5th International Cupola Conference

June 22 and 23, 2017 at CCS Saarbrücken

Programme Survey

Pictures: Küttner, Fritz Winter

NEW

Online Registration:
www.cupolaconference.com

Venue:
CCS Congress Centrum Saar
Hafenstraße 12, 66111 Saarbrücken

Host:
Bundesverband der Deutschen Gießerei-Industrie (BDG)

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1ST DAY PROGRAMME

SESSION 1 ENERGY, WASTE HEAT RECOVERY AND STORAGE

Chairman: Hans Jaan Rachner, Küttner GmbH, Essen

09:00 **Opening**
Dr. Christian Wilhelm, BDG, Düsseldorf

09:10 **Energy streams analysis and comparison for cupola melt shop operations and oxygen use**
Dr. Thomas Niehoff, Linde AG, Unterschleißheim

09:35 **Energetical optimization of crude gas cooling of hot-blast cupola plants**
Frank Wondra, Herp Gießereitechnik GmbH, Freudenberg

10:00 **Dual Media High Temperature Thermal Storage for Industrial Waste Heat Recovery**
Richard Gurtner, ZAE Bayern, Garching

10:30 Coffee Break

11:00 **High efficient and economic use of cupola waste heat**
Rainer Schnur, DeVeTec GmbH, Sankt Ingbert

11:25 **Energy efficiency improvement and cost savings through electricity generation from waste heat**
Julian Lechner, Orcan Energy AG, München

11:50 **Modernisation of wind blowers saves energy**
Roman Wamsbach, Siemens AG, Nürnberg

12:15 **20 Years Cokeless Cupola – Retrospective and Outlook**
Dr. Ralf Jennes, Küttner GmbH, Essen

12:30 Lunch

SESSION 2 ENVIRONMENT, SUSTAINABLE CHARGE MATERIALS AND RECYCLING

Chairman: Dr. Dirk Radebach, Fritz Winter Eisengießerei GmbH & Co.KG, Stadtallendorf

14:00 **Cupola and Climate Protection – a Contradiction in Terms?**
Elke Radtke, BDG, Düsseldorf

14:25 **Development of New Bio-Energy Technology And Its Verification Test**
Dr. Tamio Ida, Kindai University, Osaka (JP)

14:50 **The use of biogeneous carbon carriers in iron and steel industries to improve the environmental balance**
Prof. Dr.-Ing. Saulo H. Freitas Seabra da Rocha*, Tina Steinmetzger, Hochschule R West Bottrop; Dr. Dirk Radebach, Jörg Billasch, Fritz Winter Eisengießerei GmbH & Co.KG, Stadtallendorf

15:15 Coffee Break

15:40 **The Battery Recycling Process**
Valentin Barad*, Jean Pierre Garnier, Fiday Gestion, Chassey les Scey (F)

16:05 **SiC bricks in the cupola**
Guido Horn*, Scholz Rohstoffe GmbH & Co.KG, Duisburg; Dr. Dirk Radebach, Fritz Winter Eisengießerei GmbH & Co.KG, Stadtallendorf

16:30 **End of Session**

17:00 **Bus Depart at CCS**

18:00 **Guided tours of World Heritage Site Völklinger Hütte (ancient integrated steel plant)**

19:00 **Foundrymens' Night**

2ND DAY PROGRAMME

SESSION 3 SUSTAINABLE CHARGE MATERIALS, OPERATION

Chairman: Mehmet Ucur, Eisenwerk Brühl GmbH, Brühl

09:00 **How important are CRI and CSR for foundry coke and cupola performance?**
Maria A. Diez, INCAR-CSIC, Oviedo (ES)

09:25 **Influence of foundry pig iron on cast iron molten in the cupola**
Mathias Lueben, Georg Fischer GmbH, Singen

** Speaker*

Pictures: Fotoschlick - Fotolia, Blickfang - Fotolia, Peter Fuchs - Fotolia, Petair - Fotolia

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09:50 **The use of carbon dust as reduction agent for the production of foundry pig iron in the blast furnace**
Dr. Carsten Hillmann*, Rolf Emunds, Christian Köhler, DK Recycling und Roheisen GmbH, Duisburg

10:15 Coffee Break

10:45 **Comparison of Steel Scraps for Cupola and Induction Furnace –Properties, Requirements and Availability**
Mehmet Ucur, Eisenwerk Brühl GmbH, Brühl

11:10 **High Performance Castable Refractories for Cupola Applications**
Paul Stancer*, Vesuvius UK; Jerome Drevin, Foseco FR; Dave Smith, Foseco USA

11:35 **Implementation of Cooling Technology in Cupolas**
Angelo Petrocelli*, Pete Satre, Allied Mineral Products, Columbus/OH (USA)

12:00 Lunch

SESSION 4 OPERATION AND PROCESS OPTIMIZATION

Chairman: Andreas Kleinert, Georg Fischer GmbH, Mettmann

13:00 **Improvement of operating time of the slag riser in the siphon of a hot blast cupola**
Dr. Wilhelm Eitel*, DWE, Ratingen; Andreas Kleinert, Georg Fischer GmbH, Mettmann

13:25 **Change from atmospheric to pressurized siphon**
Sergio Magri, Fonderia di Torbole (IT)

13:50 **Data-driven cupola control**
Prof. Johannes Gottschling*, D. Verlage, Univ. Duisburg-Essen; Prof. Dierk Hartmann, HS Kempten; Andreas Nissen, L. Schnier, M.Busch GmbH & Co.KG, Bestwig

14:15 Coffee Break

14.45 **Storage of cupola base iron in channel induction furnaces**
Robert Greibig*, Georg Fischer GmbH, Singen; Dr. Erwin Dötsch, Dr. Marco Rische, ABP Induction Systems GmbH, Dortmund

15:10 **Industry 4.0 Process Control and Traceability for the Cast Iron Foundry Industry**
Steve Dawson*, A. Denis, SinterCast AB, Katrineholm (SE)

15:35 **Planning and Optimization of Casting and Transport Processes – Overall Process from Liquid Iron Storage through Transport to Pouring**
Thomas Voss, Induga GmbH & Co.KG, Lammersdorf; Dr. Dietmar Trauzeddel, Otto Junker GmbH, Lammersdorf

16:00 **Final discussion, Summary**
Dr. Ingo Steller, BDG, Düsseldorf

Programme Committee:

Mehmet Ucur, Eisenwerk Brühl GmbH

Dr. Dirk Radebach, Fritz Winter Eisengießerei GmbH & Co. KG

Andreas Kleinert, Georg Fischer GmbH

Hans-Jaan Rachner, Küttner GmbH & Co. KG

Dr. Christian Wilhelm, BDG Bundesverband der Deutschen Gießerei-Industrie

Dr. Ingo Steller, BDG Bundesverband der Deutschen Gießerei-Industrie

Picture: CCS

** Speaker*