

International
Fair of Mining and Power Industry
SILESIA MINING EXPO 2009

FAIR PROGRAMME

Day 1 – Tuesday 1st September 2009

Opening Hours 10.00 a.m.- 5.00 p.m
Opening Ceremony **11.00 a.m.**

Conference Plan

Opening Keynote 9.30. – 11.30

Conference Keynote Speakers:

- Ms Elżbieta Wróblewska, Chief Expert, Ministry of Economy Energy Department
- Jacek Piekacz, Chairman, The Polish Clean Coal Technologies Platform
- Dr. Thorsten Diercks, Secretary General, European Association for Coal & Lignite (Euracoal)

Track A

Session 1 – New Plant 13:30-15:00

Chair: Graham Fagence, Business Development, Hitachi Power Europe, UK

Seven Years on the World's First Commercial Low Mass Flux Vertical Tube Benson Boiler

Mr. Philip Bell, Process Engineer, Doosan Babcock, UK

Implementation of Clean Coal Technology in Russia: Economical Comparison PC and CFB Boilers

Dr. Georgy Ryabov, Chief of Laboratory, All Russian Thermal Engineering Institute, Russia

First Supercritical 460Mwe CFB Boiler – Project Update

Damian Góral, Chief Performance Engineer, Foster Wheeler Energia Polska, Poland

Track B

Session 1 – Upgrades 13:30-15:00

Chair: Ian Unsworth, Regional General Manager, Energy Consulting, Black & Veatch, UK

The Arnot Capacity Increase Project - An Integrated Boiler and Turbine Retrofit - Implementation and Operational Experience

Mr. Mike Davies, Senior Product Specialist, Alstom Power, UK

Co-Authors: Mr. Don Stephen, General Manager, Steam Turbine Retrofits, Alstom Power, UK

Mr. Glyn Rich, Regional Development Manager, Alstom Power, UK

Experiences in Rehabilitation, Efficiency and Environmental Upgrading of Power Plants in Germany and Serbia. Case studies of the Jaenschwalde and the Nikola Tesla A Power Stations.

Ronald Rost, Business Development Manager, Vattenfall Europe PowerConsult GmbH, Germany

Co-Author: Nebojsa Trbojevic, Project Manager, Vattenfall Europe PowerConsult East d.o.o., Serbia

Coal-fired Power Plants in Russia, Kazakhstan and Ukraine: Review of Conditions and Potential for Modernisation

Engr. Cristian Carraretto, Senior Energy Engineer, MWH SpA, Italy

Co-Authors: Engr. Ioannis Papaioannou, Senior Engineer, EBRD, UK

Dr. Tero Mäkelä, Senior Advisor, ÅF-Consult Ltd, Finland

Dr. Hartmut Keller, Senior Project Manager, Vattenfall Europe Power Consult GmbH, Germany

Coffee Break: 15:00 – 15:30

Track A

Session 2 - New Plant 15:30-17:30

Chair: Graham Fagence, Business Development, Hitachi Power Europe, UK

Supercritical and USC: Effect on Dry Cooling Requirement

Mr. András Balogh, President & CEO, GEA EGI Contracting / Engineering Co. Ltd., Hungary

Co-Authors: Mr. Joseph Budik, Business Development Director, GEA EGI Contracting / Engineering Co. Ltd., Hungary

Lignite Coal Fired Power Plants in Germany – Advanced Cooling Technology for Coal Fired Power Plants

Mr. Joerg Torkar, Sales Engineer, GEA Energietechnik GmbH, Germany

SST6000 – USC State of the Art Steam Turbine Technology and Still Proven Design

Dr. Rainer Quinkertz, Product Manager Steam Turbines, Siemens AG, Germany

New Power Plant Siting – Practical Approach at the Polish Context

Mr. Michal Niernsee, Project Manager, CITEC S.A., Poland

Track B

Session 2 – Upgrades 15:30-17:30

Chair: Ian Unsworth, Regional General Manager, Energy Consulting, Black & Veatch, UK

Large Rehabilitation Projects - Case Study from Nikola Tesla, Serbia

Mr. Douglas Spalding, Europe Business Development Manager, Doosan Babcock, UK

Availability Assessment Study for 11 coal-fired Power Plants in South Africa

Mr. Egbert Reinartz, Head of Thermal Power Plant Consulting, RWE Power International, RE GmbH, Germany

Co-Authors: Mr. Matshela Koko, Senior General Manager (Generation Engineering) acting, Eskom Holdings Limited, South Africa

Day 2 Tuesday 2nd September 2009

Opening Hours **10.00 a.m.- 5.00 p.m**

Track A

Session 3 - Fuel Handling 09:00-10:30

Chair: Gereon Thomas, Senior Manager Power Plant Engineering, RWE Power Aktiengesellschaft, Germany

Customisable Fuel Usage and Performance Enhancement through Wear Optimisation of Coal Mills

Mr. Peter Stegelitz, Head of Boiler R&D and Service Mills, Alstom Power, Germany

Advantages of Metering Pulverised Fuel for Improved Boiler Efficiency

Mr Peter Cobham, Group Sales Director, Greenbank Group, UK

Co-Authors: Dr. Jacob Roberts, Project Development Engineer, Greenbank Group, UK

Dr. Jianyong Zhang, Senior Lecturer, University of Teesside, UK

Prof. John Coulthard, Emeritus Professor, University of Teesside, UK

Fit For World Coal

Mr. Karl Harnisch, Project Manager, RWE Power AG, Germany

Co-Author: Mr. Thomas Steinhage, Head of Mill Construction, Babcock Borsig Service GmbH, Germany

Track B

Session 3 – NOx Control 09:00-10:30

Chair: John Goldring, Managing Director, RJM Corporation (EC) Limited, UK

Novel SCR Design Solutions for low NOx Emissions

Mr. Philip Bell, Process Engineer, Doosan Babcock, UK

Recent Field Experiences with the Mark Iii Opti-Flowtm Low NOx Burner in Minimizing Unburned Carbon and NOx

Mr. Stefan Zurek, Project Manager, Siemens Energy Inc., USA

Reducing the Cost of LCPD NOx Compliance

Mr. Douglas Spalding, European Business Development Manager, Doosan Babcock, UK

Co-Author:

Pierangelo Ponzoni, Managing Director, Fueltech SRL, Italy

Coffee Break: 10:30 – 11:00

Track A

Session 4 – IGCC 11:00-13:00

Chair: Gereon Thomas, Senior Manager Power Plant Engineering, RWE Power Aktiengesellschaft, Germany

IGCC Experience and Further Developments to Meet CCS Market Needs

Mr. Jürgen Karg, Head of Business Development IGCC, Siemens AG, Germany

Meeting the Decarbonized Fuel Challenge with Syngas Turbines

Mr. Robert Jones, Syngas Power Island Product Manager, GE Energy, USA

Co-Author: Dr. Jeffeory Goldmeer, 7F/9F Syngas Product Manager, GE Energy, USA

RWE's IGCC Project with CO² Capture and Storage

Dr. Dietmar Keller, Project Manager, RWE Power AG, Germany

Co-Authors: Dr. Johannes Ewers, Head of New Technologies/CCS, RWE Power AG, Germany

Mr. Werner Renzenbrink, Head of Gasification Technology, RWE Power AG, Germany

Mr. Heiko Oppermann, Project Manager, RWE Dea AG, Germany

Concept of Polygeneration power plant- Industry's Response to the Challenge of a Clean Generation

Ms. Magdalena Uliniarz, Senior Assistant, Energoprojekt- Katowice S.A., Poland

Track B

Session 4 – NOx Control 11:00-13:00

Chair: Douglas Spalding, Business Development Manager, Doosan Babcock Energy Limited, UK

Using CFD to Reduce Unburned Carbon during Installation of Low NOx Burners

Mr. John Goldring, Managing Director, RJM International

Co-Authors: Mr. Larry Berg, Senior Program Engineer, Alion Science and Technology, USA

Mr. Lyle Woodard, Project Manager, AES Corporation, Northern Ireland

Operational Parameters of Fluidised Bed Boilers Used in Polish Power Plants

Engr. Jerzy Sobota, A CFB Boilers Expert, Energopomiar, Poland

Evonik's Long-Term Catalyst Operating Experience and Cost

Mr. Ralf Muehlenberg, Sales Europe, Evonik Energy Services GmbH, Germany

NOx Emission Reduction below 200mg/Nm³, using an Optimised Combination of Advanced Combustion Control and Secondary Measures

Engr. Miguel Morales, Engineer. Market Development Manager Process Engineering Division, Inerco, Spain

Co-Authors: Dr. Bogdan Niewczas, Engineer. Prokurent spółki / proxy, Zap kwant sp. Z o.O, Poland

Dr. Francisco Rodriguez, Engineer. Director of Process Engineering Division, Inerco, Spain

Engr. Enrique Tova, Engineer. Technical Manager Process Engineering Division, Inerco, Spain

Engr. Miguel Morales, Engineer. Market Development Manager Process Engineering Division, Inerco, Spain

Engr. Miguel Delgado, Engineer. Product Development Manager Process Engineering Division, Inerco, Spain

Lunch: 13:00 – 14:00

Track A

Session 5 - CCS Policy & Storage Issues 14:00 – 15:30

Chair: Dr. Heather Johnstone, Editor/Conference Director, PennWell, UK

Advanced 800 MW Steam Power Plants and Future CCS Options

Dr. Frank Cziesla, Product Manager Steam Power Plants, Siemens AG, Germany

Co-Author: Dr. Herman Kremer, Program Manager CCS Technologies, Siemens AG, Germany

Risk Management Approach for Coal-Fired Power Plants Portfolio towards a CO² Constrained European Power Market

Dr. Ghazi Kablouti, Global Product Manager CO₂ Solutions, Alstom Power, Switzerland

Co-Author: Mr. Giuseppe Musico, Global Product Manager CO₂ solutions, Alstom Power, Switzerland

Key Engineering Challenges in Geological Storage of CO² (And how the Industry is responding)

Mr. Grahame Smith, Technical Head, Carbon Storage, Senergy Alternative Energy Ltd, UK

Track B

Session 5 – Co-Firing 14:00 – 15:30

Chair: Douglas Spalding, Business Development Manager, Doosan Babcock Energy Limited, UK

Mitigation of Biomass Induced Corrosion Using Thermal Spray Coatings and Sealants

Mr. David Harvey, Surface Engineering, TWI Ltd, UK

Co-Author:

Dr. Melissa Riley, Senior Project Leader, TWI Ltd, UK

Co-firing of biomass in the Netherlands; Status and Opportunities **Mr. Uwe Becker**, Senior Consultant, KEMA Consulting GmbH, Germany

Impact of Biomass-Coal Co-Combustion on SCR DeNOx Operation

Mr. Peter Lindenhoff, Department Head, Environmental Catalysts, Haldor Topsoe A/S, Denmark

Co-Author: Dr. Joakim Reimer Thøgersen, Principal Research Engineer, Haldor Topsoe A/S, Denmark

Coffee Break: 15:30 – 16:00

Track A

Session 6 - CCS Policy & Storage Issues 16:00 – 17:30

Chair: Dr. Heather Johnstone, Editor/Conference Director, PennWell, UK

BRGM Research on CO₂ Sequestration in Coal Seams

Mr. Aurélien Leynet, Engineer, BRGM, France

Co-Authors:

Dr. Didier Bonijoly, Project Manager, CO₂ of Service GÉO, BRGM, France

Dr. Eric Gaucher, Manager of Unit Modeling of the Impact of Major Storages, BRGM, France

Mr. Pierrick M. Défossez D. C., Geochemist Phd Student, BRGM, France

CCS: An Indispensable Solution for CO₂ reduction - Retrofit and CCS-ready

Mr. Jean-François Leandri, CO₂ Product Director, Alstom Management SA, France

Co-Authors: Mr. Philippe Paelinck, Director CO₂ Market, Alstom, France

Sean Black, Product Director Post Combustion, Alstom, USA

Louis Sonnois, CO₂ Market Manager, Alstom, France

'Capture-Ready': A Global Example

Dr. Mike Farley, Vice President, European Power Plant Suppliers Association (EPPSA), Belgium

Track B

Session 6 – Co-Firing 16:00 – 17:30

Chair: Douglas Spalding, Business Development Manager, Doosan Babcock Energy Limited, UK

Torrefaction to Improve the Sustainability of Coal Fired Power Plants in Poland

Dr. Mark Beekes, Account Manager, KEMA, the Netherlands

Co-Author: Mr. Chris Kleinschmidt, Consultant, KEMA, the Netherlands

Analysis of Accumulated Energy Consumption In Process Of Acquiring and Co-Firing Biomass in Heat and Power Plants

Dr. Jaroslaw Zuwala, Vice Director, Institute for Chemical Processing of Coal, Poland

Co-Author: Prof. Andrzej Ziebig, Professor, Institute of Heat Technology Silesian University of Technology, Poland

TORSPYD Biomass Torrefaction - The New BIOCOAL

Mr. Xavier Dhubert, Consultant, NEXA-industries, France

Co-Author: Mr. Herve Chaiuvin, President, THERMYA SA, France

Day 3 - Thursday 3rd September 2009

Opening Hours **10.00 a.m.- 5.00 p.m**

Track A

Session 7 – Oxy Fuel 09:00 – 10:30

Chair: Jean-François Leandri, CO₂ Product Director, Alstom Management SA, France

Paper Title to be confirmed

Mr. Staffan Görtz, Head of Communication on CCS, Vattenfall, Poland

Modeling and Testing of the 40 MWT Oxycoal™ Burner

Mr. Angus Duncan, Senior Engineer R&D, Doosan Babcock, UK

Co-Authors: Mr. Safwan Yousif, Senior Project Engineer, Doosan Babcock, UK

Mr. Euan Cameron, Engineer - R&D, Doosan Babcock, UK

Mr. J Mitchell, Engineer, Scottish and Southern Energy Ltd, UK

Oxy-combustion Technology – Large scale demonstration plants

Mr. Frank Kluger, Head of Department, Alstom, Germany

Co-Authors: Dr. Nsakala ya Nsakala, Principal Consulting Engineer, Alstom, US

Mr. Scott Darling, Product Director CFB, Alstom, US

Mr. Jean-Francois Leandri, Product Director Oxy-Combustion, Alstom, France

Track B

Session 7 – SO_x & PM Control 09:00 – 10:30

Chair: John Goldring, Managing Director, RJM Corporation (EC) Limited, UK

Rybnik Power Station - Beating European Emission Targets with New FGD Plant

Mr. Christian Patterer, Process Engineer, Austrian Energy & Environment, Austria

Co-Authors: Mr. Antoni Korus, Project Manager, Elektrownia Rybnik S.A., EDF Group, Poland

Mr. Janusz Mojzeszek, Power Engineering Deputy Director, Polimex Mostostal S.A., Poland

Dr. Harald Reissner, Head of Process Technology, Austrian Energy & Environment, Austria

Use of Low-Low Temperature ESPs to Collect Difficult Fly Ash

Dr. Andreas Bäck, Technology Manager for ESPs, Alstom, Sweden

PEGO Project Experience - Excellence in the Integration of SCR and WFGD Solutions

Ms. Miki Adderley, Marketing Manager, Alstom Power Environment, Italy

Coffee Break: 10:30 – 11:00

Track A

Session 8 – Post Combustion Capture 11:00 – 13:00

Chair: Jean-François Leandri, CO₂ Product Director, Alstom Management SA, France

Commercialising Carbon Capture Technology

Mr. Matthew Hunt, Business Development Manager, Doosan Babcock Energy, UK

Co-Authors:

Scott A Hume, Senior Process Engineer, Doosan Babcock, UK

David Fitzgerald, R&D Group Leader, Doosan Babcock, UK

Status of Alstom's Development of Post-Combustion CO₂ Technologies

Mr. Philippe Paelinck, Director CO₂ Business Development, Alstom, Switzerland

Co-Authors: Mr. Michael Pontbriand, CO₂ Amine Product Manager, Alstom, USA

Mr. Larry Czarnecki, Programme Manager for Advanced Amine, Alstom, USA

Mr. Fred Kozak, Programme Manager for Chilled Ammonia, Alstom, USA

Mr. David Muraskin, Chief Design Engineer for Chilled Ammonia, Alstom, USA

Investigations of the CO₂ Capture and Storage in Russia

Dr. Ryabov Georgy, Chief of Laboratory, All Russian Thermal Engineering Institute, Russia

Impact of the CO₂ Scrubber on the Concept and Performance of the Overall Plant

Mr. Wolfgang Schreier, Managing Director, Hitachi Power Europe GmbH, Germany

Co-Authors: Dipl.-Ing Vanessa Kubacz, Manager Process Engineering, Hitachi Power Europe GmbH, Germany

Dipl.-Ing. Alexander Deierling, Manager Process Engineering, Hitachi Power Europe GmbH, Germany

Track B

Session 8 – SO_x & PM Control 11:00 – 13:00

Chair: John Goldring, Managing Director, RJM Corporation (EC) Limited, UK

NID for Power - A Reliable DeSO_x Solution for Smaller Power Plants

Mr. Bo Herrlander, Market Manager, Alstom, Sweden

Turbosorp® - Dry Flue Gas Desulphurization Process Successfully Installed in Coal Fired Power Plants of > 2000 MWEL Total Capacity

Dr. Christian Brunner, Senior Process Engineer, AE&E AUSTRIA GmbH & Co KG, Austria

Co-Author: Dr. Harald Reissner, Head of Process Technology, AE&E AUSTRIA GmbH & Co KG, Austria

How Romania is reducing the Pollutant Emissions of Flue Gases

Engr. Claudia Eudora Tomescu, Deputy Head of Environmental Engineering, Department Institute for Studies and Power Engineering

Co-Author: Dr. Constantin Carmencita, Directeur of Energy and Environmental Division, Institute for Studies and Power Engineering, Romania

Selenium Removal in FGD Wastewater using GE's ABMet Biotechnology

Frans Durieux, Commercial Developer, GE Water & Process Technologies, The Netherlands

Co-Authors: Mrs. Jill Sonstegard, Microbiologist, GE W&PT, USA

Mr. James Harwood, Global commercial leader ABMet, GE W&PT, USA

Mr. Tim Pickett, Senior product manager, GE W&PT, USA

CONFERENCE : “The best available techniques for power industry”

9⁰⁰ – 9¹⁵ Conference Opening – SILEA Association (conference’s origin, organization and programme, conference materials)

9¹⁵ – 10⁴⁵ Track A – Future law and new methods of analysis and design.

10⁴⁵ – 11⁰⁰ Coffee Break

11⁰⁰ – 12⁴⁵ Track B – Diagnostics and Modelling

12⁴⁵ – 13⁰⁰ Coffee Break

13⁰⁰ – 14⁴⁵ Track C – Innovative Systems

14⁴⁵ – 15⁰⁰ Coffee Break

15⁰⁰ – 16⁴⁵ Track D Innovative Devices

16⁴⁵ – 17⁰⁰ The End of the Conference - SILEA Association (invitation to the conference and workshop 18th September, 2009)

Day 4 - Thursday 4th September 2009

Opening Hours **10.00 a.m.- 4.00 p.m**