

PROGRAMME

MONDAY 25th July 2016		
SESSION 1 - Chair: David Fell (Oxford Brookes University, UK) – Hall B - East Midlands Conference Centre		
09.00 – 09.05	Jacque/Nigel Minton <i>SBRC-Nottingham, UK</i>	Welcome
09.05 – 09:35	Rolf Thauer <i>Max Plank Institute, Germany</i>	How Acetogens Form Ethanol when Growing on Syngas
09.35 – 10.05	Sean Simpson <i>LanzaTech Inc, USA</i>	Recycling Carbon: Gas fermentation Enables Recycling of Waste to Valuable Commodities
10:05 – 10:20	Florence Annan <i>SBRC-Nottingham, UK</i>	Using Synthetic Biology to fix the Pantothenate Pathway in two Gas Fermenting Species of Clostridia
10:20 – 10:35	Phillip Wright <i>Newcastle University, UK</i>	Quantitative Proteomic Profiling of <i>Clostridium autoethanogenum</i> Strains (POC FUNDED)
10:35 - 10:50	Peter Rowe <i>SBRC-Nottingham, UK</i>	Developing a Modularized Toolset for CRISPR-Based Technologies in Acetogens
10:50 - 11:15	Coffee/Tea Break	Hall A - East Midlands Conference Centre
Session 2 - Chair: Arild Johannessen (Calysta, UK) - Hall B - East Midlands Conference Centre		
11:15 – 11:45	Josh Silverman <i>Calysta, USA</i>	Methane biotechnology: a C1 platform for production of value-added feed and chemicals
11:45 – 12:15	Colin Murrell <i>University of East Anglia, UK</i>	Catalytic and Metabolic Versatility in Methanotrophs
12:15 – 12:30	Tom Smith <i>Sheffield Hallam University, UK</i>	Bioremediation of Inorganic Pollutants by Methane-Oxidising Bacteria
12.30 – 12:45	David Fell <i>Oxford Brookes University, UK</i>	Metabolic Modelling to Support Synthetic Biology in C1net Organisms (POC FUNDED)
12:45 – 13:00	Ying Zhang <i>SBRC-Nottingham, UK</i>	Industrially-Driven Discovery of C1-utilising Microorganisms (POC FUNDED)
13:00 – 14:30	Lunch	Hall A - East Midlands Conference Centre
Session 3 - Chair: Sean Simpson (Lanzatech, USA) - Hall B - East Midlands Conference Centre		
14:30 – 15:00	Miriam Rosenbaum <i>RWTH Aachen University, Germany</i>	Characterizing and Advancing <i>Clostridium ljungdahlii</i> for Bioelectrochemical Applications
15:00 – 15:15	Jasbir Singh <i>Hel Ltd, UK</i>	Practical Approach to Flammability Hazard Problems in Gas Fermentation Research
15:15 – 15:30	Valentina Mangiafridda <i>Centre for Process Innovation, UK</i>	C1 Gas Fermentation Lab in CPI: Scale-Down Flexibility Integrated With Safety Operations
15:30 – 16:00	Richard Dinsdale <i>University of South Wales, UK</i>	In-situ Multiphase Compartmentalised Substrate Shuttle Bioreactor for Protein and Platform Chemicals (POC FUNDED)
16:00 – 16:15	Coffee/Tea Break	Hall A - East Midlands Conference Centre
16:15 - 17:15	PITCHES	Hall B - East Midlands Conference Centre 15 x 3 minute pitches
17:15 – 19:00	POSTERS/ Refreshments	Hall A - East Midlands Conference Centre (Concurrent MB meeting - 18:00 – 19:30 - Suite 4 EMCC)
20:00	Dinner	Hall B - East Midlands Conference Centre

TUESDAY 26th July 2016**Session 4 - Chair: William Gabrielli (Sasol UK Ltd) - Hall B - East Midlands Conference Centre**

09.00 – 09:30	Christian Kennes <i>University of La Coruña, Spain</i>	Bioconversion of CO-rich Syngas/Waste Gas to Higher Alcohols by <i>Clostridium</i> in Bioreactors
09.30 – 10:00	Linsey Garcia-Gonzalez <i>VITO NV, Belgium</i>	Valorization of CO ₂ -rich Off-gases to Monomers and Polymers Through Biotechnological Process
10:00 – 10:15	Mahendra Raut <i>University of Sheffield, UK</i>	Optimizing low cost C1/C2 compound production and fermentation from biomass solid waste (POC FUNDED)
10:15– 10:30	Reuben Carr <i>Ingenza, UK</i>	Analysis of Sustainable Feedstock Options and Biotechnology Readiness for Developing Industrial Scale Fermentation to Produce Chemicals
10:30 – 10:45	William Zimmerman <i>University of Sheffield</i>	Microbubble Intensification of Bioprocessing: Bioreactor Acceleration and Downstream Separations
10:45 – 11:15	Coffee/Tea Break	Hall A - East Midlands Conference Centre

Session 5 - Chair: Edward Green (Chain Biotech, UK) - Hall B - East Midlands Conference Centre

11:15 – 11:45	Peter Dürre <i>University of Um, Germany</i>	Autotrophic Acetogens: Genomics, Physiology, and Biotechnological Applications
11:45 – 12:15	Stéphane Guillouet <i>INSA de Toulouse, France</i>	Metabolic pathway engineering in <i>Cupriavidus necator</i> as platform for biofuel and chemicals production from CO ₂
12:15 – 12:30	Samantha Bryan <i>SBRC-Nottingham, UK</i>	Engineering Improved Ethylene Production in <i>Cupriavidus necator</i>
12:30 – 12:45	Katalin Kovacs <i>SBRC-Nottingham, UK</i>	3-HP Production in <i>Cupriavidus necator</i>
12:45– 13:00	Noah Mesfin <i>Oxford Brookes University, UK</i>	Modelling Central Carbon Metabolism of <i>Acetobacterium woodii</i> DSM1030 Using a Genome-Scale Metabolic Model
13:00 – 14.30	Lunch	Hall A - East Midlands Conference Centre

Session 6 - Chair: Nigel Minton (SBRC-Nottingham, UK) - Hall B - East Midlands Conference Centre

14:30 – 15.00	Arren Bar-Even <i>Max Planck Institute, Germany</i>	The Formate Bio-Economy Concept: Addressing Humanity's Grand Challenges
15:00 - 15:15	Florian Oswald <i>Karlsruhe Institute for Technology, Germany</i>	Upgrading the Toolbox For Fermentation of (Crude) Syngas: From Syngas to Malic Acid
15:15 – 15:30	Bart Pander <i>SBRC-Nottingham, UK</i>	Functional Carbonic Anhydrase of <i>Clostridium autoethanogenum</i>
15:30 – 15:45	David Hodgson <i>Durham University, UK</i>	Carbamate Trapping—A New Tool for Understanding Protein-CO ₂ Interactions
15:45 – 16:00	Verena Kriechbaumer <i>Oxford Brookes University, UK</i>	PMMO In Plants
16:00 – 16:10	Nigel Minton <i>SBRC-Nottingham, UK</i>	Wrap up and Next Steps
16:10 - 17:00	Refreshments/ Depart	Hall A - East Midlands Conference Centre