

SUBMISSION OF PAPERS

All paper proposals must be submitted online. Please visit: 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
> 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 & 4th ESTAD 2019

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

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 | 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
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



METEC & 4TH ESTAD 2019

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

SECOND ANNOUNCEMENT & CALL FOR PAPERS

STEELMAKING

...accompanying
the METEC Trade Fair.



www.metec-estad2019.com

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...)

STEELMAKING

Oxygen steelmaking

- Hot metal pretreatment
- Current status and new developments in converter technology
- New installations and revampings
- Fundamentals of oxygen steelmaking process
- Converter charge materials and their preparation
- Ladle metallurgy
- Converter refractory linings and durability
- Plant operation experiences
- Automation and on-line process analyses
- By products, recycling and environment
- Waste heat recovery
- Modelling and simulation
- Slag treatment

Electric steelmaking

- Equipment
- Current status and new developments in EAF technology
- Fundamentals in electric steelmaking
- Process control, automation and modelling
- Metallurgy of electric steelmaking
- Ladle metallurgy
- Electrodes
- Injection of coal
- Refractory linings and durability
- Use of DRI and HBI in electric arc furnaces
- Energy efficiency and energy recovery, Ladle metallurgy
- Waste gas treatment
- Slag treatment

Continuous casting, near-net shape casting and ingot casting

- Formation of non-metallic compounds in the solidification process
- Metallurgy and flow control in the tundish
- Refractory materials and tundish lining
- Heats scheduling and management
- Continuous casting technology
- Mould performance and initial solidification
- Mould lubrication
- Flow control in the tundish, mold and strand
- Metallurgy of ingots for forging processes

- Control of solidification structures and management of defects
- Special technologies for high performance steels
- Steel yield and productivity improvements
- Application and control of electromagnetic fields
- Metallurgical and operational results
- Quality control and detection of defects
- Solidification, segregation and high temperature behavior
- Process development and optimization
- Computer simulations and modelling of solidification, ingot castings and CC process
- Automation, maintenance, on-line machine control
- New installations and revampings
- Safety and environmental aspects
- Downstream processing of CC products and of ingots
- New casting processes
- Product quality (surface defects, internal quality)
- In-line rolling
- Near net shape casting, thin and medium slabs
- Strip casting, beam blank casting
- Research in progress
- Remelting

Industry 4.0 in the steel industry

- Cyber Physical Systems
- Horizontal Integration
- Vertical Integration
- End-to-end engineering
- Big Data
- Self organisation
- Material tracking, material genealogy
- Through Process Quality Control
- Predictive Maintenance
- IT- Aspects (Cyber Security, IT-Network, Standardisation, etc.)
- Application examples in steel industry