

## dissHEAT-Workshop / ESTAD 2023

### Workshop for future research roadmap in industrial heating

organised by EU-Project dissHEAT

Venue: 6-th ESTAD 12 - 16 June 2023, Congress Center Düsseldorf, Germany, Room 6

Date June 15<sup>th</sup>, 2023, from 9.00 AM to 1.00 PM

- 9:00 AM – Welcome and general dissHEAT-overview, Andreas Johnsson
- 9:25 AM – 5 dissHEAT topics presentations:  
Findings, analysis and outlook
  - Heating and burner technology, Oliver Hatzfeld
  - Modelling and control (level 2) of entire furnaces, Filippo Avellino
  - Sensors and control (level 1), standards and regulations, Nico Schmitz
  - Materials in the furnace and product quality, Hugo Uijtdebroeks
  - Heat transfer, heat recovery, productivity and economy, Andreas Johnsson and Gustav Häggström
- 10:00 AM – dissHEAT draft roadmap for future research, Hugo Uijtdebroeks
- 10:10 AM – Pause + coffee
- 10:25 AM - Guest presentations:  
current questions in research on industrial heating and outlook
  - “Sustainable blast furnace gas firing in reheating furnaces”, Victor Cuervo (ArcelorMittal)
  - “Upcoming requirements and needs for heating from a Scandinavian perspective”, Jonas Engdahl (senior expert at SSAB and chairman of the Swedish iron and steelmaking association Jernkontoret’s focus area TO51- Energy and furnace technology)
  - “Sustainable heating technologies for today and tomorrows metal industry”, Enrico Malfa (Tenova)
- 11:25 AM – Panel discussion:  
Panel list: **Victor Cuervo, Jonas Engdahl, Enrico Malfa and Thomas Echterhof** (IOB, RWTH-Aachen)  
Topics:
  - future research
  - research gaps in industrial heating
  - questions from dissHEAT and audience
- 12:30 AM to 1:00 PM – Internal summary and wrap up, Hugo Uijtdebroeks