











Introduction to the Dissheat project and webinar series.

Dissemination of the heating technology research results for emission minimization and process optimization towards todays fossil-free heating agenda - dissHEAT (G.A. 101057930)

Andreas Johnsson (Coordinator), Swerim

Dissheat: Dissemination project under RFCS.















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Review and analysis of EU (RFCS&HEU) and intl´ literature over last 25 yrs

Todays BAT and state of the Art

Road map for future research

22 RFCS projects
13 HEU projects
Publications
Selected, analyzed
and evaluated















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Dissheat.eu

- Project overview
- Reports
- Research findings & relevant applications with KPI
- SoA report with BAT
- Low CO₂ technologies
- Periodic reports
- Current practices
- Market needs
- Roadmap
- Abstracts
- Events

Webinar series

1 per main topic

- Heating and burner technology
- Modeling and control of entire furnaces
- Sensors and control, standards, regulations
- Materials in the furnace and product quality
- Heat transfer, heat recovery, productivity, economy

ESTAD Workshop on roadmap

- Visit https://metecestad2023.com/
- •Technical presentations per topic
- Guest speakers
- Panel discussion

Social media

- Homepages
- LinkedIn
- Twitter
- Recorded webinars















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ESTAD event on roadmap

















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- Register for the workshop!
- To be held 15/6 9-13
- Only 120 seats, it is full already but may be cancellations.

(9:00 AM

Welcome and general dissHEAT-overview Andreas Johnsson

() 9:25 AM

5 dissHEAT topics presentations: Findings, analysis and outlook

- Oliver Hatzfeld: Heating and burner technology
- Filippo Avellino: Modelling and control (level 2) of entire furnaces
- Nico Schmitz: Sensors and control (level 1), standards, regulations
- Hugo Uijtdebroeks: Materials in the furnace and product quality
- Andreas Johnsson, Gustav Häggström: Heat transfer, heat recovery, productivity, economy

(10:00 AM)

Hugo Uijtdebroeks: dissHEAT draft roadmap for future research

① 10:10 AM

Coffee break

(10:25 AM

3 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)

① 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

Hugo Uijtdebroeks: Internal summary and wrap up

Todays webinar and webinar series





Heating and burner technology, May 2, 2:00-3:30 pm

Modeling and control of entire furnaces, May 9, 2:00-3:30 pm



Materials in the furnace and product quality, May 23, 2:00-4:00pm



Heat transfer, heat recovery, productivity, economy, May 30, 2:00-3:20 pm

Sensors and control, standards, regulations, June 1, 2:00-3:20pm

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Time

2.00 pm

2.05 pm

Speaker

Andreas Johnson

Martin Wicker





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2.25 pm	Elsa Busson	IOB RWTH	Technical development over the last 20 years and new technologies
2.45 pm	Nico Schmitz	IOB RWTH	New concepts for NOx emission measurement & limits
3.05 pm	Nico Schmitz	IOB RWTH	Q & A
3.15 pm	Nico Schmitz	IOB RWTH	Event close

Speaker Organization

Swerim

Dungs IOD DW/TH



Presentation

Welcome and Introduction Heating System Design according to EN 746-2 & ISO 13577-2

















Thank you for the attention!

Stay informed

www.dissheat.eu