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Department for
Industrial Furnaces
and Heat Engineering



**Department for Industrial Furnaces
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**THERM
PROCESS**



The Bright World of Metals

Düsseldorf/Germany
Hall 9 D74
Monday 12th June 2023

ecoMetals Forum

Green thermoprocess
technology



eco Metals
SUSTAINABLE PROCESS SOLUTIONS



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Düsseldorf



In Kooperation mit
In cooperation with

Metallurgy



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Düsseldorf/Germany, Hall 9 D74
Monday 12th June 2023

ecoMetals-Forum at THERMPROCESS

In December 2020, the European Council decided to raise the EU's climate ambition on the way to EU greenhouse gas neutrality by 2050.

The “Energy Transition (Energiewende)” from the conventional fossil-nuclear system to renewable energy supply for the industrial manufacturing industry is a step change requiring innovations, high investments and continuous improvement in a short period of time.

Thermal processes with their comparatively high energy consumption play a key role in this transformation.

The scientific, political, and regulatory aspects of this mega topic for the thermoprocessing industry will be highlighted.

Participation in the symposium is free of charge for trade show visitors. This makes it possible to make an on-site decision at short notice in order to find out about the latest developments in research and development for industrial furnaces and thermoprocess technologies.

VDMA Metallurgy is the partner of THERMPROCESS. Together with the Research Association for Industrial Furnace Engineering FOGI, it organizes the Ecometals Forum and the Thermoprocess Forum 2023.

The event will be moderated by the “Department for Industrial Furnaces and Heat Engineering (IOB) at RWTH Aachen University”.

Up-to-date information on the event can be found at www.thermprocess.de or at <https://www.vdma.org/metallurgy>.



<https://www.vdma.org/metallurgy>
www.tbwom.de/ecoMetals

Düsseldorf/Germany, Hall 9 D74
Monday 12th June 2023

Green thermoprocess technology

Moderation
Christian Schwotzer,
Department for Industrial
Furnaces and Heat Engineering,
RWTH Aachen University

11:25 – 11:30 **Welcome**
Herbert Pfeifer, Department for
Industrial Furnaces and Heat
Engineering, RWTH Aachen
University

Session 1: **Thermoprocess technology
and energy transition –
Potential and challenges**

11:30 – 12:00 **Future energy markets and
supply – The big change?**
Matthias Zelinger, VDMA Head of
Climate&Energy

12:00 – 12:30 **CO₂-neutral process heat
generation – The potential and
challenges in Germany**
Matthias Rehfeldt, Fraunhofer
Institute for Systems and
Innovation Research ISI

12:30 – 13:00 **Carbon Footprint –
Significance and challenges for
thermoprocess technology**
Carsten Gondorf, Department
for Industrial Furnaces and Heat
Engineering, RWTH Aachen
University

13:00 – 14:00 **Lunch break**

Session 2: **The potential of research
programs and networks as
enablers for new technologies**

14:00 – 14:30 **Research Funding and Energy
Research Networks**
René Gail, Project Management
Jülich (PtJ)



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14:30 – 15:00 **Joint research for sustainable industrial furnace and thermoprocess technology**
Joachim G. Wüning,
FOGI - Research Association for Industrial Furnace Engineering

15:00 – 15:30 **Cluster Decarbonisation in Industries (CDI) – One-Stop-Shop for a decarbonised industrial world**
Nadine Barthel,
Cluster Decarbonisation in Industries (CDI)

15:30 – 16:00 **Coffee break**

Session 3: **Examples from research and development for green thermoprocess technology**

16:00 – 16:30 **Electric heating – The potential and challenges for defossilization of thermoprocess technology**
Egbert Baake, Institute of Electrotechnology, Leibniz University Hannover

16:30 – 17:00 **Hydrogen in thermoprocess technology – Lead technology project TTgoesH2**
Hartmut Krause, TU Bergakademie Freiberg

17:00 – 17:30 **Hydrogen in thermoprocess technology – Horizon Europe project HyInHeat**
Nico Schmitz, Department for Industrial Furnaces and Heat Engineering, RWTH Aachen University

from 17:30 **Get together at the FOGI booth 9C42**

