

The  
High Temperature  
Corrosion Center

# HTC Conference and Workshop 2023

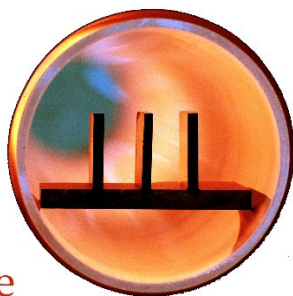
Gothenburg May 24<sup>th</sup> - May 25<sup>th</sup>



# HTC Conference and Workshop 2023

24 and 25 May

at Scandic Centralen, Göteborg



The  
High Temperature  
Corrosion Center

# HTC Conference and Workshop 2023

Gothenburg May 24<sup>th</sup> - May 25<sup>th</sup>

## Programme Conference

**May 24<sup>th</sup>**

09.30 Coffee and Registration

10.00 – 10.15

**Opening and welcome**

*Jan-Erik Svensson, Jesper Liske & Tommy Sand*

**Session: CO<sub>2</sub> NEUTRAL EMISSIONS-MORE EFFICIENT GENERATION OF HEAT AND POWER**

Chairperson: *Johanna Nockert, Kanthal*

10.15-10.40

More efficient generation of heat and power - Industrial perspective material challenges

*Presentation by Fredrik Lind, Göteborg Energi*

10.40– 11.00

New materials and coatings for improving electricity efficiency in biomass-fired boilers (EU project: Belenus)

*Presentation by Vicent Ssentenza and Torbjörn Jonsson, Chalmers*

11.00 – 11.20

More efficient generation of heat and power - Corrosion challenges - Field research

*Presentation by Rikard Norling, RISE*

11.20 – 11.40

Corrosion challenges of water walls and fluidized bed heat exchangers - Field research

*Presentation by Maria Dolores Paz Olausson, Chalmers*

11.40 – 12.00

Corrosion challenges in the presence of PbCl<sub>2</sub> - Laboratory research

*Presentation by Hampus Lindmark, Chalmers*

**12.00 Lunch break**

## **Session: CO<sub>2</sub> NEGATIVE EMISSIONS – POSSIBILITIES AND CHALLENGES**

*Chairperson: Anna Jonasson, Navirum Energi*

13.00 – 13.25

Large-scale BECCS facilities in Stockholm

*Presentation by Erik Dahlén, Stockholm Exergi*

13.25 – 13.50

Opportunities within chemical looping combustion (CLC)

*Presentation by Robin Faust, Chalmers*

## **Session: THE HYDROGEN SOCIETY AND ELECTRIFICATION**

*Chairperson: Lars-Gunnar Johansson, Chalmers*

13.50 – 14.15

Role of renewable hydrogen in the decarbonization path of our industries:

What should we look after?

*Presentation by Carlos Bernuy-Lopez, Ramboll*

14.15 – 14.40

Solid Oxide Fuel Cells and Solid Oxide Electrolysis Cells - Opportunities

*Presentation by Subhasish Mukerjee, Ceres Power*

### **14.40-15.10 Coffee**

15.10 – 15.30

Material development for Solid Oxide Fuel Cells and Solid Oxide Electrolysis Cells

*Presentation by Jörgen Westlinder, Alleima*

15.30 – 15.50

Solid Oxide Fuel Cells and Solid Oxide Electrolysis Cells - Material challenges -  
Laboratory research

*Presentation by Mareddy Reddy, Chalmers*

15.50 – 16.10

Use of hydrogen in high temperature processes

*Presentation by Andrea Olivas, Swerim*

16.10 – 16.35

Large scale Electrification; Opportunities and material challenges

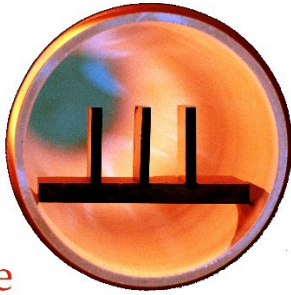
*Presentation by Jesper Ejenstam, Kanthal*

16.35 – 17.00

Electrification; Opportunities and material challenges – Laboratory research

*Presentation by Tommy Sand, Alleima*

**18:00 “Skärgårdskryss” Archipelago Cruise**



The  
High Temperature  
Corrosion Center

# HTC Conference and Workshop 2023

Gothenburg May 24<sup>th</sup> - May 25<sup>th</sup>

## Programme Workshop

25<sup>th</sup> of May

**09.00 – 09.15** Introduction Workshops

*Tommy Sand, Jan-Erik Svensson & Jesper Liske*

**9.15 – 11.15** Workshop's

- **Workshop A: THE HYDROGEN SOCIETY**
- **Workshop B: CO<sub>2</sub> NEGATIVE EMISSIONS**

**11.15 – 11.45** Presentations of the road forward from each workgroup

**11.45** Summary of the Conference

**12.00** Lunch