

## PARTICIPANTS, SPEAKERS, SPONSORS

### Participants:

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

As a participant of the METEC & 4<sup>TH</sup> 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](http://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  
Phone: +49 211 6707-444 | Fax: +49 211 6707-440  
[www.stahl-online.de](http://www.stahl-online.de)

### CONGRESS SECRETARIAT / ORGANIZATION

TEMA Technologie Marketing AG | Attn. Ms. Jutta Grawitter M.Sc.  
Aachener-und-Münchener-Allee 9 | 52074 Aachen | Germany  
Phone: +49 241 88970-302 | Fax: +49 241 88970-999  
Email: info@metec-estad.com | [www.tema.de](http://www.tema.de)

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



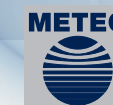
# METEC & 4<sup>TH</sup> ESTAD 2019

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

## FIRST ANNOUNCEMENT

ROLLING AND FORGING

...accompanying  
the METEC Trade Fair.



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

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## 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...)

## ROLLING AND FORGING

### Rolling of long and flat products

- Hot strip rolling
- Cold strip rolling and processing lines
- Plate Rolling
- Rod and bar rolling
- Rolling of tubes, sections and rails
- Annealing, galvanizing and finishing
- Processing of new steel grades
- Improved efficiency and product quality
- Rolls for Rolling (Wear and lubrication, grinding, new materials, roll surface, roll inspection)
- Digitalization and Smart Factory-solutions for processing industry
- Virtualization and HMI\* in rolling and finishing operations
- Assistance systems in rolling and finishing operations
- Sensors and control, online measurement technologies
- Modelling and simulations
- Material tracking and material flow control: transportation and logistics
- Process and production control, process automation
- Plant upgrades and new equipment developments
- Maintenance: plant availability and condition monitoring
- Environmental issues
- Reheating and descaling

\*HMI= Human Machine Interface

### Forging

- Latest developments in forging plants
- Optimization of the forging process
- Process simulation
- Technical measurement of forgings
- Measures for ensuring quality
- Descaling
- Furnace technology
- Burner technology
- Heat treatment process
- Energy Management

### 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

