

PARTICIPANTS, SPEAKERS, SPONSORS

Participants:

If you are interested in the METEC & 4TH ESTAD 2019, fill in the "Keep me informed" form at the conference website.

As a participant of the METEC & 4TH ESTAD 2019 you will receive a ticket for free entrance to the GIFA, METEC, THERMPROCESS and NEWCAST.

Speakers:

A detailed "Call for Papers" will be sent out in early 2018.

Sponsors:

We would be pleased to offer you a sponsorship package tailored to suit your own needs. This would enable you to promote your products and to ideally position yourselves as a solution provider for your branch. Please contact TEMA Technologie Marketing AG for further details.
(+49 241 88 970-302 | info@metec-estad.com)

More Information is available at
www.metec-estad2019.com

SUMMARIZED PRELIMINARY TIMETABLE

June 2019

Monday 24	Early Congress registration Get-together
Tuesday 25	Opening/plenary session Technical sessions Evening event
Wednesday 26	Technical sessions
Thursday 27	Technical sessions Closing session
Friday 28	Plant visits

Exhibition

HOST

Steel Institute VDEh | Dr.-Ing. Hans Bodo Längen
Sohnstr. 65 | 40237 Düsseldorf | Germany
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www.stahl-online.de

CONGRESS SECRETARIAT / ORGANIZATION

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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.
www.metec-estad2019.com



METEC & 4TH ESTAD 2019

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

FIRST ANNOUNCEMENT

STEELMAKING

...accompanying
the METEC Trade Fair.



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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