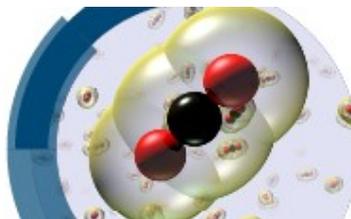




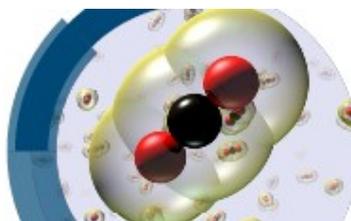
Wednesday 7 April 2021 (GMT)

13:00	Welcome and Introductions <i>Peter Styring, Chair of Scientific Committee</i>
13:10	Outline of Discussion Format <i>Royal Society of Chemistry Publishing Editors</i>
13:30	Introductory Lecture (Session Chair: Peter Styring) Volker Sick <i>University of Michigan</i>
14:30	Break
	Session 1: Thermal catalytic conversion (Session Chair: Richard Catlow)
15:00	The role of surface oxidation and Fe–Ni synergy in Fe–Ni–S catalysts for CO₂ hydrogenation Nora Henriette de Leeuw <i>University of Leeds, UK</i>
15:05	Identification of C₂–C₅ products from CO₂ hydrogenation over PdZn/TiO₂-ZSM-5 hybrid catalysts Jonathan Ruiz Esquis <i>Cardiff University, UK</i>
15:10	Conversion of CO₂ and small alkanes to platform chemicals over Mo₂C-based catalysts Wijnand Marquart <i>University of Cape Town, South Africa</i>
15:15	Discussion
16:15	Break
	Session 2: Thermal catalytic conversion (Session Chair: Unni Olsbye)
16:45	How bulk and surface properties of Ti₄SiC₃, V₄SiC₃, Nb₄SiC₃ and Zr₄SiC₃ tune reactivity: A computational study Matthew Quesne <i>Cardiff University, UK</i>
16:50	Understanding catalytic CO₂ and CO conversion into methanol using computational fluid dynamics Stylianos Kyrimis <i>University of Southampton, UK</i>
16:55	Discussion
17:35	Close of formal sessions



Thursday 8 April 2021 (GMT)

12:00	How to publish with impact RSC Publishing 30 minute presentation followed by Q&A
	Session 3: Accelerated mineralisation (Session Chair: Peter Styring)
13:00	Managed pathways for CO₂ mineralisation: analogy with nature and potential contribution to CCUS-led reduction targets Colin Hills <i>University of Greenwich, UK</i>
13:05	Mineral carbonation for serpentine mitigation in nickel processing: A step towards industrial carbon capture and storage Shaihroz Khan <i>University of Toronto, Canada</i>
13:10	CO₂ utilization in built environment via the PCO₂ swing carbonation of alkaline solid wastes with different mineralogy Alissa Park <i>Columbia University, USA</i>
13:15	Discussion
14:15	Break
	Session 4: Life cycle and upscaling (Session Chair: Andrea Ramirez and Katy Armstrong)
15:15	Renewable carbon feedstock for polymers: environmental benefits from synergistic use of biomass and CO₂ André Bardow <i>ETH Zurich, Switzerland</i>
15:20	Developing a triple helix approach for CO₂ utilisation assessment Stephen McCord <i>University of Sheffield, UK</i>
15:25	Curing time: a temporally explicit life cycle CO₂ accounting of mineralization, bioenergy, and CCS in the concrete sector Samantha Eleanor Tanzer <i>Delft University of Technology, Netherlands</i>
15:30	Reactive capture using metal looping: the effect of oxygen 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
	Session 5: Emerging technologies (Session Chair: Volker Sick)
13:00	Electrochemical carbon dioxide reduction in ionic liquids at high pressure Alex Cowan <i>University of Liverpool, UK</i>
13:05	Enhanced bio-production from CO₂ by microbial electrosynthesis (MES) with continuous operational mode Eileen Yu <i>Loughborough University, UK</i>
13:10	Discussion
13:50	Break
	Session 6: Emerging technologies (Session Chair: Michael North)
14:45	Integration of aprotic CO₂ reduction to oxalate at a Pb catalyst into a GDE flow cell configuration Max König <i>VITO, Belgium</i>
14:50	Hydrophobic thiol coatings to facilitate a triphasic interface for carbon dioxide reduction to ethylene at gas diffusion electrodes Samuel Perry <i>University of Southampton, UK</i>
14:55	Discussion
15:35	Concluding Remarks Lecture (Session Chair: Michael North) Walter Leitner <i>Max Planck Institute for Chemical Energy Conversion, and RWTH, Aachen University, Germany</i>
16:15	Claire Vallance <i>President, Faraday Division</i>
16:25	Acknowledgements
16:30	Close of meeting