

MONDAY 12 SEPTEMBER 2022		
Conference Theatre, East Midlands Conference Centre, Nottingham		
SESSION 1	Nigel Minton (SBRC-Nottingham, UK)	
8.55-9.00	Nigel Minton <i>The Carbon Recycling Network, UK</i>	Welcome & Opening Words
9.00-9.30	INVITED TALK - Shivani Garg <i>LanzaTech, USA</i>	Towards a New Carbon Economy: Upcycling Waste Gases into Fuels And Chemicals One Carbon Molecule At a Time
9.30-9.50	Henri Ingelman <i>University of Tartu, Estonia</i>	Autotrophic Adaptive Laboratory Evolution Of The Acetogen <i>Clostridium Autoethanogenum</i> Delivers A Gas-Fermenting Strain With Superior Growth, Products And Robustness
9.50-10.10	Bastian Molitor <i>University of Tübingen, Germany</i>	Accessing <i>Methanothermobacter thermautotrophicus</i> as a Platform Host for the Production of Chemicals from Molecular Hydrogen and Carbon Dioxide
10.10-10.30	Margaux Poulalier Delavelle <i>SBRC, University of Nottingham, UK</i>	Characterization of <i>Acetobacterium woodii</i> as an Industrial Chassis for Sustainable Chemical Production
10.30-11.00	COFFEE/TEA BREAK	Atrium
SESSION 2	CHAIR: Sonia Heaven (University of Southampton, UK)	
11.00-11.30	INVITED TALK – Craig Woods <i>DeepBranch, UK</i>	Single Cell Protein and the Substrate of Industrial Fermentations
11.30-11.50	Ken Omersa <i>Omnagen Ltd, UK</i>	Electrochemical conversion of biogas to syngas
11.50-12.10	Reuben Carr <i>Ingenza, Ltd UK</i>	Developing CCU applications ready for industrial implementation
12.10-12.30	Joanna Sparks <i>Supergen Bioenergy Hub, Aston University, UK</i>	Carbon Recycling Network Policy Engagement Update: Understanding and Enabling The Potential Of Biological Systems For Carbon Dioxide Utilisation
12.30-13.30	LUNCH	Atrium
13.30-14.30	POSTER SESSION & EXHIBITION	Conference Suites 3 & 4
SESSION 3	CHAIR: Reuben Carr (Ingenza Ltd, UK)	
14.30-15.00	INVITED TALK – Arren Bar even Lecture Volker Müller <i>Goethe University, Germany</i>	Electron bifurcation New perspectives on a long-hidden energy-coupling mechanism
15.00-15.20	James Millard <i>SBRC, University of Nottingham, UK</i>	Forward and Reverse Genetics in <i>Eubacterium limosum</i>
15.20-15.40	Frank Bengelsdorf <i>Ulm University, Germany</i>	Lactate-mediated co-cultivation of <i>A. woodii</i> and <i>C. drakei</i> for medium-chain organic acids production
16.20-16.40	Jordan Oliver <i>University of South Wales, UK</i>	Optimising the NAD Metabolome in Bio-electrochemical Systems
16.40 -16.45	CLOSE DAY 1	
17.30-19.00	MANAGEMENT BOARD MEETING	Worcester Suite, Orchard Hotel
19.00	DRINKS RECEPTION & CONFERENCE DINNER	Atrium & Conference Theatre

TUESDAY 13 SEPTEMBER 2022		
Conference Theatre, East Midlands Conference Centre, Nottingham		
SESSION 4	CHAIR: Saul Purton (<i>University College London, UK</i>)	
9.00-9.30	INVITED TALK – Aniek Van der Woude <i>Photanol BV, The Netherlands</i>	Cyanobacterial cell factories: a showcase of organic acid production
9.30-9.50	Jose Munoz <i>Northumbria University, UK</i>	Algal treasures to convert CO2 and waste streams into Biogas
9.50-10.10	Corinna Hartinger <i>University of Oxford, UK</i>	Constraint-based Modelling to Investigate and Enhance Carbon Conversion Efficiency in <i>Marchantia polymorpha</i>
10.10-10.30	Verena Kriechbaumer <i>University of Oxford, UK</i>	pMMO In Plants For Methane Detoxification
10.30-11.00	COFFEE/TEA BREAK	Atrium
SESSION 5	CHAIR: Geoff Bryant (<i>Calysta, UK</i>)	
11.00-11.30	INVITED TALK – Lori Giver <i>Calysta, USA</i>	Calysta's Journey to Scaling Up Production and Reducing Carbon Intensity
11.30-11.50	Qiang Li <i>Centre for Process Innovation, UK</i>	Susfeed Project: Decarbonation of Methane Gas Fermentation Using Mixed Bacterial Cultures
11.50-12.10	Bashir Rumah <i>SBRC, University of Nottingham, UK</i>	In vivo genome editing of type I and type II methanotrophs using CRISPR-Cas9 system
12.10-12.30	Thomas Smith <i>Sheffield Hallam University, UK</i>	Genomic Potential of Aerobic Methanotrophs for Methane-Driven Transformations of Metals and Metalloids
12.30-13.30	LUNCH	Atrium
13.30-14.30	POSTER SESSION & EXHIBITION	Conference Suites 3 & 4
SESSION 6	CHAIR: Mark Poolman (<i>Oxford Brookes University, UK</i>)	
14.30-15.00	INVITED TALK – Paul Hudson <i>KTH Royal Institute of Technology, Sweden</i>	Metabolic engineering enhances conversion of formate to the bioplastic PHB in <i>Cupriavidus necator</i>
15.00-15.20	Marco Garavaglia <i>SBRC, University of Nottingham, UK</i>	Identification of Conditionally-Essential Genes in <i>Cupriavidus necator</i> H16, Using a Combination of <i>in vivo</i> (TraDIS) and <i>in silico</i> (GSM) Approaches
15.20-15.40	Shouyong Jiang <i>University of Aberdeen, UK</i>	Computational modelling of microbial metabolic networks and its application to strain design
15.40-16.00	Alice Mortiboy Potter Clarkson, UK	IP Essentials for Academics and Founders
16.00-16.15	Nigel Minton <i>The Carbon Recycling Network, UK</i>	Closing remarks
16.15-16.30	REFRESHMENTS AND DEPART End of Conference	