

Programme

100% Climate Neutrality Conference 2023

Day 1 - Monday, 25th September 2023

08:30 - 09:00 **Registration & coffee**

09:00 - 09:40 **Welcome Addresses, Concert Hall**

- Introduction – Horst-Günter Rubahn, Head of Mads Clausen Institute and campus Sønderborg
 - Jens Ringsmose, Rector of the University of Southern Denmark
 - Stefan Kleinschmidt, Sønderborg Municipality
 - Jørgen Mads Clausen, Danfoss A/S
 - Fabian Geyer, Mayor of Flensburg Municipality
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09:40 - 10:40 **Plenary Talks, Concert Hall**

- Introduction to plenary talks
- Sebastian Mernild, SDU Climate Cluster, State of the Climate
- Alexander Brem, University of Stuttgart, Institute for Entrepreneurship and Innovation, *Technology Innovation in times of climate change*

Moderator: Horst-Günter Rubahn, Head of Mads Clausen Institute and campus Sønderborg

10:40 - 11:00 **Coffee Break**

11:00 - 12:30 **Podium discussion, Concert Hall**

Cross border climate protection

- Nelly Waldeck, Member of the Schleswig-Holstein parliament for 'Die Grünen'
- Christoph Jansen, President, Flensburg University of Applied Sciences
- Jennifer Baltzer, Wilfrid Laurier University, Canada
- Maike Lambarth, CEO & co-founder, Cyclize

Moderator: Horst-Günter Rubahn, Head of Mads Clausen Institute and campus Sønderborg

12:30 - 13:30 **Lunch**

13:30 - 15:00 **Session 1: Presentation of cross-disciplinary centers of excellence within SDUs Climate Cluster, Concert Hall**

- Cintia O. Quintana, Department of Biology, SDU, AquaNBS, *Centre of Aquatic Nature-based solutions for climate change adaptation and mitigation*
- Morten Madsen, CAPE, SDU, *SOLEN: Elite Centre on Solar Energy Conversion and Storage*
- Christina Viskum Lytken Larsen, Chair of SDU Arctic and Head of Research for Centre for Public Health in Greenland, National Institute of Public Health, SDU, *Strengthening interdisciplinary collaboration and community-based solutions through SDU Arctic*

Moderator: Jacek Fiutowski, SDU NanoSyd

15:00 - 15:30 **Coffee Break**

15:30 - 15:45 **Hand over of Behavioural Change Challenge Award, Concert Hall**

15:45 - 17:15

Session 2: The Role of Entrepreneurship for Transformation, M304-M307

Company presentation by Cyclize & Workshop by EU Interreg 6A project ARTEMIS

The workshop facilitators will introduce and explain questions related to the topic and facilitate the dialogue applying the World Café method. The World Café method ensures an open conversation and a collective examination of key questions related to our overall topic and enables a reflective approach. The introduction by the facilitators will be followed by two World Café rounds in groups. Both rounds and entire workshop will be rounded off by a wrap up.

Alexander Brem, University of Stuttgart, Institute for Entrepreneurship and Innovation
Silke Tegtmeier, SDU Department of Technology and Innovation, EU Interreg 6A ARTEMIS

15:45 - 18:30

Poster session/Exhibition

18:30 - 21:00

Conference Dinner & Discussion

Hotel ALSIK

Day 2 - Tuesday, 26th September 2023

08:30 - 09:00 **Registration & Coffee**

09:00 - 10:00 **Session 3: Active removal of CO₂: Terrestrial negative emission technologies, Concert Hall**

- Christiana Amalie Dietzen, KU, Globe Institute, *Enhanced Weathering of Glacial Rock Flour for Carbon Sequestration and Crop Fertilization (online)*
- Daniel McCarthy, Kiel University, *Marine Carbon-Dioxide-Removal: Implementation of Sustainable Development Goals 13 & 14 and States' Legal Obligations*
- Shannon Sterling, Department of Earth and Environmental Sciences, Dalhousie University, Canada, *River-based CO₂ removal (online)*

Moderator: Carolin Löscher, SDU, Nordcee

10:00 - 10:30 **Coffee Break**

10:30 - 12:00 **Session 4: Immediate effects of climate change and how to cope with it, Concert Hall**

- Jennifer Baltzer, Wilfrid Laurier University, Canada, *Climate change effects on Arctic ecosystems and its global consequences*
- Elvis Genbo Xu, Department of Biology, University of Southern Denmark, *Tiny Troublemakers: Understanding Micro- and Nanoplastic Pollution under Environmental Stress - Exploring Mitigation Solutions*
- Roana de Oliveira Hansen, SDU NanoSyd, Mads Clausen Institute, *Technologies for sustainable food consumption*
- Sebastian Primpke, Alfred-Wegener-Institute Biologische Anstalt Helgoland, *Challenges in the analysis of Micro- and Nanoplastics in the environment*

Moderator: Jacek Fiutowski, SDU NanoSyd

12:00 - 13:00 **Lunch**

13:00 - 14:30 **Session 5: Behavioral change: what everybody can do, M304-M307**

Kerstin Fischer & team, Department of Media, Design, Learning and Cognition, SDU: Behavior Change for a Sustainable Future: Projects from the region

The conference session will provide an overview of current approaches to behavior change and showcase several different projects that student teams have carried out with local stakeholders over the course of the summer.

13:00 - 14:30 **Session 6: Technological solutions: what the border region can do, Concert Hall**

- William Greenbank, Centre for Industrial Electronics, SDU, *What happens between the wind turbine and the Tesla: how capacitors are critical to achieving 100% climate neutrality*
- Ji Wang, Centre for Industrial Mechanics, SDU, *Decarbonizing cooling and heating through transcritical CO₂ heat pumps*
- Wiktoria Vith, Hochschule Flensburg & Søren Gert Larsen, PureteQ, *Carbon capture from exhaust gas with parallel hydrogen production*
- Ralf Tapken, WTSH, *E-Mobility in Schleswig-Holstein – Status quo & perspectives*

Moderator: Thomas Ebel, Head of SDU Centre for Industrial Electronics

14:30 - 14:45 **Conclusion and outlook 2024, Concert Hall**

14:45 - 17:00 **Open discussions in AlSION's Green Corner and beyond, SDU Library at Campus Sønderborg**
