

5th International Cupola Conference

June 22 and 23, 2017 at CCS Saarbrücken

Programme Survey



Pictures: Kältner, Fritz Winter

NEW

Online Registration:
www.cupolaconference.com

Venue:

CCS Congress Centrum Saar
Hafenstraße 12, 66111 Saarbrücken

Host:

Bundesverband der Deutschen Gießerei-Industrie (BDG)

Further Information:

Bundesverband der Deutschen Gießerei-Industrie (BDG)
Simone Bednareck
Phone: +49 (0)211/68 71-338
E-Mail: simone.bednareck@bdguss.de

Registration:

VDG-Akademie, VDG Verein Deutscher
Giessereifachleute e.V.
Hansaallee 203, 40549 Düsseldorf
Phone: +49 (0)211/68 71-362 (Andrea Kirsch)
Phone: +49 (0)211/68 71-335 (Corinna Knöpken)
E-Mail: info@vdg-akademie.de



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**
R. Aumann, M. Lintl, Orcan Energy AG, München
- 11:50** **Experience with a water-cooled 35 t/h hot-blast long-campaign cupola**
Ren Xingwu, Weicha & Forging Co., Weifang, China
- 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



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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
 Dr. Erwin Dötsch, Dr. Marco Rische, ABP Induction Systems GmbH, Dortmund
- 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 Petrucelli*, Pete Satre, Allied Mineral Products, Columbus/OH (USA)
- 12:00** **Lunch**
- 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
- SESSION 4 OPERATION AND PROCESS OPTIMIZATION**
- Chairman:** Robert Greibig, Georg Fischer GmbH, Singen
- 13:00** **Improvement of operating time of the slag riser in the siphon of a hot blast cupola**
 Dr. Wilhelm Eitel*, DWE, Ratingen; David Kartje, 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. 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;
- 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

* Speaker