sediments
	Lucrecia Alvarez, University of Hull
	Microplastics in the ocean: Accumulation in marine sediments and vertical transfer through intertidal food webs Felicitas Ten Brink, University of Hull
	• The effects of microplastics on chemical toxicity to aquatic organisms: a review Danielle Marchant, <i>Queen Mary University of London</i>
16.20	Poster Session
17.45	Close