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Düsseldorf, the capital of North Rhine-Westphalia, is also home of the Steel Institute VDEh. Düsseldorf has strong connections to the coke, iron and steel industries thanks to the adjacent Ruhr region, the traditional home to coke, iron and steel making facilities. Taking all of this into account, METEC and ESTAD 2015 is guaranteed to be an impressive gathering of experts.

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. You can sponsor, for example, the conference packs, the conference proceedings CD, lunch, coffee breaks and much more. As part of the sponsorship package, we are pleased to offer you advice on your promotional presence at ESTAD 2015. Please contact TEMA Technologie Marketing AG for further details.

More information is available at www.metec-estad2015.com

**More about ESTAD**

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**Second Announcement & Call for Papers**

...accompanying the METEC Trade Fair.

**Summarized Preliminary Timetable**

**June 2015**

| Monday 15 | Early Congress registration | Get-together |
| Tuesday 16 | Opening/plenary session | Technical sessions |
| Wednesday 17 | Technical sessions |
| Thursday 18 | Technical sessions | Closing session |
| Friday 19 | Plant visits |

**Venue**

CCD Congress Center Düsseldorf | DüsseldorfCongress
Veranstaltungsgetsellschaft 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.

**Website**

www.metec-estad2015.com
About METEC

The 9th International Metallurgy Trade Fair (METEC) will take place from 15 to 19 June 2015 in Düsseldorf, Germany. The accompanying conference ESTAD will start with a get-together on 15 June 2015 and end with plant visits on 19 June 2015.

With the four trade fairs
• METEC 15. 9th International Metallurgical Technology Trade Fair with Congresses
• GIFA 15. 13th International Foundry Trade Fair with WFO Technical Forum
• THERMPROCESS 15. 11th International Trade Fair and Symposium for Thermo Process Technology
• NEWCAST 15. 4th International Castings Trade Fair with NEWCAST FORUM

Düsseldorf has established itself as the meeting place for metallurgy. Taking place every four years, more than 70,000 visitors from over 80 countries attended this leading fair for steelmaking metallurgy, foundries, casting and thermal processing technology in 2011.

Facts and figures:
METEC visitors are interested in equipment and components for steelworks and mills, iron and non-ferrous metal production, measuring, operating and control technology and in data communication. METEC visitors work in the areas of iron, steel and non-ferrous metal production as well as in services, trade and mechanical engineering. 97% of attendees were very positive about their visit to METEC 2011.

About 2nd ESTAD 2015

Only those who continue to develop their businesses 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. The 2nd European Steel Technology and Application Days (ESTAD) 2015 run in parallel with the METEC Trade Fair. The Steel Institute VDEh and its partners offer visitors the perfect opportunity to reach their 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 for iron and steel production, steel materials and steel application:

1. Raw materials including beneficiation
2. Cokemaking
3. Sintering and pelletising
4. Blast furnace ironmaking
5. Direct reduction and smelting reduction
6. Oxygen steelmaking
7. Electric steelmaking
8. Continuous casting, near-net shape casting and ingot casting
9. Rolling of long and flat products
10. Forging
11. Surface technologies
12. Environmental and energy aspects in iron and steelmaking
13. Efficiency increase and CO₂ mitigation in iron and steelmaking
14. Steel materials and their application

Please find more details following the navigation number.

Chairman of 2nd ESTAD 2015

Dr.-Ing. Herbert Eichelkraut
Member of the Executive Board, ThyssenKrupp Steel Europe AG, Duisburg, Germany

Scientific Program Committee for 2nd ESTAD 2015

A Scientific Program Committee of international experts in all fields of iron and steelmaking processes, steel materials and steel application will review the proposed papers. The list of the experts is available on the homepage.

www.metec-estad2015.com
4. BLAST FURNACE IRONMAKING
- Fundamentals in blast furnace ironmaking
- Blast furnace construction and design
- Blast furnace process optimization and automation
- Modern process control techniques
- Blast furnace relining
- Blast furnace campaign life extension
- Blast furnace refractories and cooling
- Blast furnace charging
- Blast furnace productivity
- Blast furnace hearth management
- Hot metal and slag quality
- Coke quality requirements and reduced coke rates
- Injection of auxiliary reductants (coal, oil, gas, plastics) and oxygen
- Hot blast stoves
- New blast furnaces
- Blast furnace liquid management and casting practice
- Gas cleaning devices
- Top gas expansion and recovery turbines
- Oxygen and top gas recycling blast furnace

5. DIRECT REDUCTION AND SMELTING REDUCTION
- Fundamentals in direct reduction and smelting reduction
- Production and use of DRI and HBI
- Gas-based DRI processes and new developments
- Coal-based DRI processes and new developments
- Transport and charge of hot DRI to electric arc furnaces
- Shipment of DRI and HBI
- Current status of Corex and Finex processes
- Status of Hisarna process
- Other smelting reduction processes

6. OXYGEN STEELMAKING
- Current status and new developments in converter technology
- Fundamentals of oxygen steelmaking process
- Converter charge materials and their preparation
- Ladle metallurgy
- Converter plant operation experience
- Converter refractory lining and durability
- Plant operation experience
- Automation and on-line process analyses

7. ELECTRIC STEELMAKING
- Current status and new developments in EAF technology
- Fundamentals in electric steelmaking
- Process control, automation and modelling
- Metallurgy of electric steelmaking
- Auxiliary equipment
- Electrodes
- Injection of coal
- Refractories and durability
- Use of DRI and HBI in electric arc furnaces
- Energy efficiency and energy recovery

8. 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 material 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

9. ROLLING OF LONG AND FLAT PRODUCTS
- Hot sheet rolling
- Cold sheet rolling & annealing
- Plate rolling
- Rod, bar and tube rolling
- New processes
- New products, processing of new steels
- Reheating furnace – Oxidation and descaling
- Thermo mechanical treatment
- Lubrication and roll wear
- Design and management of mill assets
- Roll technology
- Automation, control and measurements
- Modelling and simulation
- Energy efficiency

10. 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
- Cold rolling, forming
Participate ESTAD 2015 and visit the trade fairs

As a participant of the ESTAD 2015 you will receive a ticket for free entrance to the METEC, GIFA, THERMPROCESS and NEWCAST.

Submission of papers

All paper proposals must be submitted online. Please visit: www.metec-estad2015.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. All papers must be submitted in English and focus on best practices.

Language

The conference language is English.

Deadline

Please submit your abstracts by 31 August 2014 at the very latest. All abstracts will be refereed by the scientific program committee. In the case of too many submissions, abstracts of equal quality will be accepted on a first come, first serve basis.