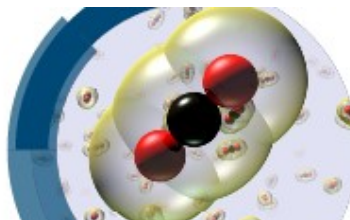


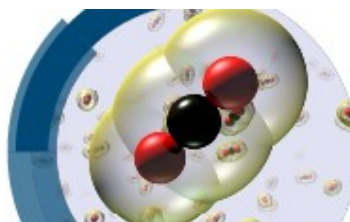
Wednesday 7 April 2021 (GMT)

13:00	<b>Welcome and Introductions</b> <i>Peter Styring, Chair of Scientific Committee</i>
13:10	<b>Outline of Discussion Format</b> <i>Royal Society of Chemistry Publishing Editors</i>
13:30	<b>Introductory Lecture</b> (Session Chair: Peter Styring) Volker Sick <i>University of Michigan</i>
14:30	Break
	<b>Session 1: Thermal catalytic conversion</b> (Session Chair: Richard Catlow)
15:00	<b>The role of surface oxidation and Fe–Ni synergy in Fe–Ni–S catalysts for CO<sub>2</sub> hydrogenation</b> Nora Henriette de Leeuw <i>University of Leeds, UK</i>
15:05	<b>Identification of C<sub>2</sub>–C<sub>5</sub> products from CO<sub>2</sub> hydrogenation over PdZn/TiO<sub>2</sub>-ZSM-5 hybrid catalysts</b> Jonathan Ruiz Esquis <i>Cardiff University, UK</i>
15:10	<b>Conversion of CO<sub>2</sub> and small alkanes to platform chemicals over Mo<sub>2</sub>C-based catalysts</b> Wijnand Marquart <i>University of Cape Town, South Africa</i>
15:15	Discussion
16:15	Break
	<b>Session 2: Thermal catalytic conversion</b> (Session Chair: Unni Olsbye)
16:45	<b>How bulk and surface properties of Ti<sub>4</sub>SiC<sub>3</sub>, V<sub>4</sub>SiC<sub>3</sub>, Nb<sub>4</sub>SiC<sub>3</sub> and Zr<sub>4</sub>SiC<sub>3</sub> tune reactivity: A computational study</b> Matthew Quesne <i>Cardiff University, UK</i>
16:50	<b>Understanding catalytic CO<sub>2</sub> and CO conversion into methanol using computational fluid dynamics</b> Stylianios Kyrimis <i>University of Southampton, UK</i>
16:55	Discussion
17:35	Close of formal sessions



Thursday 8 April 2021 (GMT)

12:00	<b>How to publish with impact</b> RSC Publishing 30 minute presentation followed by Q&A
	<b>Session 3: Accelerated mineralisation</b> (Session Chair: Peter Styring)
13:00	<b>Managed pathways for CO<sub>2</sub> mineralisation: analogy with nature and potential contribution to CCUS-led reduction targets</b> Colin Hills <i>University of Greenwich, UK</i>
13:05	<b>Mineral carbonation for serpentine mitigation in nickel processing: A step towards industrial carbon capture and storage</b> Shaihz Khan <i>University of Toronto, Canada</i>
13:10	<b>CO<sub>2</sub> utilization in built environment via the PCO<sub>2</sub> swing carbonation of alkaline solid wastes with different mineralogy</b> Alissa Park <i>Columbia University, USA</i>
13:15	Discussion
14:15	Break
	<b>Session 4: Life cycle and upscaling</b> (Session Chair: Andrea Ramirez and Katy Armstrong)
15:15	<b>Renewable carbon feedstock for polymers: environmental benefits from synergistic use of biomass and CO<sub>2</sub></b> André Bardow <i>ETH Zurich, Switzerland</i>
15:20	<b>Developing a triple helix approach for CO<sub>2</sub> utilisation assessment</b> Stephen McCord <i>University of Sheffield, UK</i>
15:25	<b>Curing time: a temporally explicit life cycle CO<sub>2</sub> accounting of mineralization, bioenergy, and CCS in the concrete sector</b> Samantha Eleanor Tanzer <i>Delft University of Technology, Netherlands</i>
15:30	<b>Reactive capture using metal looping: the effect of oxygen</b> George Dowson <i>University of Sheffield, UK</i>
15:35	Discussion
16:55	Flash posters and poster session
18:30	Close of formal sessions



Friday 9 April 2021 (GMT)

11:00	Poster session
12:00	Break
	<b>Session 5: Emerging technologies</b> (Session Chair: Volker Sick)
13:00	<b>Electrochemical carbon dioxide reduction in ionic liquids at high pressure</b> Alex Cowan <i>University of Liverpool, UK</i>
13:05	<b>Enhanced bio-production from CO<sub>2</sub> by microbial electrosynthesis (MES) with continuous operational mode</b> Eileen Yu <i>Loughborough University, UK</i>
13:10	Discussion
13:50	Break
	<b>Session 6: Emerging technologies</b> (Session Chair: Michael North)
14:45	<b>Integration of aprotic CO<sub>2</sub> reduction to oxalate at a Pb catalyst into a GDE flow cell configuration</b> Max König <i>VITO, Belgium</i>
14:50	<b>Hydrophobic thiol coatings to facilitate a triphasic interface for carbon dioxide reduction to ethylene at gas diffusion electrodes</b> Samuel Perry <i>University of Southampton, UK</i>
14:55	Discussion
15:35	<b>Concluding Remarks Lecture</b> (Session Chair: Michael North) Walter Leitner <i>Max Planck Institute for Chemical Energy Conversion, and RWTH, Aachen University, Germany</i>
16:15	<b>Claire Vallance</b> <i>President, Faraday Division</i>
16:25	<b>Acknowledgements</b>
16:30	<b>Close of meeting</b>