FLUE GAS CLEANING 2019

22 and 23 May 2019 in Graz/Austria
The workshop covers a wide range of flue gas cleaning activities, especially with a view to the activities for meeting the future emission limits, which are defined in the BREF-LCP process.

Therefore, the workshop starts with an overview of the existing and forthcoming new environmental EU legislation.

The recent developments and experiences with SCR and SNCR techniques play a major role too.

In addition plant retrofits and new developments in FGD performance are presented as well as ESP upgrade possibilities.

At the end some information about emission measurement techniques and experiences with flue gas condensation will be given.

The workshop includes the visit of the Mur Hydropower Plant Graz.
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speakers</th>
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<tr>
<td>10:30</td>
<td>Opening of the conference office / Lunch</td>
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<tr>
<td>11:55</td>
<td>Welcome</td>
<td>Andreas Wecker, VGB PowerTech, Essen/Germany</td>
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<tr>
<td>12:00</td>
<td>Setting up the EU legislative framework for thermal generation</td>
<td>Rémi Bussac, EDF, St. Denis/France, Hélène Lavray, EURELECTRIC, Brussels/Belgium</td>
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<td>12:30</td>
<td>Flue gas treatment: from removal efficiency to energy efficiency</td>
<td>David Boyer, Jérome Giralt, LAB SA, Lyon/France</td>
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<td>13:00</td>
<td>Hybrid SCNR/SCR Denox System – high dust application at a coal-fired power plant</td>
<td>Christian Helmreich, Andreas Anderl, M.A.L. Umwelttechnik Wien, Vienna/Austria</td>
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<td>13:30</td>
<td>Coffee Break</td>
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<td>14:00</td>
<td>Operating experience with SCR direct ammonia injection at Alliant Energy Colombia station</td>
<td>Thomas Gomboc, Paul Petty, Andritz Inc., Colombia/USA</td>
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<td>14:30</td>
<td>Consideration of the transient aspects of SCR and oxidation catalysts for faster startup emissions compliance</td>
<td>Chris Bertole, CORMETECH, Durham/USA</td>
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<td>15:00</td>
<td>SCR catalyst management and minimizing total cost of ownership of SCR installations</td>
<td>Xavier Henry, ENGIE Laborelec, Linkebeek/Belgium</td>
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<td>15:30</td>
<td>SNCR-application of the TWIN-NOx process in large coal-fired boilers to keep pace with new NOx emission limits</td>
<td>Bernd von der Heide, Mehlau &amp; Steinfath Umwelttechnik GmbH, Essen/Germany</td>
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<td>16:00</td>
<td>Coffee Break</td>
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<td>16:30</td>
<td>Use of co-benefits from FGD upgrades example: mist eliminator replacement</td>
<td>Stefan Binkowski, Steinmüller Engineering GmbH, Gummersbach/Germany</td>
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17:00  Execution of first retrofit in Bosnia and Herzegovina: Challenges of performance requirements and project execution  
Bernd Vollmer, Mitsubishi Hitachi Power Systems Europe GmbH, Duisburg/Germany

17:30  Research on alternative construction of perforated shelf  
Mariola Kobylanska-Pawlitz, Jerzy Mazurek, RAFAKO S.A., Racibórz/Poland

18:30  All participants meet in front of the hotel  
Dinner at the restaurant Schlossberg

THURSDAY, 23 MAY 2019

08:30  Todays and future applications of metallic materials in lignite FGD and marine scrubbers  
Volker Wahl, VDM Metals International GmbH, Werdohl, Rolf Streib, Beratungs- u. Ingenieurbüro Dipl.-Ing. Rolf Streib, Bocholt/Germany

09:00  Operating experience of Andritz TurboCDS system at OG&E Sooner station  
Paul Petty, Ralph Lebron, Andritz Inc., Colombia/USA

09:30  Development of the circulating fluidized bed scrubber (CFBS) technology in 1 MWth scale pilot plant  
Mariana Carvalho, Pasi Liimatainen, Vesna Barisic, Sumitomo SHI FVW, Varkaus/Finland

10:00  Coffee break

10:30  Low cost ESP upgrade for BREF compliance  
Mads Kirk Larsen, FLSmidth A/S, Copenhagen/Denmark

11:00  Cost benefit assessment of various flue gas conditioning approaches  
Roger Brandwood, Uniper Technologies Ltd., Ratcliffe-on-Soar/UK

11:30  Coffee break

12:00  Emissions and emission measurement of SO₂, SO₃ and particulates at modern coal-fired power plants  
Jan Middelkamp, DNV GL, Arnhem/The Netherlands, Marten Kooistra, ENGIE Laborelec, Linkebeek/Belgium

12:30  Flue gas condensation – operating experience  
Folmer Fogh, Ørsted Thermal Power A/S, Fredericia/Denmark

13:00  Lunch Break

14:00  Visit Mur Hydropower Plant Graz

17:30  End of the workshop
PRACTICAL INFORMATION

VENUE
Hotel “Das Weitzer”
Grieskai 12-16
8020 Graz/Austria
Phone: + 43 316 703-604
Fax: + 43 316 703-629

ONLINE REGISTRATION
Participants are requested to register online.
We will confirm the registration by mailing the invoice.
You will receive your ticket at the workshop office.

VGB PowerTech e.V.
Ms Ines Moors
POB 10 39 32
45039 Essen/Germany
Phone.: +49 201 8128 – 274
Email: ines.moors@vgb.org

ATTENDANCE
Attendance fee members: € 690.-
Attendance fee non-members: € 890.-

It is not possible to accept credit cards or currency at the workshop office.
The attendance fee includes the workshop programme, the participation list, the documents, coffee and beverages, lunch buffet on 22/23 May 2019.

| ANDRITZ invites all participants arriving on 21 May 2019 for dinner in the Restaurant Landhauskeller.

| The companies
  · Beratungs- u. Ingenieurbüro Dipl.-Ing. Rolf Streib,
  · Lechler GmbH,
  · SZS Engineering,
  · Steinmüller Engineering GmbH and
  · VDM Metals International GmbH

kindly invite the participants of the workshop for dinner on 22 May 2019 in the Restaurant Schlossberg.

| Hadek Protective Systems B.V. kindly sponsors a coffee break.
CANCELLATION
The following fees will be charged for the cancellation of the registration:
Up to 14 days before the workshop 50.00 €
Within 14 days before the workshop 100 %
Only written cancellations are accepted!

ACCOMMODATION
Please book your hotel room by using the reservation code:
FGC2019
and by using the following e-mail:
reservations@weitzer.com
Special room rate: 142 €, breakfast included
Please book your hotel room by 9 April 2019.
The VGB office regrets being unable to make reservations.
The Workshop includes the Mur hydropower plant Graz visit on Thursday 23 May 2019 (50 visitors only!). Transfer via bus from the hotel and back. (Bus transfer sponsored by ANDRITZ.)

PRIVACY POLICY
Your privacy is important to us. This privacy statement explains which personal data we collect and how we use them. VGB PowerTech e.V. and VGB PowerTech Service GmbH collect data via application form. Data may also be collected by using our services. All data are collected and used according to the applicable data privacy laws. Event documents, including booklets etc. comprise a list of all participants, stating name, surname, title, function, company and place of residence of participants. Photographs and films taken during the event will be used in VGB publications, external media and the internet. As our customer, we will also inform you about our services. This communication by e-mail or post is limited to the framework given by the applicable law. If you disagree that VGB PowerTech e.V. and VGB PowerTech Service GmbH use your data for future communications and marketing purposes, please send an e-mail to info@vgb.org or fax, +49 201 8128-302 or mail, VGB PowerTech, Deilbachtal 173, 45257 Essen.
You have also the right of access to the data, stored in respective to your person. Further information on attendance and data protection incl. General Terms and Conditions:

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