novo nordisk foundation
Science Cluster

16-20 November 2026

Dream Reactions of CO_2:

Capture, Conversion and Beyond

Programme

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Monday 16 November 2026

17:00 - 17:15	Transportation to Favrholm Campus from hotels
17:15 - 17:30	Set up posters in poster rooms
17:30 - 18:45	**Informal Opening Dinner at Favrholm Campus**
18:45 - 19:00	**Official Opening by Henning Jørgensen**, Senior Scientific Manager of Biotechnology, Novo Nordisk Foundation, Denmark
19:00 - 20:45	**SESSION 1: ONE NIGHT IN 2040: DREAMING BOLDLY ABOUT CO_2**
	Welcome by the Chair of the Scientific Committee: **Jiwoong Lee**, Associate Professor, PI, The Novo Nordisk Foundation CO_2 Research Center (CORC), Denmark
	WORKSHOP: Future Thinking by Lena Tünkers, Futurist and Facilitator, Switzerland
	CHAIR: Jiwoong Lee, Associate Professor, PI, The Novo Nordisk Foundation CO_2 Research Center (CORC), Denmark
20:45 - 21:30	Drinks & Networking
20:45 - 22:30	Transportation from Favrholm Campus to hotels

Tuesday 17 November 2026

08:30	Transportation to Favrholm Campus from hotels
09:00 - 10:10	**SESSION 2: SOURCING CARBON**
	INVITED SPEAKER: Klaus Lackner, Professor, Arizona State University, United States *Carbon Waste Management*
	SHORT TALK: Agnese Zaghini, PhD Student, Technical University of Denmark, Denmark *Surface-active Carbonic Anhydrase as a probe for kinetic bottlenecks in CO_2 desorption*
	SHORT TALK: Yongqiang Wang, Postdoctoral Researcher, University of Cambridge, United Kingdom *Distinct humidity-responsive CO_2 adsorption behaviour of carbonates inside and outside nanopores*
	CHAIR: Susana Garcia, Full Professor, Heriot-Watt University, United Kingdom
10:10 - 10:40	Coffee break
10:40 - 11:45	**SESSION 3: SOURCING CARBON [CONTINUED]**
	INVITED SPEAKER: Mijndert van der Spek, Full Professor, Heriot-Watt University, United Kingdom *How well does the scientific community understand direct air capture performance?*
	INVITED SPEAKER: Greeshma Gadikota, Professor, Columbia University, USA *Advances in Reactive CO_2 Capture and Conversion for a Sustainable Energy and Resource Future*
	CHAIR: Susana Garcia, Full Professor, Heriot-Watt University, United Kingdom
11:45 - 12:45	Flagged Lunch
12:45 - 14:15	**SESSION 4: MANIPULATING CARBON**
	INVITED SPEAKER: Xin Tu, Professor, University of Liverpool, United Kingdom *Plasma Catalysis for CO_2 Conversion: Unlocking Sustainable Fuel Production Pathways*
	SHORT TALK: Thinles Dolkar, PhD Student, Indian Institute of Technology Bombay, India *Ligand-Assisted CO_2-to-Formate Conversion by a Bioinspired Non-Heme Iron Complex in Aqueous Media*
	SHORT TALK: Katharina Trapp, PhD Student, ETH Zurich, Switzerland *Towards rational electrolyte design: understanding metal-dependent anion interactions in the electrochemical CO_2 reduction*
	INVITED SPEAKER: Bingjun Xu, Full Professor, Peking University, China *Minority sites on Cu surfaces drive C-C coupling in electrochemical reduction of CO_2*
	CHAIR: Troels Skrydstrup, Professor, Aarhus University, Denmark
14:15 - 16:15	**POSTER SESSION 1**

16:15 - 17:45	**SESSION 5: MANIPULATING CARBON [CONTINUED]**
	INVITED SPEAKER: Victor Mougel, Professor, ETH Zurich, Switzerland *Managing protons across scales: Bio-inspired strategies for CO_2 electro reduction and beyond*
	SHORT TALK: Katsutaka Suzuki, PhD Student, Max Planck Institute for Terrestrial Microbiology, Germany *Understanding and reprogramming of reductive carboxylases via ultra-high throughput screening to enable novel CO_2 and C1 fixation strategies*
	SHORT TALK: Michael Resch, Group Leader, National Laboratory of the Rockies, United States *From Waste to Value: Electrochemical and Biological Upgrading of CO_2 into Fuels and Chemicals*
	INVITED SPEAKER: Charlotte Williams, Professor, University of Oxford, United Kingdom *Making Polymers from Carbon Dioxide*
	CHAIR: Matteo Cargnello, Associate Professor, Stanford University, United States
17:45 - 19:45	**Dinner**
19:45 - 21:30	**PI Pub / Editors' Corner**
21:00 - 22:30	Transportation from Favrholm Campus to hotels

Wednesday 18 November 2026

09:00	Transportation to Favrholm Campus from hotels
09:00 - 10:20	**SESSION 6: CREATING VALUE FOR CO_2**
	INVITED SPEAKER: Thomas Helmer Pedersen, Full Professor, Aalborg University, Denmark *Tentative: Development of Direct Air Capture Technologies from an Energy System Perspective*
	SHORT TALK: Catharina Wolff von Bülow, Socio-Economic and Behavioral Assessment Lead, Technical University of Denmark, Denmark *Consumer Willingness to Pay for CO_2-Based Products: Evidence from a Large-Scale Experiment with a Representative Danish Sample*
	CHAIR: Marta Victoria, Professor, Technical University of Denmark, Denmark
10:20 - 10:50	Break
10:50 - 12:10	**SESSION 7: CREATING VALUE FOR CO_2 [CONTINUED]**
	INVITED SPEAKER: Michael Reiter, Senior Researcher, ETH Zurich, Switzerland *A synthetic methylotrophic Escherichia coli as a chassis for bioproduction from methanol*
	SHORT TALK: Laurin Röder, PhD Student, Forschungszentrum Jülich, Germany *Upgrading of formate derived from CO_2 capture: utilizing an enzymatic cascade to achieve a portfolio of intermediates and products for fuels and chemicals*
	INVITED SPEAKER: Christopher Lawson, Assistant Professor, University of Toronto, Canada *Carbon-efficient waste upcycling: coupling gas fermentation and chain elongation with synthetic microbial consortia*
	CHAIR: Lars Angenent, Professor, University of Tübingen, Germany
12:10 - 12:30	Group photo
12:30 - 13:15	Lunch
13:15 - 14:45	**POSTER SESSION 2**
14:45 - 16:00	**SESSION 8: HOW POLICY CAN GUIDE OUR DREAMS**
	INVITED SPEAKER: Andrea Ramírez Ramírez, Full Professor, Delft University of Technology, Netherlands *From Green Tech to defossilised industry: A system Perspective*
	INVITED SPEAKER: Anders Hoffmann, Danish Ministry of Climate-, Energy- and Utilities, Denmark *Title: TBC*
	FIRESIDE CHAT: Who Turns CO_2 Dreams into Reality? Scientists, Systems and Policymakers in Conversation Facilitated by **Morten Busch**, Senior Lead Scientific Editor, Novo Nordisk Foundation, Denmark
	CHAIR: Jiwoong Lee, Associate Professor, PI, The Novo Nordisk Foundation CO_2 Research Center (CORC)
16:00 - 17:00	Transport to Social Outing
17:00 - 18:30	**Carlsberg City - Home of Carlsberg – a guided experience**
19:00 - 21:00	**Dinner @ Home of Carlsberg**
21:00 - 22:00	Transportation to Favrholm Campus and hotels

Thursday 19 November 2026

09:00	Transportation to Favrholm Campus from hotels
09:30 - 10:45	**SESSION 9: AI AND MACHINE LEARNING IN CARBON TECHNOLOGIES**
	INVITED SPEAKER: Tejs Vegge, Professor, Technical University of Denmark, Denmark *Workflow-Aware AI for Physically Constrained Chemical Space Exploration*
	SHORT TALK: Conor Cleeton, Postdoctoral Researcher, EPFL, Switzerland *From Molecules to Deployment: AI-Accelerated Discovery of Scalable Carbon Technologies*
	INVITED SPEAKER: Adrian Bunzel, Group Leader, Max Planck Institute for Terrestrial Microbiology, Germany *Computational design and directed evolution of photoenzymes for solar-energy conversion*
	CHAIR: Berend Smit, Full Professor, School of Basic Sciences at EPFL, Switzerland
10:45 - 11:15	Coffee break
11:15 - 12:30	**SESSION 10: CREATING VALUE FOR CO_2 [CONTINUED]**
	INVITED SPEAKER: Cornelia Welte, Professor, Radboud University, Netherlands *Capturing and transforming C1 compounds with uncultivated archaea*
	SHORT TALK: Mads Ujarak Sieborg, Postdoctoral Researcher, Aarhus University, Denmark *Bio-Integrated Carbon Capture & Conversion - At the interface of carbon capture chemistry and carbon utilizing microbiology*
	INVITED SPEAKER: Benjamin Woolston, Associate Professor, Northeastern University, United States *Combining aerobic and anaerobic metabolism in a single bioreactor for transformative biofuel production metrics from C1 feedstocks*
	CHAIR: Alfred Spormann, Professor, Aarhus University, Denmark / Stanford University, United Kingdom
12:30 - 13:30	Flagged Lunch
13:30 - 14:45	**SESSION 11: FROM INNOVATION TO IMPLEMENTATION**
	INVITED SPEAKER: Harry Atwater, Full Professor, California Institute of Technology, United States *Tandem and Reactive Capture Systems for CO_2 Conversion*
	SHORT TALK: Sara Vallejo Castano, Postdoctoral Researcher, Wetsus, European Centre of Excellence for Sustainable Water Technology, Netherlands *The wanders of the ConsenCUS pilot: an electrochemical post-combustion carbon capture technology demonstrated at high TRL across Europe*
	INVITED SPEAKER: Ralf Takors, Full Professor, University of Stuttgart, Germany *From Lab Findings to Large-Scale Predicitions in Gas Fermentation*
	CHAIR: Kim Daasbjerg, Professor, The Novo Nordisk Foundation CO_2 Research Center (CORC), Aarhus University, Denmark
14:45 - 15:15	Coffee break
15:15 - 16:10	**SESSION 12: FROM INNOVATION TO IMPLEMENTATION [CONTINUED]**
	SHORT TALK: Alisson Aparecido Vitoriano Julio, Postdoctoral Researcher, Aalborg University, Denmark *Shaping Carbon Management Strategies through Energy Planning across National and Local Scales*
	INVITED SPEAKER: George Shimizu, Professor, Existent Sorbents, Canada *Development of MOF Materials and Processes for Decarbonization*
	CHAIR: Nina Lock, Associate Professor, Aarhus University, Denmark
16:10 - 16:30	**Closing remarks by Jiwoong Lee**, Associate Professor, PI and **Lasse Rosendahl**, Professor, The Novo Nordisk Foundation CO_2 Research Center (CORC), Denmark
16:30 - 19:00	Transportation from Favrholm Campus to hotels
19:15 - 19:40	**Welcome drinks at Favrholm Campus**
19:45 - 02:00	**Dinner & party**
22:30 - 02:00	Transportation from Favrholm Campus to hotels

Friday 20 November 2026

09:00	Check-out from hotels
09:00	Bus departure from hotels → Favrholm Campus → City Centre → Copenhagen Airport