Programme
Sunday 17 May – Thursday 21 May
Maritim Congress Center

**Sunday**

<table>
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<tr>
<th>Time</th>
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<tr>
<td>15:00–20:00</td>
<td>Registration in the Foyer</td>
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<tr>
<td>19:00–22:00</td>
<td>Welcome reception on the Terrace – hosted by the Federal Ministry of Economics and Technology and the Saxony State Ministry for Economic Affairs and Labour</td>
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**Monday**

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>8.30–09.00</td>
<td>GROSSER SAAL – Opening Ceremony and Welcoming Addresses by Jürgen-Friedrich Hake, Forschungszentrum Jülich, and Prof. Bernd Meyer, TU Bergakademie Freiberg</td>
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<tr>
<td>09.00–10.00</td>
<td>GROSSER SAAL – Keynote Session I – Chair: Adolf Aumüller</td>
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Address by Jochen Homann, State Secretary, Federal Ministry of Economics and Technology, Germany

Mr. Jochen Homann serves as State Secretary at the German Federal Ministry of Economics and Technology since February 2008. His areas of responsibilities include energy policy, industrial policy and technology policy. Before 2008 Mr. Homann filled different positions in the Ministry and worked at several institutions such as the Federal Chancellery and the Permanent Representation of the Federal Republic of Germany to the European Community in Brussels.

Address by Nobuo Tanaka, Executive Director, International Energy Agency

Mr. Nobuo Tanaka took over as Executive Director of the IEA on 1 September 2007. He has extensive national government and international experience within the Ministry of Economy, Trade and Industry in Tokyo, the Embassy of Japan in Washington, D.C. and the OECD.

Mr. Tanaka was responsible for Japan's involvement with the IEA and the G7 Energy Ministers' meeting during the second oil crisis, helped establish the comprehensive energy policy of Japan, oversaw the implementation of Japan's international nuclear energy policy and co-ordinated domestic environment and energy policy during the Kyoto COP3 negotiation. He served as a Minister for Industry, Trade and Energy at the Embassy of Japan in Washington, D.C. from 1996 to 2000. Prior to joining the IEA, Mr. Tanaka was Director for Science, Technology and Industry at the OECD.

Mr. Tanaka has a degree in Economics from the University of Tokyo and an MBA from Case Western Reserve University in Cleveland, Ohio. He and his wife, Gloria, have two children.

Address by Heinz Hilbrecht, Director 'Security of Supply and Energy Markets', DG TREN, European Commission

Heinz Hilbrecht is, since April 2006, director for “Security of Supply and Energy Markets” within the Directorate General for Energy and Transport of the European Commission. His Directorate developed the Commission's Strategic Energy Reviews of January 2007 and November 2008 outlining a common approach for the energy policies of the Union, and more specifically, also in November 2008, a green paper for the development of trans-European energy infrastructures, a report on security of gas supply, and a revision of the oil stocks directive. His directorate is also responsible for the ‘Third Package’ for the internal gas and electricity markets, which is now passing the legislative process in European Parliament and Council.

CCT2009 is being held under the patronage of the German Federal Ministry of Economics and Technology

organised by IEA Clean Coal Centre, Forschungszentrum Jülich and the IEC – Institute of Energy Process Engineering and Chemical Engineering at TU Bergakademie Freiberg

with support from the Technical University of Dresden

and sponsorship from Vattenfall, Saxony State Ministry for Economic Affairs and Labour, RWE, VGB and Siemens

**SPECIAL INVITATION**

The Saxony State Ministry for Economics and Labour invites all delegates to a concert of music for trumpet and organ in the Frauenkirche on Monday 18 May from 21:00 until 22:00.

Entrance is through Door F from 20:30. Your conference badge is your ticket for this event.
Monday's Programme

08.30–09.00 Grosser Saal – Opening Ceremony and Welcoming Addresses by Jürgen-Friedrich Hake, Forschungszentrum Jülich, and Prof. Bernd Meyer, TU Bergakademie Freiberg

09.00–10.00 Grosser Saal – Keynote Session I – Chair: Adolf Aurüller
Address by Joachim Hassert, State Secretary, Federal Ministry of Economics and Technology, Germany
Address by Nobuo Tanaka, Executive Director, International Energy Agency
Address by Heinz Hilbrecht, Director ‘Security of Supply and Energy Markets’ DG TREN, European Commission

10.00–17.30 Saal 4 Posters (see board outside Saal 4)

10.10–10.30 Coffee Break in the Foyer and Saal 4

10.30–12.10 Grosser Saal Gasification Technologies Chair: Georg Cau
Saal 1 IGCC – Experience and Progress Chair: Kelly Thambimu
Saal 2 Carbon Capture Issues Chair: Barry McCall

10.30–10.50 The CCG® technology of CHOREN / Dr. Christoph Kienzer – CHOREN Industries GmbH [Germany]
ELCOCAS: R&D activities towards zero emissions IGCC-plants / Mr. Francisco Garcia ELCOCAS, S.A. [Spain]
CO2 capture ready plants / Mr. John Davison – IEAGreenhouse Gas R&D Programme [United Kingdom]

Technology advances in IGCC with CCS / Dr. Mark Prins – Shell Global Solutions [Netherlands]
Social acceptance of carbon capture and storage in Germany / Dr. Diana Schumann – Forschungszentrum Jülich [Germany]

11.10–11.30 Outline of options for waste liquidation through gasification / Ph.D. Petri Mika – Sokolovska uhelná, prívazne nastupuje, a.s. [Czech Republic]
Towards 2nd generation of IGCC plants: Nuon MAGnum multi-fuel power plant / Robert de Kler – Nuon [Netherlands]
CCS in the United States 1998-2008: from resistance to acceptance to support / Ms. Naomi Pena – Jooitneum Research [Australia]

11.30–11.50 Lurgi’s FBDB gasification – recent developments and project updates / Max-Michael Weiss – Lurgi GmbH [Germany]
TECO today: an IGCC design improvement case study / Klaas Paykhuiberg – GE Energy (Austria)
Emission trading; incentive or obstacle to funding of carbon capture and storage demonstration projects / Mr. John Kassels – IEA Clean Coal Centre [United Kingdom]

11.50–12.00 17 years of experience gained from three gasification plants operating in Italy / Mr. Vincenzo Fabio Costicostato – Sapom [Italy]
Application of possible efficiency upgrades to existing coal-fired power plants / Ms Deborah Adams – IEA Clean Coal Centre [United Kingdom]

12.10–13.40 Lunch in Saal 5

Saal 1 IGCC – Engineering and Economic Evaluation Chair: Hans-Joachim Meier
Saal 2 XL Technologies Chair: Leslie Stois
Saal 3 Combustion and Chemical Looping Chair: Franz Klimm

EPRI IGCC engineering and economic evaluations / Neville Holt – EPRI [United States]
An alternative route of coal to liquids (CTL) applying methanol to gasoline (MTG) technology / Max Heinritz-Adrian – Uhde GmbH [Germany]

14.00–14.20 Performance analysis of updraft coal gasifiers fed by oxygen with steam, CO2, or recirculated syngas mixtures / Ing Vittorio Tola – Department of mechanical Engineering, University of Cagliari [Italy]
IGCC power plants with and without CCS – developments to meet market needs / Juergen Karg – Siemens AG Energy Sector [Germany]
From coal gas to liquid product. The Topsoe TIGAS technology / Prof. Erik Højlund Nielsen – Haldor Topsoe A/S [Denmark]

14.20–14.40 Linking laboratory scale gasification data with coal performance in a pilot scale gasifier / Dr. David Harris – CSIRO Energy Technology [Australia]
Large scale CCS demonstration – status and outlook of RWE’s 450 MW IGCC project Werner Renzenbirk – RWE Power AG [Germany]
Technical and economic assessment of a small scale steam hydrogasification process with Fischer-Tropsch liquids facility with a coal- wood feedstock / Dr. Chan Seung Park – University of California, Riverside [United States]

14.40–15.00 Investigation of trace compound formation in a partial oxidation reaction process / Philipp Brüggemann – Technische Universität Dresden [Germany]
High integrative, CO2 negative, high efficient power generation from ash rich biomass in power plants of 10 MW and coupled with production of algae based bio oils as well as black earth (dark soil) avoiding effluents at Hainhaus/Dennheim / Prof. Dr. Andreas Horning – Aston University [United Kingdom]

15.00–15.20 Experimental tests in the Sotacarbo laboratory scale coal-to-hydrogen plant / Dr. Alberto Pettinai – Sotacarbo S.p.A. [Italy]
The scientific payoffs and their applications in direct coal liquefaction / Mr Xiaosu Zhu – Coal Liquefaction Division, Beijing Research Institute of Coal Chemistry [China]
The large scale CCS demonstration – status and outlook of RWE’s 450 MW IGCC project Werner Renzenbirk – RWE Power AG [Germany]
The scientific payoffs and their applications in direct coal liquefaction / Mr. Xiaosu Zhu – Coal Liquefaction Division, Beijing Research Institute of Coal Chemistry [China]

15.20–15.50 Coffee Break in the Foyer and Saal 4

15.50–17.50 Grosser Saal Biomass- and Co-gasification Chair: Stefan Kracke
Saal 1 IGCC – Concept Studies Chair: Chris Higman
Saal 2 Carbon Capture – Engineering and Economic Evaluation Chair: Debo Adams
Saal 3 National Research and Development Programmes Chair: Dubravka Bulat

15.50–16.10 Entrained flow gasification to convert biomass into synthesis gas / Matthias Rudolf – CHOREN Industries [Germany]
The impact of concept simplification on performance and economics of IGCC power plants with carbon capture (IGCC-C/C) / Mathias Rieger – FE-FreiRäumig Energy Consultants GmbH [Germany]
Optimized post combustion capture technology for power plants / Torsten Stoffregen – Linde-KGA-Dresden GmbH [Germany]
CCS R&D, demonstration and large scale projects in Norway / Trygve Ris – The Research Council of Norway [Norway]

16.10–16.30 Syngas production from biomass / Ir. Ruben Smil – Energy Research Centre of the Netherlands [Netherlands]
Simulation of a base case for future IGCC concepts with CO2 capture / Dipl.-Ing Christian Kurza – TU Munich [Germany]
Drivers and challenges for flexible operation of pulverised coal power plants with CCS / Ms Hannah Chalmers – Imperial College London [United Kingdom]
COORETEC: The German R&D Initiative for Clean Coal Technologies / Dr. Arne Hoell – BMWi [Germany]

16.30–16.50 Steam hydrogasification based conversion of coal and biomass using the Viresco technology / Mr. Jim Guthrie – Viresco Energy LLC [United States]
Hydrogen and electricity co-production schemes based on gasification processes with carbon capture and storage / PES Eng. Carlos Cristian Coromos – Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering [Romania]
Retrofitting study of a 350 MW hard coal fired power plant with post combustion capture; optimal design parameters for minimizing the energy penalty / Dr. Gerald Kinger – EVN AG [Austria]

16.50–17.10 Pressurised gasification of coal and biomass for the production of H2-rich gas / Dr Fernando Rubiera – Instituto Nacional del Carbón (INIC) [Spain]
BO2 technology for biomass upgrading into solid fuel – an enabling technology for IGCC and gasification-based BTL / Dr. Jaap Kiel – ECN [Netherlands]
Life cycle assessment of pulverised coal power plants with and without CO2 post-combustion capture; transport and storage / Valentina Giovannangelo – Uniwaq Omeg [Italy]
CCS R&D in France / Bernard Freis – GÉOTECHNOLOGIE / CNRS / CERTIF [France]

17.10–17.30 Investigations about cofiring of herbaceous biomass in an integrated gasification combined cycle / Johannes Judes – Institute for Agricultural Engineering, University of Agricultural Science [Switzerland]
CO2 storage in Germany – the R&D programme GÉOTECHNOLOGIE / Dr. Ludwig Stroink – GEOTECHNOLOGIE / Co-ordination Office [Germany]

21.00–22.00 Concert of music for Trumpet and Organ at the the Frauenkirche. Enter by Door F, from 20.30, sponsored by
Tuesday's Programme

08:30–10:00  Grosse Saal – Keynote Session II – Chair: Antonio Pfitger

Geological storage of CO₂: current status and issues to be resolved / Mr John Gale - IEA Greenhouse Gas R&D Programme [United Kingdom]
Carbon capture and storage: a solution for sustainable energy supply / Dr Nicolai Vortmeyer - Siemens Energy [Germany]
Advances in materials research for CCS / Dr Lorenz Singheiser - Forschungszentrum Jülich [Germany]

10:00–15:50  Saal 4 Posters (see board outside Saal 4)

10:30–10:50  Grosse Saal – Gasification – Special Applications
Chair: Peter Sallert

Investigations on high temperature gasification and gas cleaning - The research project HotGas / Prof. Dr.-Ing. Hartmut Spillehoff - TU München [Germany]
A compact granular bed particle filter for high temperature syngas gases / Kavitha Pathmanathan - Norwegian University of Science and Technology [Norway]
Novel filtration system and regime for removing particulates from gas at high temperatures and pressures / Dr Sunil Sharma - CSIRO [Australia]

10:50–11:10  Numerical modelling of partial oxidation processes / Markus Rehm [Germany]

Novel filtration system and regime for removing particulates from gas at high temperatures and pressures / Dr Sunil Sharma - CSIRO [Australia]

11:10–11:30  Two-dimensional CFD model of air-blown coal updraft gasifier / Ph.D. Michèle Vascello - Department of Mechanical Engineering Cagliari (Italy)

Modelling of countercurrent gasifier: one dimensional Thermodynamic modelling of the BGL-gasification process with particular consideration of alkali metals / Dipl.-Ing. Stefan Guti - Technical University Bergakademie Freiberg [Germany]

11:30–11:50  Integration of a CO₂ separation process in a coal fired power plant / Christina Stankewitz - TU Dortmund [Germany]

Is oxyfuel combustion an option for gas turbines? / Dr. Peter Kufner - Deutsches Zentrum für Luft- und Raumfahrt e.V. [Germany]

11:50–12:00  Mathematical model of the partial oxidation of particulate for the modelling of synthesis gas production / Priv.-Doz. Dr. Rüdiger Eversen

Experimental investigation and numerical simulation of CO-to-CO₂ shift conversion for enrichment in hydrogen of syngas from air-blown up-draft coal gasifiers / Stefano Murgia - Department of Mechanical Engineering, University of Cagliari [Italy]

12:10–13:40  Lunch in Saal 5

Chair: David Harris

Progress with underground coal gasification (UOG) / Mr Gordon Couch - IEA Clean Coal Centre [United Kingdom]
Stepwise extension of a gas cleanup for IGCC application / Lars Kirchner - Linde Engineering [Germany]
Experimental tests on a high temperature H₂S removal bimetallic system / engineer Caterina Frau - SOTACAPRO [Italy]

14:00–14:20  Experimental study on running of underground coal gasification power generation system / Prof. PhD. Chuantong Li - Nanjing Normal University [China]

RTE/Eastman warm sync gas capture technology: integration in power and chemical production applications / Markus Lesemann [United States]
Experimental tests on a high temperature H₂S removal bimetallic system / engineer Caterina Frau - SOTACAPRO [Italy]

14:20–14:40  Latrobe Urea Project - Challenges posed from using lignite feedstock / Dr David Crane - Latrobe Fertilisers Limited [Australia]

The operational experience and market potential for the production of blue ammonia in Taiwan / Wei Cheng Chen - Industrial Technology Research Institute (ITRI) [Taiwan, Republic of China]

14:40–15:00  Sulphur capturing during a fixed-bed gasification process of coal / Mr Pat Sihkonde - Sasol Technology R&D [South Africa]

Integrations of studies of post-combustion CO₂ capture / Dr. Zoya Rana - Indian Institute of Technology del Carbon (INCAR) [Spain]

15:00–15:20  Simulation and integration of a carbon loop system for CO₂ capture in existing power stations / Dr Ramon Murillo - CSIC [Spain]

Performance of a fluidized bed gasifier under oxy fuel conditions / Nicolas Speijl - Imperial College London [United Kingdom]

15:20–15:50  Grosse Saal – Gasification – Special Applications
Chair: Hartmut Spillehoff

A simplified model of a fixed bed counter current gasifier / Prof. Giampaolo Mura - Università di Cagliari [Italy]
Investigation of potential alkali getters for gasification using a new high temperature pressurised simultaneous thermal analyzer (STA) / Franz Haut - TU München [Germany]
Development of halide removal sorbent for hot gas cleaning technology / Dr. Makoto Higuchi - National Institute of Technology, Ueda College [Japan]

15:50–17:50  Grosse Saal – Gasification – Special Applications
Chair: Fernandez Robles

Saal 1  Gas Treatment – Desulphurisation
Chair: Andreas Münchener

Redesigning the cold end of a lignite power station for CO₂ capture / Tretin Harkin - Cooperative Research Centre for Greenhouse Gas Technologies (CO2CRC) [Australia]
Laboratory investigations of polyamine solvents for CO₂ scrubbing from flue gases / Konrad Bretch - Universität Stuttgart - IVD [Germany]
Carbon adsorbents for post-combustion CO₂ capture / Dr. Gonzalo Garcia-Labiano - Instituto de Carbono (ICAS) [Spain]

16:10–16:30  Thermodynamic modelling of the BGL-gasification process with particular consideration of alkali metals / Dipl.-Ing. Stefan Guti - Technical University Bergakademie Freiberg [Germany]

Development of halide removal sorbent for hot gas cleaning technology / Dr. Makoto Higuchi - National Institute of Technology, Ueda College [Japan]
Experimental study of coal combustion clean power technology / Dr. Robert S. Whitney - CRC Energy [New Zealand]


Thermodynamic study assessment of mitigation strategies of NOx from the LINZ and NKCG SOFC anodes operating on gasification syngas / Dr. Matthias Linnenberg - Austrian Energy [Austria]
Experimental studies on CO₂ desorption from amine solutions / Paula Galindo Cifre - Universidade de Lisboa [Portugal]


Thermodynamic study assessment of mitigation strategies of NOx from the LINZ and NKCG SOFC anodes operating on gasification syngas / Dr. Matthias Linnenberg - Austrian Energy [Austria]
Experimental studies on CO₂ desorption from amine solutions / Paula Galindo Cifre - Universidade de Lisboa [Portugal]

17:10–17:30  Transient behavior of a fixed bed countercurrent gasifier: one dimensional modelling / M Brundu - Università degli studi di Cagliari [Italy]

Successful completion of the development and testing of a coal to fuel cell grade hydrogen technology package for New Zealand / Dr. Robert S. Whitney - CRC Energy [New Zealand]
Experimental study of integrations of studies of post-combustion CO₂ capture / Dr. Zoya Rana - Indian Institute of Technology del Carbon (INCAR) [Spain]

17:30–17:50  Fluidised bed methanation technology for improved production of SYN gas from coal / Dr. Serge M.A. Boliaux - Paul Scherrer Institut (PSI) [Switzerland]

Performance analysis of coal gasification processes integrated with high temperature fuel cells and gas turbine hybrid power plants / Ing. Vittorio Todò - Department of mechanical Engineering, University of Cagliari [Italy]
Fluidised bed methanation technology for improved production of SYN gas from coal / Dr. Serge M.A. Boliaux - Paul Scherrer Institut (PSI) [Switzerland]

Commercial demonstration of oxy-coal combustion clean power technology / Mr. Nicolas Perrin - Air Liquide [France]

Modelling of partial oxidation gasification and gas cleaning processes / Prof. Dr.-Ing. Hartmut Spillehoff - TU München [Germany]

Experimental study of CO₂ desorption from amine solutions / Paula Galindo Cifre - Universidade de Lisboa [Portugal]

Numerical investigation and numerical simulation of CO-to-CO₂ shift conversion for enrichment in hydrogen of syngas from air-blown up-draft coal gasifiers / Stefano Murgia - Department of Mechanical Engineering, University of Cagliari [Italy]

18:00–20:00  Conference Dinner, hosted by VATTENFALL

20:00–23:00  Session Dinner, hosted by VATTENFALL
### Wednesday’s Programme

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<td>Saal 1</td>
<td>International and Regional Perspectives</td>
<td>Chair: Rob Whitney</td>
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<td>08.50–09.10</td>
<td>Saal 2</td>
<td>Carbon Capture Technologies (IV)</td>
<td>Chair: Hannah Chalmers</td>
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<td>08.50–09.10</td>
<td>Saal 3</td>
<td>Oxyfuel Combustion (IV)</td>
<td>Chair: Alfons Kather</td>
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<td>09.10–09.30</td>
<td>Saal 2</td>
<td>E.ON’s strategy to a low carbon future</td>
<td>Chair: Christian Folke</td>
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<td>Saal 3</td>
<td>Modelling of total plants including</td>
<td>Chair: Reiner Pawelek</td>
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<td>gas washing using the simulation</td>
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<td>tool EBSILON®Professional</td>
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<td>09.30–09.50</td>
<td>Saal 2</td>
<td>China’s coal fired electric power</td>
<td>Chair: Andrew Minchener</td>
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<td>sector challenges and opportunities</td>
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<td>/ Dr. Andrew Minchener - IEA Clean</td>
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<td>Coal Centre (United Kingdom)</td>
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<td>09.30–09.50</td>
<td>Saal 3</td>
<td>Technical evaluation of CO₂</td>
<td>Chair: Renzo Castillo</td>
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<td>compression and purification in CO₂</td>
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<td>CCS power plants / Mr. Reifshottt -</td>
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<td>Forschungszentrum Jülich (Germany)</td>
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<td>09.50–10.10</td>
<td>Saal 2</td>
<td>Pre-engineering study for a 700 deg</td>
<td>Chair: Hans-Joachim Meier</td>
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<td>C high efficient PC-power plant /</td>
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<td>Dipl. Ing. Hans-Joachim Meier - VGB</td>
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<td>PowerTech e.V. (Germany)</td>
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<td>10.10–10.30</td>
<td>Saal 3</td>
<td>The global comeback of coal-to-liquids</td>
<td>Chair: Daniel Vallentin</td>
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<td>(CTL) technologies - the impact of</td>
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<td>CCS on the economic and environmental</td>
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<td>performance of CTL - M.Sc. Daniel</td>
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<td>Vallentin - Wuppertal Institute for</td>
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<td>Climate, Environment, Energy (Germany)</td>
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<td>10.30–11.00</td>
<td>Saal 2</td>
<td>ecoENERGY technology initiative</td>
<td>Chair: Dubravka Bulut</td>
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<td>demonstration projects / Mrs Dubravka</td>
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<td>Bulut - Natural Resources Canada</td>
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<td>11.00–12.30</td>
<td>Großer Saal</td>
<td>Keynote Session III and Closing</td>
<td>Chair: Johannes Heithoff</td>
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<td>Ceremony</td>
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<td>12.30–14.00</td>
<td>Saal 1</td>
<td>Lunch in Saal 5</td>
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<tr>
<td>14.00–16.00</td>
<td>Saal 3</td>
<td>Technical Visit TU Bergakademie Freiberg</td>
<td>Dresden University of Technology</td>
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### Thursday’s Programme

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<th>Session Title</th>
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<tr>
<td>09.00–14.30</td>
<td>Saal 3</td>
<td>Technical Visit Schwarze Pumpe 30 MW oxyfuel pilot plant</td>
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**Restaurant**

**Registrations, Exhibition and Refreshments**

**Saal 1**

**Saal 2**

**Saal 3**

**Großer Saal**

**Posters and Refreshments**

**Saal 4**

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