

DTU Chemical Engineering



1 April 2009

Invitation - Combustion, Carbon Capture and Storage – 28 May 2009

You are hereby invited to participate in the workshop 'Combustion, Carbon Capture and Storage – CCCS' organized by DTU Chemical Engineering 28 May 2009. The goal is by bringing together leading national and international experts to identify the main political, financial and technological challenges and to formulate recommendations to the future development.

About 100 researchers, representatives from industry and governmental organizations, politicians and NGOs are invited to the workshop. We invite you to contribute to the important dialogue on future technologies regarding power production, industrial processes and marine transport.

There is significant focus on the reduction of the emission of greenhouse gases, especially CO₂. The investments needed and the matter of how fast the CO₂ emission can be reduced depends on the progress in research, on the development of new technologies and on whether underground storage of CO₂ is politically acceptable.

The workshop raises the questions: Which technological solutions exist today - or can potentially be developed - and what are the limitations?

The workshop provides an overview of the technical solutions to reduce the emissions from power production, energy intensive industrial processes and marine transport.

We hope you will participate actively in the panel discussion and ask questions within the topics:

- Basic technology research needs
- Technology development and transfer
- Political instruments
- Economic and financial challenges

The presentations and the discussions at the workshop will form the basis for a final report identifying the major technical, political and financial challenges to secure a fast decrease in the world's net emission of CO₂!

I kindly ask you to confirm your participation before May 4, 2009.

Best regards

A handwritten signature in black ink that reads 'Kim Dam-Johansen'.

Kim Dam-Johansen
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Preliminary program

08:30 – 09:00	Registration
09:10 – 12:00	Session 1 Changes and challenges Chairman: Professor <i>Kim Dam-Johansen</i> , Technical University of Denmark
09:10 – 09:40	Strategies and recent advances on combustion, carbon capture and storage in Europe Professor <i>Klaus Hein</i> , University of Stuttgart
09:40 – 10:10	Strategies and Recent advances on combustion, carbon capture and storage in China Vicepresident <i>Jinghai Li</i> – Chinese Academy of Sciences
10:10 – 10:40	Strategies and Recent advances on combustion, carbon capture and storage in USA Principal Deputy Assistant Secretary <i>Victor Der</i> , Fossil fuel energy U.S. Department of Energy
10:40 – 11:00	Break
11:00 – 11:30	Greenpeace perspectives on carbon capture and storage Head of section <i>Emily Rochon</i> , Greenpeace International
11:30 – 12:00	Technology overview – CCS and marine transportation
12:00 – 13:00	Lunch
13:00 – 14:30	Session 2a Technological challenges and opportunities for combustion and carbon capture Chairman: Professor <i>Anker Degn Jensen</i> , Technical University of Denmark
13:00 – 13:30	CO ₂ reduction by efficiency improvement and use of CO ₂ neutral fuels Head of Technology <i>Rudolph Blum</i> , DONG Energy
13.30 – 14:00	Future CO ₂ capture technologies (Chemical looping combustion, gasification, oxyfuel) Vice president R&D <i>Lars Strömberg</i> , Vattenfall
14:00 – 14:30	Post-combustion CO ₂ removal Principal Researcher <i>Gelein de Koeijer</i> , StatoilHydro
14:30 – 15:00	Break
15:00 – 15:30	An industrial perspective on CO ₂ Senior vice president <i>Erik Birch</i> , Technical Division, FLSmidth A/S
15:30 – 16:00	CO ₂ emission reduction for marine transportation Vice president R&D <i>Søren H. Jensen</i> , Man Diesel
16:00 – 16:30	Break

13:00 – 14:30	Session 2b Geological storage and enhanced oil recovery Chairman: Professor <i>Erling H. Stenby</i> , Technical University of Denmark
13:00 – 13:30	The CCS demo Denmark project Chief geologist <i>Niels Peter Christensen</i> , Vattenfall Nordic
13.30 – 14:00	Technology challenges of long term CO ₂ storage Vice President Carbon Services <i>Hanspeter Rohner</i> , Schlumberger
14:00 – 14:30	CO ₂ for EOR: Field Experience and Future Perspectives Subsurface Team Lead <i>Ken Kosco</i> , Hess Denmark
14:30 – 15:00	Break
15:00 – 15:30	The future perspectives for CO ₂ storage in Denmark Deputy Director General <i>Anne Højer Simonsen</i> , Danish Energy Agency, Ministry of Climate and Energy
15:30 – 16:00	Technological challenges for CO ₂ - EOR Technical Director Carbon and Climate <i>Nigel Jenvey</i> , Maersk Oil
16:00 – 16:30	Break
16:30 – 18:00	Panel discussion Chairman: Senior Advisor <i>Jørgen Henningsen</i> , European Policy Centre
	Closure by Professor <i>Kim Dam-Johansen</i> , Technical University of Denmark
18:00 – 20:00	Workshop dinner

Information

Date and location

The workshop takes place 28 May 2009 at DTU Campus, 2800 Lyngby, building 101 room 1 and 2.

Working Language

The working language is English and no translation will be provided.

Workshop form and outcome

The presentations by researchers, industry, governmental representatives and NGOs together with the discussions at the workshop will form the basis for a final report prepared by DTU Chemical Engineering. The report will be used as input for a final high-level conference on 17 September 2009, where DTU will present a summary of climate change technology solutions and viewpoints.

Registration

The workshop is free of charge including workshop lunch and dinner.
Please confirm your participation to cccs@kt.dtu.dk no later than 4 May 2009.

Responsible

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Accommodation:

In Lyngby, close to DTU: www.scandichotels.dk/eremitage