

<b>MONDAY 21 JANUARY 2019</b>		
<b>SESSION 1</b>	<b>CHAIR: Rolf Thauer (<i>Max Planck Institute, Germany</i>) Conference Theatre - EMCC</b>	
9:00-9:05	<b>Nigel Minton</b> <i>SBRC-Nottingham, UK</i>	Welcome
9:05-9:45	<b>Sean Simpson</b> <i>Lanzatech, USA</i>	INVITED TALK - Carbon recycling: commercializing a C1 fermentation process
9:45- 10:05	<b>In Seop Chang</b> <i>Gwangju Institute of Science and Technology, Republic of Korea</i>	Producing Nonnative Ethanol as a Major Product from Syngas Fermentation of an Engineered <i>Eubacterium limosum</i> KCTC1326BP
10:05-10:25	<b>Anja Wiechmann</b> <i>University of Frankfurt, Germany</i>	Hydrogen Cycling is Essential for Growth of the Acetogen <i>Acetobacterium woodii</i>
10:25-10:45	<b>Thomas Millat</b> <i>SBRC-Nottingham, UK</i>	Regulation of Metabolic Activity in <i>Clostridium autoethanogenum</i>
10:45-11:15	<b>COFFEE/TEA BREAK</b>	<b>Atrium - EMCC</b>
<b>SESSION 2</b>	<b>CHAIR: Sean Simpson (<i>LanzaTech, USA</i>) Conference Theatre - EMCC</b>	
11:15–11:55	<b>Volker Müller</b> <i>University of Frankfurt, Germany</i>	INVITED TALK - Physiological role and functional analyses of a novel enzyme for CO <sub>2</sub> reduction, the hydrogen-dependent CO <sub>2</sub> reductase
11:55-12:15	<b>Katalin Kovacs</b> <i>SBRC-Nottingham, UK</i>	Metabolic Engineering Of <i>Cupriavidus necator</i> H16 For The Sustainable Production Of C3 And C5 Monomers And Polymers
12:15-12:35	<b>Frank Bengelsdorf</b> <i>Ulm University, Germany</i>	Waste to Value - Production of the Bioplastic Poly(3-hydroxybutyrate) (PHB) and its Precursor 3-hydroxybutyrate (3-HB) from Waste gas
12:35- 12:55	<b>Matthias Beck</b> <i>Ulm University, Germany</i>	Conversion of CO <sub>2</sub> to the Platform Chemical 3-Hydroxypropanoic Acid (3-HP) Using Metabolically Engineered Strains of <i>Acetobacterium woodii</i>
12:55-14:00	<b>LUNCH</b>	<b>Atrium - EMCC</b>
<b>SEESION 3</b>	<b>CHAIR: David Fell (<i>Oxford Brookes University, UK</i>) Conference Theatre - EMCC</b>	
14:00-14:40	<b>Bryan Tracy</b> <i>White Dog Labs, USA</i>	INVITED TALK - Improving Biochemical Yields Through the Concurrent Consumption of Carbohydrates and C1 Gases
14:40-14:55	<b>Sandra Esteves</b> <i>University of South Wales, UK</i>	POC TALK - Novel PHA platform synthesized by anaerobic mixed bacteria in a single step gas fermentation
14:55-15:10	<b>Claudio Avignone Rossa</b> <i>University of Surrey, UK</i>	POC TALK - Microbial Electrosynthesis for the Capture and Transformation of CO <sub>2</sub> into Multicarbon Organic Compounds
15:10-15:25	<b>Ying Zhang</b> <i>SBRC-Nottingham, UK</i>	POC TALK - Reduce process carbon footprint- anaerobic fermentation of methane through reversion of methanogenesis
15:25-15:40	<b>Kamelia Boodhoo</b> <i>Newcastle University, UK</i>	POC TALK - Scalable engineering approaches for exploiting a novel biocomposite material applied to light-driven CO <sub>2</sub> absorption and utilization
15:40-17:30	<b>POSTERS AND REFRESHMENTS</b>	<b>Atrium - EMCC</b>

<b>TUESDAY 22 JANUARY 2019</b>		
<b>SESSION 4</b>	<b>CHAIR: Arild Johannessen (NORCE Norwegian Research Centre AS)</b> <b>Conference Theatre - EMCC</b>	
9:00-9:40	<b>Wolfgang Buckel</b> <i>Philipps-University, Marburg, Germany</i>	INVITED TALK - Electron Bifurcation in C1-Fermentations
9:40-10:00	<b>Charles Cotton</b> <i>Max Planck Institute, Germany</i>	Making Quantitative Sense of Electromicrobial Production
10:00-10:20	<b>Marie Schoelmerich</b> <i>University of Hamburg, Germany</i>	Regulation of Lactate Metabolism in the Acetogenic Bacterium <i>Acetobacterium woodii</i>
10:20-10:40	<b>Mohit Dalwadi</b> <i>University of Oxford, UK</i>	Relating Bacterial Properties To The Measured Effective Uptake in Gas Fermentation Using Multiscale Mathematical Modelling
10:40-11:15	<b>COFFEE/TEA BREAK</b>	<b>Atrium - EMCC</b>
<b>SESSION 5</b>	<b>CHAIR: Stephen Poulston (Johnson Matthey Technology, UK)</b> <b>Conference Theatre - EMCC</b>	
11:15-11:55	<b>Arren Bar-Even</b> <i>Max Planck Institute, Germany</i>	INVITED TALK - Engineering aerobic formate assimilation via the highly efficient reductive glycine pathway
11:55-12:10	<b>Robert Mansfield</b> <i>SBRC-Nottingham, UK</i>	POC TALK - Development of an assembly-based, recombineering pipeline for overcoming recalcitrance to DNA transfer caused by RM systems in C1 chassis
12:10-12-25	<b>Alex Grosse-Honebrink</b> <i>SBRC-Nottingham, UK</i>	POC TALK - High value uses of waste methane from landfill and biogas methane from anaerobic digestion
12:25-12:40	<b>William Zimmerman</b> <i>University of Sheffield, UK</i>	BIV TALK - Intensifying Fermentation, the microbubble way!
12:40-12:55	<b>Martin Warren</b> <i>University of Kent, UK</i>	POC TALK - Towards a Recombinant Pathway for Butanediol Biogenesis in Acetogens
12:55-14:00	<b>LUNCH</b>	<b>Atrium - EMCC</b>
<b>SESSION 6</b>	<b>CHAIR: Gary Smith (Invista, UK) Conference Theatre - EMCC</b>	
14:00-14:40	<b>E. Terry Papoutsakis</b> <i>University of Delaware, USA</i>	INVITED TALK - Direct cell-to-cell exchange of matter in a synthetic Clostridium syntrophy enables CO <sub>2</sub> fixation, superior metabolite yields, & an expanded metabolic space
14:40-15:00	<b>Diana Sousa</b> <i>Wageningen University, The Netherlands</i>	Tailored Microbial Consortia for Syngas Fermentation
15:00-15:20	<b>Romain Tuffou</b> <i>University of South Wales, UK</i>	Continuous Production of Acetate from Hydrogen and Carbon Dioxide Using Mixed Culture
15:20-15:40	<b>Kamran Jawed</b> <i>SBRC-Nottingham, UK</i>	Mixotrophic fermentation of <i>C. necator</i> H16 for PHA production
15:40-17:30	<b>POSTERS AND REFRESHMENTS</b>	<b>Atrium - EMCC</b>
17:00-19:00	<b>MANAGEMENT BOARD MEETING</b>	
19:30	<b>CONFERENCE DINNER</b>	<b>Conference Theatre – EMCC</b>

<b>WEDNESDAY 23 JANUARY 2019</b>		
<b>SESSION 7</b>	<b>CHAIR: Preben Krabben (<i>C1net Management Board</i>)- Conference Theatre - EMCC</b>	
9:00-9:40	<b>Byung-Kwan Cho</b> <i>Korea Advanced Institute of Science and Technology, Republic of Korea</i>	INVITED TALK - Systems and Synthetic Biology of Acetogenic Bacteria
9:40-10:00	<b>Muhammad Yasin</b> <i>COMSATS University Islamabad, Pakistan</i>	Microbial Bioprocessing: Optimum Reactor Design for Carbon monoxide (CO) Fermentation
10:00-10:20	<b>Jasbir Singh</b> <i>HEL Ltd, UK</i>	Gas fermentation of <i>Cupriavidus necator</i> H16 and variant at elevated pressure
10:20-10:40	<b>Reuben Carr</b> <i>Ingenza, UK</i>	Improving the Sustainability of Biobased Manufacturing
10:40-11:15	<b>COFFEE/TEA BREAK</b>	<b>Atrium - EMCC</b>
<b>SESSION 8</b>	<b>CHAIR: Tithira Wimalasena (<i>Calysta UK Ltd</i>) Conference Theatre - EMCC</b>	
11:15-11:55	<b>Lori Giver</b> <i>Calysta, USA</i>	INVITED TALK - FeedKind™ Protein: A Sustainable Approach to Meeting the Growing Protein Demand
11:55-12:10	<b>Dirk Holtman</b> <i>Dechema - Forschungs Institut (DFI), Germany</i>	Methanogens in Electrobiotechnology: electron transfer mechanism and reactor design
12:10-12:25	<b>Eun Yeol Lee</b> <i>Kyung Hee University, Republic of Korea</i>	Metabolic Engineering of Methanotrophs as Cell Factory for Methane-to-Chemicals Conversion
12:25-12:40	<b>Tatiana Spatola Rossi</b> <i>Oxford Brookes University, UK</i>	Bacterial methane monooxygenases in plants for methane detoxification
12:40-13:00	<b>Yue Zhang</b> <i>University of Southampton, UK</i>	Biomethanisation of CO <sub>2</sub> using H <sub>2</sub>
13:00-13:10	<b>Nigel Minton</b> <i>SBRC-Nottingham, UK</i>	Closing remarks
13:10-14:30	<b>LUNCH AND DEPART</b>	<b>Atrium - EMCC</b>