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13th European Electric Steelmaking Conference

3–6 June 2024, Essen, Germany
Philharmonie Essen Conference Center

Chairman: Prof. Dr.-Ing. Klaus Krüger



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Call for Paper

Chairman's Invitation

With the transformation towards CO₂-neutral steel production, the European steel industry is facing its biggest challenge in decades. The general technical solution was found with hydrogen-based direct reduction in combination with electric steelmaking. However, there are a number of critical issues: Scaling-up, iron ore and scrap quality, availability of green electricity and green hydrogen, development of green steel markets, to name just a few. Nevertheless, this mammoth task also represents a unique opportunity: Steel companies can position themselves as pioneers for the entire industry and society presenting themselves as sustainable and meaningful employers for young talents. In this situation, the 13th EEC comes at exactly the right time.

I am therefore very pleased that the Steel Institute VDEh, as the conference organiser, has offered me the chairmanship.

The EAF and the related OBF – often also called smelter – are central units in the future CO₂-neutral steel production: They will be the smelting units for the hydrogen-based direct reduced iron. This important role will naturally become an important part of the EEC. But of course, we will also cover the traditional topics: New technologies and processes, energy efficiency, modelling and ladle furnace technology.

With these contents, the EEC has an important role to play in the transformation. Conferences are a hub for communication, ideas and know-how. People from all over the world come together to exchange know-how and discuss. In this way we can make the EEC to an important component of the transformation.

With a combination of proven and new topics, factory tours and the accompanying trade exhibition, we will set up a conference programme that will certainly inspire visitors. Join us and become part of this programme with your presentation!

Klaus Krüger

Scientific Program Committee

Prof. Dr.-Ing. Detmar Arlt, Hochschule Düsseldorf
Dr.-Ing. Thomas Echterhof, RWTH Aachen
Andreas Christian Horn, Stahlwerk Thüringen GmbH
Ansgar Jüchter, ArcelorMittal Hamburg GmbH
Dr.-Ing. Bernd Kleimt, VDEh-Betriebsforschungsinstitut GmbH
Prof. Dr.-Ing. Klaus Krüger, Ingenieurbüro Klaus Krüger
Peter Schmieding, Steel Institute VDEh
Dr.-Ing. André van Bennekom, Max Aicher GmbH & Co. KG

Scope and Topics

The general aim of this 13th European Electric Steelmaking Conference is to provide a forum at which steel producers, plant manufacturers and suppliers as well as research institutes and universities come together to discuss the newest technologies and developments in the field of electric steelmaking.

The conference will have the following technology-based topics:

- **Electric Arc Furnace Technologies**
- **Electric Arc Furnace Process**
- **Melting of DRI/HBI in Electric Arc Furnaces**
- **New Furnace Types for DRI/HBI Melting**
- **Power Grid Requirements and Solutions**
- **Efficiency Optimization**
- **Ladle Furnace Process and Technologies**
- **Green Steelmaking Strategies**

Submission of Papers

All paper proposals must be submitted online. Please visit: <https://eec-2024.com> and go to the Call for Papers section. There you will find an easy to use online submission form. Your abstract can be a maximum of 300 words. Please note that papers will only be accepted online.

Language

The conference language is English.

Deadline

Please submit your abstracts by **1 December 2023** at the very latest. All abstracts will be refereed by a Scientific Program Committee (SPC). In the case of too many submissions, abstracts of equal quality will be accepted on a first come, first serve basis.

Paper Proposal Submission

To submit an abstract, please proceed as follows:

- 1) Write your abstract (max. 300 words).
- 2) Submit your abstract online at: <https://eec-2024.com>
> Call for Papers section (please completely fill out all fields).
- 3) Papers must be submitted in English.
- 4) All papers must focus on newest technologies and best practices.

Important Dates

1 December 2023 Abstract submission deadline

December 2023 Scientific Program Committee will evaluate submitted abstracts

15 January 2024 Paper proposers will be informed about decision of the Scientific Program Committee. Delivery of authors guidelines.

28 April 2024 Full paper submission deadline.

24 May 2024 PowerPoint presentation slides deadline

3 – 6 June 2024 13th European Electric Steelmaking

Venue

Philharmonie Essen

The Philharmonie Essen is an impressive convention centre with stunning architecture and outstanding acoustics, located in the city centre of Essen, Germany.

Accessibility by train

20 min. from Düsseldorf airport to Essen train station. The Philharmonie is 700 m from the station.

Destination addresses for the navigation system

Underground car park:
Huyssenallee 53, 45128 Essen, Germany

Underground car park Philharmonie:
Huyssenallee 17, 45128 Essen

Compliance Rules

The Steel Institute VDEh and all cooperating organizations are committed to adhering strictly to all applicable antitrust laws. Within the context of the EEC 2023 it is strictly prohibited to discuss competitively sensitive subjects such as price-fixing agreements or agreements on quantities.



Venue

Philharmonie Essen
Huyssenallee 53
45128 Essen

Host

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