STEAM GENERATORS, FLUIDIZED BED FIRING SYSTEMS, INDUSTRIAL AND COGENERATION PLANTS 2014

7. INTERNATIONAL WORKSHOP OPERATING EXPERIENCE WITH FLUIDIZED BED FIRING SYSTEMS

WITH TECHNICAL EXHIBITION

(25) 26 AND 27 MARCH 2014 IN WEIMAR/GERMANY
The two-year rhythm taking place VGB conference "Steam Generators, Fluidized Bed Firing Systems, Industrial and Cogeneration Plants" is organised for the first time together with the successful VGB workshop "Fluidized Bed Firing Systems". With this step the cooperation and synergetic effects should be increased for the members.

Aim and task of this conference is to bring up for discussion the existing operational experiences with the new technologies as well as the practical use and to maintain an intensive exchange of experiences between the operators supplemented by the manufactures.

Due to the adopted energy policy in Germany the power plants are faced with unprecedented tasks.

The changes in the market and the resulting reactions on all sides, that the exchange of experiences is highly desirable. Because of the range of diverse plant concepts this year’s conference is direct addressed to operators, plant engineers, manufactures, researchers and insurer.

The main topics are:

- Flexible operation of industrial and cogeneration plants in the changing electricity market (KWK, heat storage, electric boilers, future prospects, human resources)
- Status Quo: Modernisation or new building?
- Operation experiences with fluidized bed firing systems with focus on co-combustion, biomass and the control of erosion and corrosion

As in previous years, our cooperation partners are present in an accompanying technical exhibition, which gives the opportunity for additional information. The exhibitors and the conference participants as well can use the side program as a platform for an active exchange of ideas and for cultivating and intensifying their business contacts.

Essen, November 2013
CONFERENCE PROGRAM
(Subject to change)

TUESDAY, 25 MARCH 2014
18:30 „Get-Together” in der Villa Haar

WEDNESDAY, 26 MARCH 2014
08:30 Opening of the exhibition
09:00 Welcome
Dr. Oliver Then, VGB PowerTech e.V., Essen/Germany

Plenary Sessions
General overview of the energy policy in Germany and Europe
09:15 Peter Altmaier
P 1 Federal Minister for the Environment, Nature Conservation and Nuclear Safety

Energy Concept of the Free State of Thuringia
10:00 Matthias Machnig
P 2 Minister of Economy, Labour and Technology of the Free State of Thuringia
10:30 Coffee break

Section I
Optimization and flexibility of power plant engineering:
Part 1
Moderation: Dipl.-Ing. Udo Gade, Vattenfall Europe PowerConsult GmbH, Cottbus/Germany

11:00 Modernisation options or plant replacement:
V 1 Legal framework conditions and future developments
Dipl.-Ökonom Jens Gatena, trend:research GmbH, Bremen/Germany

11:30 Ones-Trough boilers in Steam and Gasturbine
V 2 Combined Plants for dynamic load following operation
Ralf Bräuer, Bernd Gericke, Visser und Smit Hanab GmbH, Kaarst/Germany

12:00 Preservation of boilers and turbines –
V 3 Experience on a 350 MW coal fired power plant
Dr.-Ing. Erwin Czempik, REICON Wärmekunde und Wasserkunde Leipzig GmbH, Leipzig/Germany

12:30 Lunch at the exhibition floor

13:30 Increase of Flexibility and Technical Optimisation of the new Lignite Boiler Boxberg R
V 4 Dr.-Ing. Thomas Brunne, Dipl.-Ing. Günter Heimann, Vattenfall Europe Generation AG, Cottbus,
Dipl.-Ing. Jürgen Stosch, Vattenfall Europe Power Consult, Cottbus/Germany
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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| 14:00  | Integration of an Economizer Bypass to reduce the Minimum Load in a 750 MW Hard Coal Fired Power Plant  
Dipl.-Ing. Bernhard Michels, Kraftwerk Mehrum GmbH, Hohenhameln/Germany |
| 14:30  | Coffee break                                                         |

Section II:
Workshop Fluidized Bed Firing Systems: Part 1
Moderation: Prof. Joachim Werther, TU Hamburg-Harburg/Germany

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| 14:45  | China’s 600 MWe Circulating Fluidized Bed Boiler – Some Issues in the Development and its Operation  
Prof. Dr. Leming Cheng, Zhejiang University, Hangzhou/China |
| 15:20  | 10 years of cofiring – resume and perspective  
Dipl.-Ing. Edgar Basler, Koehler Energie GmbH, Oberkirch/Germany |
| 15:55  | Simulation of Erosion in Fluidized Bed Combustors  
Dr.-Ing. Martin Weng, Dipl.-Ing. Adlan Omer, aixprocess GmbH, Aachen, Dipl.-Ing. Uwe Herrmann, WSW Energie & Wasser AG, Wuppertal, Dipl.-Ing. Joachim Plackmeyer, Ing.-Büro Plackmeyer, Bergisch Gladbach/Germany |
| 16:30  | Coffee break                                                         |
| 16:45  | The New 200 MWe wood-fired CFBC at Polaniec/Polen  
Dr. Ir. Frans van Dijen, Ing. Héloïse Gennart, Laborelec, Linkebeek/Belgien |
| 17:20  | End of first conference day and Opportunity to visit the exhibition  
City Tour |
| 19:00  | Evening event at the Weimarhalle „Thüringer-Abend“ |
THURSDAY, 27 MARCH 2014

Section I:
Optimization and flexibility of power plant engineering:
Part 2
Moderation: Dipl.-Ing. Jörg-Andreas Czernitzky,
Vattenfall Europe Wärme AG, Berlin/Germany

09:00 Sustainable Process Steam from Wood Pellets
and Wood Chips in the power output range up to
10 t/h – Field Reports of Energy, Solutions for the
Textile and Food Industries
Thomas Schmidmeier, NaturEnergie,
Zeitlarn Ödenthal/Germany

09:30 An evaluation method regarding energy – supply
safety for complex production sites
Dr.-Ing. Veit Hagenmeyer, BASF AG, Ludwigshafen,
Dr.-Ing. Heinz Langner, interviam GbR, Düsseldorf,
Dipl.-Ing. Werner Hartwig, VGB PowerTech e.V.,
Essen/Germany

10:00 Increase of efficiency of aged electrostatical
precipitators
Dipl.-Ing. Wolfgang Kletsch, Hoffmeier Industrie-
anlagen, Hamm, Dipl.-Ing. Benjamin Schoepe,
RWE Power AG/Grevenbroich/Germany

10:30 Coffee break

Section II:
Workshop Fluidized Bed Firing Systems: Part 2
Moderation: Prof. Joachim Werther,
TU Hamburg-Harburg/Germany

11:00 Conversion and Operational Experience with
Biomass Firing in CFB Boiler at Power Plant
Porici (CEZ Group)
Hynek Lang, CEZ a.s., Prag/Tschechische Republik

11:35 Prediction of Moabit CFBC Boiler Performance
for Wood co-firing
Dr.-Ing. Martin Weng, Dipl.-Ing. Adlan Omer,
aixprocess GmbH, Aachen, Dipl.-Ing. Michael Evard,
HKW Moabit, Berlin/Germany

12:10 Operating Experience with Steam CFBC Boilers
in China
Prof. Dr. Qinggang Lu, Chinese Academy of Sciences,
Beijing/China

12:45 Lunch at the exhibition floor

13:45 Some remarks on the current CFBC activities
in Poland
Prof. Rafal Kobylecki, Czestochowa University of
Technology/Polen
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>14:20</td>
<td>30 years refractory linings in Fluidized Bed Combustion Systems – Operating experiences lead to the new VGB-Standard</td>
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<td>Dipl.-Ing. Matthias Trost, Trost Energy Consult, Flensburg/Germany</td>
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<td>14:55</td>
<td>Retrofit of a co-combustion CFBC-Plant for a more flexible CHP-Plant</td>
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<td>Dr.-Ing. Martin Mineur, Vattenfall Europe</td>
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<td>New Energy GmbH, Hamburg/Germany</td>
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<td>15:30</td>
<td>Coffee break</td>
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<tr>
<td>16:00</td>
<td>Requirements and operation of decentralised power plants in the changing power market</td>
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<td>Norbert Hönings, E.ON Energy Projects GmbH, München/Germany</td>
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<td>16:30</td>
<td>Modifications of hard coal fired power plants in view of extended coal range</td>
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<td>Dipl. Ing. Andreas Schmidt, STEAG Energy Services GmbH, Essen/Germany</td>
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<td>17:00</td>
<td>Fuel-leaflet: Early detection of negative impacts from minor components in fuels</td>
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<td>Dr. Wolfgang Spiegel, CheMin GmbH, Augsburg/Germany</td>
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<td>17:30</td>
<td>Closing words</td>
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PRACTICAL INFORMATION

VENUE

congress centrum neue weimarhalle
Weimar GmbH Gesellschaft für Wirtschaftsförderung,
Kongress- und Tourismservice
UNESCO-Platz 1
99423 Weimar/Germany
Fon: +49 3643 745-100, Fax: +49 3643 745-333
www.weimarhalle.de

CONFERENCE LANGUAGE

German and English – Simultaneous translation is provided
Kindly supported by Foster Wheeler Global Power

REGISTRATION

Participants are requested to register before February 24, 2014
(deadline for nomination in list of participants) using the enclosed
registration form. We will confirm your registration by sending the
invoice. Participation is also possible upon late registration;
however, in this case the participant’s name cannot be included
into the list of participants. Tickets can also be bought at the
conference office.

VGB Power Tech e.V.,
P.O. Box 10 39 32, 45039 Essen/Germany
Rita Höffgen
Fon: +49 201 8128-314, Fax: +49 201 8128-321
E-Mail: rita.hoeffgen@vgb.org

ATTENDANCE

VGB Members € 740,00
Non Members € 980,00
University, Public Authorities, Pensioners € 200,00

The attendance fee is free of VAT.

Students are admitted free of charge on presentation of a valid
students identification card. Please send a photocopy of students’
identification card in case of written registration.

Credit cards or foreign currency cannot be accepted for payment
at the conference office.

The attendance fee includes the conference proceedings which
can be downloaded, participants list, coffee breaks, lunches,
dinners dated 25 and 26 March and the technical visit dated
28 March 2014.
The following fees will be charged for cancellation of the registration:

- Up to 14 days before the conference: 10%
- Within 14 days before the conference: 25%
- Non-attendance or cancellation on the day of the conference: 100%

Only written cancellations are accepted.

**EVENING EVENTS**

Get Together on Tuesday, 25 March 2014. We will start with a reception on the terrace of the Villa Haar at 18:30.

Afterwards we start our get together in the historic building on Ilmenpark. The number of participants is limited.

**Design your own flexible arrival:**

- **a**) Bustransfer to Villa Haar. Bus will depart at 18:00 “Goethe Platz” in front of „Russischen Hof” (city center). Registration required.

- **b**) Own arriving by car, taxi or by feet [25 min.] address: Villa Haar, Dichterweg 2a, 99425 Weimar/Germany

The return is planned by shuttle buses. Departure: about 21:30 (destinations: Hotel Leonardo, Hotel Alt Weimar, Hotel Dorint, Downtown/„Goethe Platz“).

Further information: www.villahaar.de.

On Wednesday, 26 March 2014 all participants are invited to join an evening event in the Weimarhalle on the exhibition floor. Before the start of the evening event we invite all participants and exhibitors for a city tour about 1 hour. Registration is required.

Then we look forward to a typical “Thuringian evening” with many delicacies and cultural issues of the region. Beginning at 19 clock Weimarhallepark: UNESCO-Platz 1, 99423 Weimar/Germany.

Further information: www.weimarhalle.de

We ask you politely to wear your badge during this evening event.

**TECHNICAL VISIT**

Upon invitation by Meeraner Dampfkesselbau GmbH will be visited on Friday, 28 March 2014. The Buses will depart at 9:30 “Goethe Platz”. Return about 14:00. The applications are limited. Kindly supported by Hitachi Power Europe Service GmbH

Further information: www.mdkb.de

**HOTELRESERVATION**

The reservation is done centrally by the Weimar Tourism GmbH, which offers rooms in different categories. Please contact with the keyword „VGB 2014“ directly to:
Weimar GmbH
Gesellschaft für Wirtschaftsförderung,
Kongress- und Tourismuservice
UNESCO-Platz 1
99423 Weimar/Germany
Fon: +49 3643 745-442, Fax: +49 3643 745-420
E-Mail: tagungen.tourist-info@weimar.de
Please use the form „Zimmerreservierung/Room Reservation“ (VGB-Homepage margin/download).
The hotel contingent ends on 10 February 2014.
The VGB regrets being unable to make reservations.

CONFERENCE OFFICE
The VGB Conference Office will be located nearby the entrance in the Foyer.
Opening times:
Wednesday 26 March, 2014 08:00-18:00
Thursday 27 March, 2014 08:30-17:00
Tel.: +49 3643 745-143, Fax: +49 3643-745-142

EXHIBITION
VGB-Geschäftsstelle, Postfach 10 39 32, 45039 Essen/Germany
Steffanie Fidorra-Fränz
Fon: +49 201 8128-299, Fax: +49 201 8128-6299
E-Mail: steffanie.fidorra-fraenz@vgb.org

ROAD MAP
see map
By bus:
Stops outside the station lines
1, terminal Ehringsdorf (Taubach);
5, terminus Hospital;
6, Niedergrunstedt terminus (laying field, Poss village);
7, terminal Weimar West;
8, terminus Merketal
Direction Goethe Square/Get off at the main post/Goethe Square. Opposite to the direction of travel followed by a short piece of the Karl-Liebknecht-Straße, past the main post office (about 50 m) and turn left into the Schwanseestraße, pass under the gateway to UNESCO after about ten square meters on the right side
On foot:
Follow the Carl-August-Allee/Go over the Rathenau Platz past the New Museum, the Weimar court over, the new congress center is weimarhalle already seen
Flight:
The arrival can be made to Frankfurt am Main and then by train to Weimar. Alternative flights directly to Erfurt airport are possible as well.

Car:
A4 motorway and exit at Weimar turn right onto the B85 towards Weimar. Follow the signs to the city center in Weimar. The garage of the congress centrum neue weimarhalle is signposted and takes you directly to Weimarhallenpark. Garage entrance on the right side of the road (about ten minutes drive from the motorway exit).

Access to Weimar from the B 7 from Erfurt or Jena:
The signs of the garage of the congress centrum neue weimarhalle following the city center.

More information about the VGB Conference and details on the venue, travel etc. can be found on the homepage under www.vgb.org
VGB CO-OPERATION PARTNERS/EXHIBITORS

Foster Wheeler, Germany

HITACHI
Inspire the Next
Hitachi, Germany

DISA Service GmbH, Rangsdorf, Germany

DURAG Sales and Marketing GmbH & Co. KG, Hamburg, Germany

E.ON Anlagenservice
E.ON Anlagenservice GmbH, Gelsenkirchen, Germany

Hoffmeier Industrieanlagen GmbH & Co. KG, Hamm, Germany

Jenconsult Laarsdorf Planungs- und Handelsgesellschaft mbH,

Klinger Fluid Control GmbH, Idstein, Germany

KRAFTWERKSSCHULE E.V., Essen, Germany

Sick AG/Sick Engineering GmbH, Ottendorf-Okrilla, Germany

WVT BREIDING GmbH, Schwerte, Germany
Please send the registration form to Rita Höffgen, Fax: +49 201 8128-321 or E-Mail: rita.hoeffgen@vgb.org
Please register before 24 February 2014 (only deadline for nomination in list of participants. Registration at the conference office is also possible!)
Per person a registration form


Detailed information on data protection please refer to the VGB homepage: https://www.vgb.org/en/data_protection:notice.html

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<thead>
<tr>
<th>Surname</th>
<th>First Name</th>
<th>Position/Function</th>
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**Attendance fee per person** [Please mark]  
- [ ] € 740,00 VGB Members  
- [ ] € 980,00 Non-Members  
- [ ] € 200,00 Universities, Public Authorities, Pensioners

Please specify invoice address and cost unit:

| Date | Signature and Company Stamp |

- I will join the **Get-Together** at Villar Haar, Tuesday, March 25, 2014, 18:30 (number of participants is limited)  
- I will join the **one-Hour City Tour** of Weimar, Wednesday, March 26, 2014, 18:00 to 19:00  
- I will join the **Evening Event** at the Weimarhalle, Wednesday, March 26, 2014, from 19:00 to 23:30  
- I will attend the **Technical Visit** of Meeraner Dampfkesselbau GmbH, Friday, March 28, 2014, 09:30 to 14:00 (number of participants is limited)