

## SUBMISSION OF PAPERS

All paper proposals must be submitted online. Please visit: [www.metec-estad2019.com](http://www.metec-estad2019.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 30 September 2018 at the very latest. All abstracts will be refereed by the scientific international experts. 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: [www.metec-estad2019.com](http://www.metec-estad2019.com)  
> Call for Papers section (please completely fill out all fields).
- 3) Papers must be submitted in English.
- 4) All papers must focus on best practices.

## IMPORTANT DATES

30 September 2018 Abstract submission deadline.

October 2018 Scientific international experts will evaluate submitted abstracts.

30 November 2018 Paper proposers will be informed about decision of the Scientific international experts. Delivery of authors guidelines.

25 February 2019 Full paper submission deadline.

30 May 2019 PowerPoint presentation slides deadline.

24 - 29 June 2019 METEC & 4<sup>th</sup> ESTAD 2019

[www.metec-estad2019.com](http://www.metec-estad2019.com)

## HOST

Steel Institute VDEh | Dr.-Ing. Hans Bodo Lungen  
Sohnstr. 65 | 40237 Düsseldorf | Germany  
Phone: +49 211 6707-444 | Fax: +49 211 6707-440  
[www.stahl-online.de](http://www.stahl-online.de)

## ORGANIZATION

TEMA Technologie Marketing AG | Mr. Carsten Scheele  
Aachener-und-Münchener-Allee 9 | 52074 Aachen | Germany  
Phone: +49 241 88970-300 | Fax: +49 241 88970-999  
Email: [info@metec-estad.com](mailto:info@metec-estad.com) | [www.tema.de](http://www.tema.de)

## IN COOPERATION WITH

The Austrian Society for Metallurgy and Materials (ASMET), Austria  
The Swedish Steel Producers Association (Jernkontoret), Sweden  
Associazione Italiana di Metallurgia (AIM), Italy

## VENUE

CCD Congress Center Düsseldorf | DüsseldorfCongress  
Veranstaltungsgesellschaft mbH | Stockumer Kirchstraße 61  
40474 Düsseldorf | Germany | [www.duesseldorfcongress.de](http://www.duesseldorfcongress.de)  
Phone: +49 211 4560-8401 | Fax: +49 211 4560-8556

## TRAVEL

Düsseldorf is easily reachable by plane to Düsseldorf International Airport (DUS), railway or car. The CCD Congress Center Düsseldorf is set on the bank of the Rhine and linked to Messe Düsseldorf exhibition center.

## COMPLIANCE RULES

The Steel Institute VDEh and all cooperating organizations are committed to adhering strictly to all applicable antitrust laws. Within the context of METEC & 4th ESTAD it is strictly prohibited to discuss competitively sensitive subjects such as price-fixing agreements or agreements on quantities.

[www.metec-estad2019.com](http://www.metec-estad2019.com)



# METEC & 4<sup>TH</sup> ESTAD 2019

**DÜSSELDORF, GERMANY**  
CCD CONGRESS CENTER DÜSSELDORF  
24 – 28 JUNE 2019

## SECOND ANNOUNCEMENT & CALL FOR PAPERS

ENVIRONMENTAL AND  
ENERGY ASPECTS

...accompanying  
the METEC Trade Fair.



[www.metec-estad2019.com](http://www.metec-estad2019.com)

## ABOUT ESTAD 2019

Only those who continue to develop their business remain competitive. The prerequisite for this development means being constantly informed about the latest and most sophisticated technological advances, exchanging ideas and initiating and expanding networks with clients, partners and suppliers. With the accompanying METEC conference 4th European Steel Technology and Application Days 2019 (4th ESTAD 2019) the Steel Institute VDEh offers visitors the perfect opportunity to reach these objectives. At this event you will acquire the latest information on new ideas and developments as well as on the state-of-the-art in metallurgical process technologies iron and steel production, steel materials and steel application:

### MAIN TOPICS:

IRONMAKING

STEELMAKING

ROLLING AND FORGING

STEEL MATERIALS AND THEIR APPLICATION,  
ADDITIVE MANUFACTURING, SURFACE TECHNOLOGIES

ENVIRONMENTAL AND  
ENERGY ASPECTS

The topics include all aspects in **Industry 4.0** (Cyber physical systems, horizontal and vertical integration, big data...)

### ENVIRONMENTAL AND ENERGY ASPECTS

#### Environmental and energy aspects in iron and steelmaking

- Energy savings and energy efficiency optimization
- Alternative fuels and reductants in iron and steelmaking
- Injection of waste plastics, flue dust or secondary raw materials into the blast furnace
- Use of waste gas and waste heat
- Challenges of renewable gases in iron and steelmaking
- Use of secondary raw materials and wastes in iron and steelmaking
- Emission avoidance from iron and steelmaking
- By-product management in iron and steel production
- Improvement, treatment and usage of iron and steelmaking slags
- Water cascades and recirculation
- Recovery of process chemicals
- Examination and remediation of contaminated sites
- New and alternative technologies

#### Efficiency increase and CO<sub>2</sub> mitigation in iron and steelmaking

- Strategies for energy efficiency increase
- Smart carbon usage
- CO<sub>2</sub> capture in iron and steelmaking processes
- CO<sub>2</sub> storage and use from iron and steelmaking
- Energy management systems
- Use of CO<sub>2</sub> from process gases for new products
- Carbon direct avoidance
- Energy and waste heat recovery

