

## Agenda



# REEF-UKC

# Reef-UKC Workshop

19th June 2025,  
Conference Aston, Aston University

Session Chair : Dr Abed Alaswad

Time	Activity	Speaker	Title of Presentation	
09:00-09:30	Arrivals & Registrations			
Session 1	09:30-09:45	Welcome & Introduction	<b>Dr Ahmed Rezk</b> Aston University	<i>REnewable Energy access for Future UK Net-Zero Cooling</i>
	09:45-10:00	Keynote	<b>Prof Zhibin Yu</b> University of Liverpool	<i>Cooling Demand Prediction in London Using a Physical/ML Models</i>
	10:00-10:15	Keynote	<b>Mr Neil Wilson</b> Camfridge Ltd	<i>Magnetic Cooling and NetZero at Camfridge</i>
	10:15-10:30	Keynote	<b>Dr Dermot Cotter</b> Institute of Refrigeration	<i>Net Zero in the Refrigeration Industry</i>
	10:30-10:45	Keynote	<b>Prof Satyanarayanan Seshadri</b> Indian Institute of Technology, Madras, India	
	10:45-11:00	QnA Session		

11:00-11:15

Tea, Coffee & Networking Break

Session Chair: Dr Henrique Lagoeiro, LSBU

Time	Project / Activity	Speaker	Title of Presentation	
Session 2	11:15-11:30	WHARM Project	<b>Dr Henrique Lagoeiro</b> London South Bank University	<i>Waste Heat Assessment and Resource Mapping (WHARM)</i>
	11:30-11:45	Digital Twin	<b>Armin Esmailzadeh &amp; Mohammad Mehdi Keramati</b> Aston University	<i>AI-Assisted Digital Twin of a Solar-Powered Refrigeration System for Clean Refrigerated Transport in UK</i>
	11:45-12:00	Mixed Circuit Injection	<b>Dr Christopher Simon Brown</b> British Geological Survey	<i>Investigating mixed-circuit injection-extraction strategies between borehole heat exchangers in a cooling dominated system</i>
	12:00-12:15	Energy Pile Systems	<b>Ms Fatemeh Ardakani</b> University of Birmingham	<i>Optimising Energy Pile Systems for Efficient Cooling: A Digital Twin Approach</i>
	12:15-12:30	QnA Session		

12:30-13:30

Lunch & Networking Break

Session Chair: Tonia Clark, Birmingham City Council

Time	Activity	Title / Speaker	
Session 3	13:30-14:30	Interactive Session 1	<b>Elevator Pitch</b>
	14:30-14:50	An EPSRC update	<b>Mr Gerard Davies</b> , EPSRC
14:50-15:05		Tea, Coffee & Networking Break	
15:05-16:20	Interactive Session 2	<b>Comic Poster</b>	
16:20-16:30	Seed Funding Round 2	<b>Dr Ahmed Rezk</b> , Aston University	

16:30-18:00

Drinks Reception & Networking