



The
High Temperature
Corrosion Center

HTC Conference 2026

Gothenburg August 25th - August 26th

HTC Conference 2026

HIGH TEMPERATURE CORROSION
IN ENERGY SYSTEMS



KARLATORNET
GÖTEBORG

SAVE THE DATE
25–26 AUGUST 2026
GOTHENBURG, SWEDEN

The **HTC Conference 2026** brings together researchers, engineers, and industry experts working with high-temperature corrosion in energy systems.

TOPICS WILL INCLUDE:



Biomass and
waste-fired power
systems



Materials
performance in
harsh environments



Corrosion
mechanisms
and modelling



Mitigation strategies
and advanced
materials

Further information and registration will follow.

High Temperature
Corrosion Centre (HTC)

DEPARTMENT OF CHEMISTRY AND CHEMICAL ENGINEERING
CHALMERS UNIVERSITY OF TECHNOLOGY



CHALMERS
UNIVERSITY OF TECHNOLOGY

www.htc.chalmers.se



HTC Conference 2026

Gothenburg August 25th - 26th

Programme Conference

August 25th

09.30 Coffee and Registration

10.00 – 10.15

Opening and welcome

Jan-Erik Svensson & Jesper Liske

Session: THE HYDROGEN SOCIETY AND ELECTRIFICATION

Chairperson: Johanna Nockert

10.15 – 10.45

District Heating: Unlocking Potential, Confronting the Challenges

Presentation by Fredrik Lind, Eon

10.45 – 11.15

CMAL and Large scale infrastructures

Presentation by Magnus Hörnqvist Colliander and Michal Strach, Chalmers

11.15 – 11.35

Large scale Electrification; Opportunities and material challenges

Presentation by Thomas Helander, Kanthal

11.35 – 11.55

Hydrogen in automotive applications

Presentation by Niklas Rosang, Volvo

Lunch 12.00-13.00

Session: THE HYDROGEN SOCIETY AND ELECTRIFICATION

Chairperson: Lars-Gunnar Johansson, Chalmers

13.00 – 13.20

Challenges and opportunities for low-cost enhancement of robustness to corrosion of the stainless-steel components of a Ceres Power Endura™ SOC stack'

Presentation by Robert Leah, Ceres

13.20 – 13.40

Industrializing the supply chain for pre-coated interconnects

Presentation by Niklas Norrby, Alleima

13.40 – 14.00

Corrosion properties of FSS in SOC fuel side environment at 600 °C:

The effect of surface conditions

Presentation by Thorbjørn Krogsgaard, Chalmers

14.00 - 14.10 Leg stretcher

14.10 -14.30

The effect of fuel gas composition on the corrosion of ferritic stainless steel exposed under dual atmosphere condition

Presentation by Shrikanth Syamprasad Chalmers

14.30 - 14.50

Mechanical Characterisation and Environmental Influences on Mechanical Performance

Presentation by Mattias Calmunger, LIU

Coffee 14.50 - 15.20

Session: THE HYDROGEN SOCIETY AND ELECTRIFICATION

Chairperson: Jan Froitzheim, Chalmers

15.20-15.40

High Temperature Corrosion of Chromia and Alumina Forming Alloys in LiF

Presentation by Aida Nikbakht, Chalmers

15.40-16.00

New ideas on breakaway oxidation of stainless steels in H₂/H₂O environment - The case of 304L at 600 °C

Presentation by Lars-Gunnar Johansson, Chalmers

16.00-16.20

Barrier Coatings for Hydrogen Technologies: Mitigating Hydrogen-Induced Degradation under Electrolyser-Relevant Conditions

Presentation by Anna Carlsson, Terra barrier

19.00 Dinner at Restaurang River on the Pier

Programme Conference

August 26th

Session: CO₂ NEGATIVE AND NEUTRAL EMISSIONS - MORE EFFICIENT GENERATION OF HEAT AND POWER

Chairperson: Lars-Gunnar Johansson, Chalmers

9.00 – 9.30

The Geopolitics of Energy Technology

Presentation by Tomas Käberger, Chalmers

9.30 – 9.50

ACLOUD - Advancing chemical-looping combustion of domestic fuels

Presentation by Tobias Mattison & Jesper Liske, Chalmers

9.50 – 10.10

Cold-end deposit formation and corrosion mechanisms in biomass- and waste-fired industrial boilers

Presentation by Emil Vainio, Åbo Akademi

10.20 – 10.40 Coffee

10.40 – 11.00

The serendipitous formation of chromia in the internal oxidation front of AISI 347H at 700 °C in the presence of water vapor, and its implications for long term corrosion behavior.

Presentation by Hooman Karimi Abadeh, Chalmers

11.00 – 11.20

The potential of combining AI and microstructure analysis for kinetic corrosion modelling

Presentation by Hampus Lindmark, Chalmers

11.20 – 11.40

From superheater tubes to oxygen carriers: Enabling high-resolution and statistically relevant oxide analysis through BIB-SEM methodology

Presentation by Maria Dolores Paz Olausson, Chalmers

11.45 End of Conference

Jesper Liske & Jan-Erik Svensson

12.00 Lunch