

The eighth international conference on Clean Coal Technologies



Monday 8 May – Welcome Reception, Palazzo de Candia, Cagliari – 18.00 – 20.30

Tuesday 9 May – Conference Day 1

Room 1	Room 2	Room 3
Registration – 8.00 – 9.00		
Welcome – 9.00 – 9.30 Sotacarbo Region of Sardinia		
Keynote session I – 9.30 – 10.30		
Jean-Francois Gagné – Head of Energy Technology Policy, International Energy Agency Paul McElhinney – CEO, GE Power Services		
Coffee break – 10.30 – 10.50		
<p>Power plant – 10:50 – 12.30 <i>MHPS's Activity for Clean Coal Technologies</i> by: Yasuhiro Yamauchi (Mitsubishi Hitachi Power Systems, LTD.)</p> <hr/> <p><i>Adaptions of Polish Coal Fired Power Plants to Meet Existing (IED) and New Emission Limits (BAT conclusions/ BREF) based on Patnow Power Plant.</i> by: Robert Žmuda (SBB ENERGY S.A.)</p> <hr/> <p><i>Plasma Igniters - Improve Merit Order with reduced Start up costs</i> by: Marcus Whitworth (GE Power AG)</p> <hr/> <p><i>Cost and Performance Baseline for Fossil Energy Plants – Comprehensive Overview of Cases, Current Results, and Future Plans</i> by: Jeff Hoffmann (US Department of Energy National Energy Technology Laboratory)</p> <hr/> <p><i>Beneficial Effects of Dry Bottom Ash Extraction and Recycling in Modern PCF Power Plants</i> by: Daniele Ricci (Magaldi Power S.p.A.)</p>	<p>Biomass I – 10:50 – 12.30 <i>Co-firing high ratio of woody biomass with coal in a 150-MW pulverized coal boiler : Properties of initial deposits and the effect on tube corrosion</i> by: Dedy Eka Priyanto (IHI Corporation)</p> <hr/> <p><i>Nitrogen partitioning during pyrolysis and combustion of biomass fuels</i> by: Juan Riaza (University of Edinburgh, UK)</p> <hr/> <p><i>Biomass-coal blends behavior under different atmospheres using thermogravimetric analysis and mass spectrometry (TA-MS)</i> by: Iñigo Rodilla (CIEMAT)</p> <hr/> <p><i>Briquettes from Sugarcane Crop Residue as potential fuel for co-firing biomass-coal at the South West Colombian Region</i> by: Jesus Agualimpia (Universidad del Valle, Colombia)</p> <hr/> <p><i>Phosphorus transformation characteristics during co-firing of municipal sewage sludge and cotton stalk</i> by: Qiangqiang Ren (Institute of Engineering Thermophysics, Chinese Academy of Sciences)</p>	<p>Chemical looping I – 10:50 – 12.30 <i>Dynamic simulation of fluidized bed chemical looping combustion process with iron based oxygen carrier</i> by: Ana-Maria Cormos (Babes-Bolyai University, Faculty Chemistry and Chemical Engineering, Romania)</p> <hr/> <p><i>Performance of Mn-Fe-based Oxygen Carriers in Coal Combustion by iG-CLC and CLaOU processes.</i> by: Juan Adánez (Instituto de Carboquímica (CSIC))</p> <hr/> <p><i>Selecting a Low-cost Oxygen Carrier in Southwestern Colombia, and its use in the Insitu Gasification Chemical Looping Combustion Technology</i> by: Carmen Rosa Forero (Universidad del Valle, Colombia)</p> <hr/> <p><i>Reduction Kinetic Studies of Indian Ilmenite as Oxygen Carrier for Chemical Looping Combustion</i> by: Prabakaran Viswanathan (Indian Institute of Technology Madras, India)</p> <hr/> <p><i>Reaction mechanism study of methane and Ni-based oxygen carrier for chemical looping reforming</i></p>

		by: Xin Guo (Huazhong University of Science and Technology, China)
Lunch – 12.30 – 13.30		
<p>Power plant operation – 13.30 – 15.10 <i>Optimization of coal and combustion air distribution</i> by: Kang (Korea Southern Power)</p> <hr/> <p><i>Supercritical power plant–life assessment methodology and a case study</i> by: Saravana Bavan Balakrishnan (WSP Parsons Brinckerhoff)</p> <hr/> <p><i>Firing straw and other fuels at the Avedøre power plant Unit 2.</i> by: Niels Houbak (Ramboll Energi, Power, Denmark)</p> <hr/> <p><i>Predictive method for low load off design operation of a lignite fired power plant</i> by: Konstantinos Atsonios (Centre for Research & Technology Hellas / Chemical Process & Energy Resources Institute (CERTH/CPERI))</p> <hr/> <p><i>Four-vortex circuit of pulverized coal combustion</i> by: Igor Anufriev (Institute of Thermophysics SB RAS (Novosibirsk, Russia))</p>	<p>Biomass and industrial CCS 13.30 – 15.10 <i>Bio-energy with carbon capture and storage (BECCS): Opportunities for efficiency improvement</i> by: Mai Bui (Imperial College London, UK)</p> <hr/> <p><i>Modeling and economic evaluation of carbon capture and storage technologies integrated into coal and biomass MTG plants</i> by: Claudia Bassano (ENEA)</p> <hr/> <p><i>Carbon capture and utilisation technologies applied to energy conversion systems and other industrial applications</i> by: Calin-Cristian Cormos (Babes-Bolyai University Cluj-Napoca, Romania)</p> <hr/> <p><i>Process analysis of co-firing of coal and biomass in a power generation system integrated with CO2 capture and compression system</i> by: Usman Ali (University of Sheffield, UK)</p> <hr/> <p><i>Assessing ch4 desorption potential of selected south african coals through simulation of supercritical co2 injection using comsol multiphysics</i> by: Kasturie Premlall (Tshwane University of Technology, South Africa)</p>	<p>Combustion studies – 13.30 – 15.10 <i>Solid fuels co-combustion modelling in a stoker furnace</i> by: Ewa Marek (University of Nottingham, UK)</p> <hr/> <p><i>A study of the relationships between the micro-Raman spectral parameters and the combustion characteristics of 32 kinds of Chinese coal</i> by: Jun Xu (Huazhong University of Science and Technology, China)</p> <hr/> <p><i>Pyrolysis and combustion characterization of coal, biomass and their blends by thermogravimetric analysis</i> by: Mauro Mureddu (Sotacarbo S.p.A.)</p> <hr/> <p><i>Effect of bagasse composition, devolatilization temperature, particle size and type of devolatilization atmosphere on char morphology of coal-bagasse blends</i> by: Edward Garcia Saavedra (Universidad del Valle, Colombia)</p> <hr/> <p><i>Porosity, morphology and structural ordering of Pittsburgh no.8 coal chars generated at high temperatures and elevated pressures</i> by: Sarma Pisupati (The Pennsylvania State University, PA)</p>
Coffee break – 15.10 – 15.30		
<p>NOx controls – 15.30 – 17.10 <i>Guaranteed reductions in NOx emissions and fuel consumption for Drax's 660MW biomass boilers</i> by: Dietrich-Georg Ellersiek (Siemens)</p> <hr/> <p><i>SNCR for Large Combustion Plants - Most Recent Application at a 380 MWe Lignite-Fired Boiler</i> by: Zoltan Teuber (ERC Technik GmbH)</p> <hr/> <p><i>Umbrella SNCR Development</i> by: Luigi Marco Re (GE Power, Boiler Product Line, Stuttgart)</p>	<p>Biomass II – 15.30 – 17.10 <i>Is co-firing straw with coal in power plants a CO2 mitigation or an agriculture policy?</i> by: An Ha Truong (Clean Energy and Sustainable Development Laboratory - University of Science and Technology of Hanoi, Vietnam)</p> <hr/> <p><i>Wood Pellet Co-Firing – Some Topics of conducted Conversions</i> by: Falk Hoffmeister (Mitsubishi Hitachi Power Systems Europe GmbH)</p> <hr/> <p><i>Black Pellets: Status Update</i></p>	<p>Gasification – 15.30 – 17.10 <i>Towards high-fidelity simulations of coal gasification</i> by: Michele Vascellari (TU Freiberg, Germany)</p> <hr/> <p><i>DEM simulations of coal particles in entrained-flow slagging gasifiers: particle-particle interaction at different burning levels</i> by: Francesco Saverio Marra (Istituto di Ricerche sulla Combustione - CNR)</p> <hr/> <p><i>Reaction behaviour of fuels of different quality in entrained flow gasifiers</i></p>

<p><i>DFT study of molecular structures and catalytic path of V2O5/TiO2 catalyst for selective catalytic reduction of NO</i></p> <p>by: Yaming Fan (Tsinghua University, China)</p> <hr/> <p><i>Simultaneous control of NO and mercury from coal combustion by using CuO/TiO2 as a NH3-SCR catalyst</i></p> <p>by: Hailong Li (Central South University, China)</p>	<p>by: Michiel Carbo (ECN (Energy research Centre of the Netherlands))</p> <hr/> <p><i>On cofiring as a strategy to mitigate ash deposition during combustion of a high-alkali Xinjiang coal</i></p> <p>by: Dunxi Yu (Huazhong University of Science and Technology, China)</p> <hr/> <p><i>Drying and torrefaction of coal/biomass mixture by using COMB Technology</i></p> <p>by: Sihyun Lee (Korea Institute of Energy Research)</p>	<p>by: Andreas Geißler (TU München, Germany - Energy Systems)</p> <hr/> <p><i>Impact characteristics of particles onto a flat wall relevant to entrained-flow gasifiers</i></p> <p>by: Maurizio Troiano (Università degli Studi di Napoli Federico II, Italy)</p> <hr/> <p><i>Flow properties of coal ash slags at high temperatures</i></p> <p>by: Wenjia Song (Ludwig Maximilian University of Munich, Germany)</p>
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Wednesday 12 May – Conference Day 2

Room 1	Room 2	Room 3
<p>Keynote Session II – 8.30 – 9.20</p> <p>Prof. Keiji Makino – Japan Coal Energy Centre</p> <p>Mr K K Sharma – NTPC Ltd, India</p>		
<p>IGCC – 9.20 – 11.00</p> <hr/> <p><i>NEDO's Clean Coal Technology Development for reduction of CO2 emissions</i></p> <p>by: Takeshi Murakami (New Energy and Industrial Technology Development Organization)</p> <hr/> <p><i>Update on IGCC power plants - status and challenges</i></p> <p>by: Juergen Karg (Siemens AG Power and Gas Division)</p> <hr/> <p><i>Experimental Investigation of Alkali Sorption with Mineral Getter Materials for IGCC Power Plants</i></p> <p>by: Florian Kerscher (TU München, Germany)</p> <hr/> <p><i>Technical solutions for perspective igcc</i></p> <p>by: Tatiana Bogatova (Ural Federal University, Russia)</p> <hr/> <p><i>Energy efficiency evaluation of Shell entrained-flow gasifier by different coal</i></p>	<p>Fluidised bed combustion – 9.20 – 11.00</p> <hr/> <p><i>The R&D of CFB coal combustion in China</i></p> <p>by: Guangxi Yue (Tsinghua University, China)</p> <hr/> <p><i>Development of advanced CFB technology in light of changing fuel trends</i></p> <p>by: Kalle Nuortimo (Amec Foster Wheeler Energia Oy)</p> <hr/> <p><i>The Formation of the Fluidized Bed Hydrodynamic Structure, Optimal for Burning of Low-Grade Coals and Biomass.</i></p> <p>by: Rafail Isemin (Clean Energy Ltd)</p> <hr/> <p><i>Attrition of bed particles in a re-circulating fluidized bed reactor</i></p> <p>by: Roshan Chandra (BITS PILANI)</p> <hr/> <p><i>CFD simulation of binary particle mixing in a baffled downer reactor for coal topping</i></p> <p>by: Nan Zhang (Institute of Process Engineering, Chinese Academy of Sciences)</p>	<p>Particulate controls – 9.20 – 11.00</p> <hr/> <p><i>Reducing the environmental footprint of coal combustion processes with wet electrostatic scrubbers</i></p> <p>by: Francesco Di Natale (Università di Napoli, Italy)</p> <hr/> <p><i>The influence of discharge electrode geometry and the associated discharge characteristics on electrostatic precipitator performance</i></p> <p>by: David Branken (North-West University, South Africa)</p> <hr/> <p><i>Experimental study on combustion of gasification fly ash preheated by a cfb burner</i></p> <p>by: Ziqu Ouyang (Institute of Engineering Thermophysics Chinese Academy of Sciences)</p> <hr/> <p><i>Experimental and modelling analysis of seawater scrubbers for sulphur dioxide removal in coal-fired power plants</i></p> <p>by: Domenico Flagiello (University of Naples, Federico II – DICMaPI, Italy)</p>

<p><i>ranks and Exergy analysis of IGCC with carbon capture</i></p> <p>by: Chang-Ha Lee Lee (Yonsei University, South Korea)</p>		<hr/> <p><i>Particle matter filtration from iron-ore sintering flue gas in a magnetically stabilized fluidized bed</i></p> <p>by: Yang Xu (Huazhong University of Science and Technology, China)</p>
<p>Coffee break – 11.00 – 11.20</p>		
<p>Policy and outlook – 11.20 – 13.00</p> <p><i>Operational and Strategic Considerations for Coal Plants in the Context of Changing Market Design and Growing Renewable Energy Penetration</i></p> <p>by: Ashutosh Shastri (EnerStrat Consulting)</p> <hr/> <p><i>Thermal Power Generations in India: The Challenges from Renewable Energy source Power Generation.</i></p> <p>by: Avijit Mallick (RELIANCE POWER LTD)</p> <hr/> <p><i>Estimation of the emission footprint from the use of coal in Bangladesh and policy recommendations</i></p> <p>by: Bayzid Kabir Kazi (Bangladesh University of Engineering & Technology)</p> <hr/> <p><i>HELE perspectives for selected Asian countries</i></p> <p>by: Ian Barnes (IEA Clean Coal Centre)</p> <hr/> <p><i>Impacts of Re-opening of Czech Brown Coal Mines on Energy System and Deep Decarbonisation Target</i></p> <p>by: Lukáš Rečka (Charles University Environment Center, Czech Republic)</p>	<p>Mercury controls – 11.20 – 13.00</p> <p><i>Research progress of mercury emission and control in China</i></p> <p>by: Yongchun Zhao (Huazhong University of Science & Technology, China)</p> <hr/> <p><i>Control of Mercury Emissions - Alternative Methods</i></p> <p>by: John Meier (Nalco Water)</p> <hr/> <p><i>Mercury Removal and its Fate in Wet Flue Gas Desulphurization Slurry Enhanced With Reagents and Without any Treatment</i></p> <p>by: Renata Krzyzyska (Wroclaw University of Technology, Faculty of Environmental Engineering, Poland)</p> <hr/> <p><i>Mercury capture by a structured Au/C regenerable sorbent under oxycoal combustion conditions</i></p> <p>by: M. Teresa Izquierdo (Instituto de Carboquímica, ICB-CSIC, Spain)</p>	<p>Chemical looping II – 11.20 – 13.00</p> <p><i>Long-term pilot testing of the carbonate looping process in 1 MWth scale</i></p> <p>by: Jochen Hilz (Institute for Energy Systems and Technology (EST) - Technische Universität Darmstadt, Germany)</p> <hr/> <p><i>Calcium looping combustion for high-efficiency low-emission power generation</i></p> <p>by: Dawid Hanak (Cranfield University, UK)</p> <hr/> <p><i>On the evaluation of ilmenite as an oxygen carrier for natural/synthesis gases in chemical-looping combustion</i></p> <p>by: Yau-Pin Chyou (INER)</p> <hr/> <p><i>Performance of CLOU process in the combustion of different types of coal with CO2 capture with a Cu-Mn oxygen carrier</i></p> <p>by: Iñaki Adánez-Rubio (ICB-CSIC)</p> <hr/> <p><i>COMPOSITE Process: Highly efficient IGCC power generation with CO2 capture by integration of CLAS and CLC</i></p> <p>by: Yngve Larring (SINTEF)</p>
<p>Lunch – 13.00 – 14.00</p>		
<p>Supercritical CO2 power cycles – 14.00 – 15.20</p> <p><i>Techno-economic Analysis of an Integrated Gasification Direct-Fired Supercritical CO2 Power Cycle</i></p> <p>by: Nathan Weiland (National Energy Technology Laboratory)</p> <hr/> <p><i>Recent advances in integration of coal gasification with allam cycle power system for electricity generation with near-zero emissions</i></p> <p>by: Mohammad Rafati (8 Rivers Capital)</p>	<p>Social and environmental issues – 14.00 – 15.20</p> <p><i>A Closed Carbon Cycle through Sector Coupling? Challenges posed by Path Dependency in the Socio-Technical System</i></p> <p>by: Roh Pin Lee (IEC, TU Bergakademie Freiberg, Germany)</p> <hr/> <p><i>Social Acceptance of Clean Coal Mining and Combustion</i></p> <p>by: Vladimir Budinsky (SD Severoceske doly a.s.)</p>	<p>CCS: Sorbents and membranes – 14.00 – 15.20</p> <p><i>Simulation and Cost Analysis of Structured Adsorbent Capture Technology with Advances in Materials</i></p> <p>by: Alison Cartier (Inventys Inc.)</p> <hr/> <p><i>Enhancement of CO2 capture capacity of mesoporous sorbents via functionalization with an amino acid ionic liquid</i></p> <p>by: Marco Balsamo (Università degli Studi di Napoli Federico II, Italy)</p>

<p><i>Coal fired power plant efficiency boost through retrofitting with Supercritical CO2 Brayton cycle</i> by: Huiqi Wang (EDF)</p> <hr/> <p><i>Development of a mean-line model of axial Supercritical CO2 turbine</i> by: Yili Xiong (EDF)</p>	<p><i>Coal image & educational scheme</i> by: Michel Valdelievre (Consultant)</p> <hr/> <p><i>UCG: supposed environmental issues – myths and realities</i> by: Angela Bush (C&R Consulting)</p>	<p><i>Post-combustion CO2 capture using N-(isopropyl)-tetraethylenepentamine-based solid sorbent</i> by: Hidetaka Yamada (Research Institute of Innovative Technology for the Earth (RITE))</p> <hr/> <p><i>Ultra-thin zeolite membranes for gas separations</i> by: Jonas Hedlund (Luleå University of Technology, Sweden)</p>
<p>Coffee break – 15.20 – 15.40</p>		
<p>Panel session: The future energy mix and the place of coal – 15.40 – 17.10 Benjamin Sporton – World Coal Association CSE India Others</p>		

Thursday 11 May – Conference Day 3

Room 1	Room 2	Room 3
<p>Keynote session III – 8.30 – 9.20</p> <p>Scott Smouse – US Department of Energy</p> <p>TBC</p>		
<p>Carbon capture and storage 9.20 – 11.00 <i>20 Years of CCS: Accelerating Future Deployment</i> by: Samantha McCulloch (International Energy Agency)</p> <hr/> <p><i>Overview and Status Update of Carbon Capture & Geologic Storage Major Demonstration & Commercial Projects in North America</i> by: Thomas Sarkus (National Energy Technology Laboratory (U.S. Department of Energy))</p> <hr/> <p><i>Policy parity of CCS/CCUS: The Continued Case for CCS</i> by: Amishi Kumar (United States Energy Association)</p> <hr/> <p><i>Development of energy efficient CO2 Capture Technologies</i> by: Svein Gunnar Bekken (Gassnova SF)</p>	<p>Materials and corrosion – 9.20 – 11.00 <i>Development of an advanced ultra-supercritical component test facility including 760°C superheater and steam turbine</i> by: Horst Hack (Electric Power Research Institute)</p> <hr/> <p><i>Investigation of the hot corrosion behaviors of Sanicro™ 25 - a potential candidate for superheater and reheaters in high efficiency AUSC fossil power plants</i> by: Yanyan Bi (Sandvik)</p> <hr/> <p><i>Assessment of Materials Data for Advanced Coal Plants</i> by: John Oakey (Cranfield University, UK)</p> <hr/> <p><i>Advanced monitoring of the fouling process on water walls</i> by: Matthias Reiche (TU Dresden, Germany)</p>	<p>Lignite and low rank coal – 9.20 – 11.00 <i>How to utilize low grade coals below 1000kcal/kg?</i> by: Falk Hoffmeister (Mitsubishi Hitachi Power Systems Europe GmbH)</p> <hr/> <p><i>A study of spontaneous combustion and self-heating behavior of lignite dried by different methods</i> by: Yixin Zhang (China University of Mining and Technology)</p> <hr/> <p><i>Small technical scale parametric investigation of co-firing of hard coal and pre-dried lignite under part load conditions in the scope of enhancing the flexibility of hard coal fired power stations.</i> by: Ioannis Papandreou (University of Stuttgart, Germany)</p> <hr/> <p><i>Study on the structural evolution of molecular skeleton and mobile phase</i></p>

<p><i>Long Term Operation result for advanced PCC system at Coal-fired Power Plant</i> by: Yasuro YAMANAKA (IHI Corporation)</p>	<p><i>Thermooptical measuring technique - A highly efficient tool to increase the efficiency of coal combustion and minimize negative emissions</i> by: Andreas Diegeler (Fraunhofer Society Germany)</p>	<p><i>during pyrolysis process of a Chinese low-rank coal</i> by: Song Hu (Huazhong University of Science and Technology, China)</p> <hr/> <p><i>Detrimental Effects of Low Rank Coal Utilization to Operational Condition of Demonstrated-Scale Fixed-Bed Coal Gasifier</i> by: Phiciato Phiciato (Research and Development Center for Mineral and Coal Technology - Ministry of Energy and Mineral Resources of the Republic of Indonesia)</p>
<p>Coffee break – 11.00 – 11.20</p>		
<p>CCS: amines – 11.20 – 13.00 <i>Pilot Plant Improvement and Experimentation for CO2 Capture with Amine Solvents</i> by: Paolo Deiana (ENEA - Italian Agency for New Technologies, Energy and Sustainable Economic Development)</p> <hr/> <p><i>Study of hydrodynamics and carbon capture efficiency in an absorber for post combustion carbon capture in the context of coal-fired power plant using cfd simulation and process analysis</i> by: Nuhu Musa (University of Hull, UK)</p> <hr/> <p><i>Metal Aerosol Emissions from Coal and Biomass Combustion for Carbon Capture Applications</i> by: Karen N. Finney (University of Sheffield, UK)</p> <p>CCS panel session: Samantha McCulloch – IEA Keith Whiriskey – Bellona Others</p>	<p>Pollutant controls – 11.20 – 13.00 <i>Study of elemental mercury oxidation over SCR-catalysts under oxy-fuel combustion conditions</i> by: M. Mercedes Díaz Somoano (INCAR-CSIC)</p> <hr/> <p><i>Theoretical and experimental study of the enhancement effect of high-temperature steam on the SeO2 absorption on CaO surface</i> by: Yu Lou (Tsinghua University, Peking)</p> <hr/> <p><i>Long-term monitoring of selenium in flue gas desulfurization wastewater with fully automated online process monitor</i> by: Seiichi Ohyama (Central Research Institute of Electric Power Industry)</p> <hr/> <p><i>First evaluation of a multicomponent flue gas cleaning concept using chlorine dioxide – Experiments on chemistry and process performance</i> by: Anette Heijnesson Hultén (Akzo Nobel)</p> <hr/> <p><i>Investigation of MoS2 nanosheet containing adsorbents for Hg0 Capture: an experimental approach</i> by: Tao WU (The University of Nottingham Ningbo China)</p>	<p>Underground coal gasification and coal bed methane – 11.20 – 13.00 <i>Environmental Performance of the Exergy UCG Technology: Groundwater Protection and Global Warming Impacts</i> by: M.S. Blinderman (Ergo Exergy Technologies Inc)</p> <hr/> <p><i>Underground coal gasification – efficient in-situ co2 capture and conversion</i> by: Johan van Dyk (Africary)</p> <hr/> <p><i>Experimental simulations of underground coal gasification (UCG) with hydrogen for methane-rich gas production</i> by: Krzysztof Kapusta (Główny Instytut Górnictwa, Poland)</p> <hr/> <p><i>Preliminary study of coal resources in indonesia for underground coal gasification</i> by: asep bahtiar (Research and Development Centre For Mineral and Coal Technology-Indonesia)</p> <hr/> <p><i>Insitu Biological Conversion (ISBC)</i> by: Grant Budge (Millennium Natural Resources)</p>
<p>Lunch – 13.00 – 14.00</p>		
<p>Coal conversion – 14.00 – 15.40 <i>Toward realization of a Hydrogen Energy Supply Chain</i></p>	<p>Oxyfuel combustion – 14.00 – 15.40 <i>CO2-free coal-fired power generation by partial oxy-fuel and post-combustion CO2 capture. Part 1: performance assessment</i></p>	<p>Coal beneficiation – 14.00 – 15.40 <i>Dry Separation of Coal Using Autogenous Medium</i></p>

<p>by: RYO CHISHIRO (Kawasaki Heavy Industries, Ltd.)</p> <hr/> <p><i>New Markets for Coal - Chemicals and Performance Materials</i></p> <p>by: Richard Horner (University of Wyoming, WY)</p> <hr/> <p><i>Design/Cost Study and Commercialization Analysis for Producing Low Net Carbon Synthetic Jet Fuel and Electricity from Lignite and Woody Biomass with CO2 Capture for EOR</i></p> <p>by: Thomas Kreutz (Princeton University, NJ)</p> <hr/> <p><i>Design and modeling of a biomass/coal co-pyrolysis unit for advanced fuel synthesis</i></p> <p>by: Konstantinos Atsonios (Centre for Research & Technology Hellas / Chemical Process & Energy Resources Institute (CERTH/CPERI))</p> <hr/> <p><i>Towards CO2-emission-free Coal Technology</i></p> <p>by: Christian Wolfersdorf (TU Bergakademie Freiberg, Institute for Energy Process Engineering and Chemical Engineering, Germany)</p>	<p>by: Vittorio Tola (University of Cagliari, Italy)</p> <hr/> <p><i>CO2-free coal-fired power generation by partial oxy-fuel and post-combustion CO2 capture. Part 2: economic analysis</i></p> <p>by: Alberto Pettinau (Sotacarbo S.p.A.)</p> <hr/> <p><i>Experimental study of the ignition temperature of five coals under oxyfuel atmospheres</i></p> <p>by: Lei Cai (Huazhong University of Science and Technology, China)</p> <hr/> <p><i>Assess of biomass co-firing under oxy-fuel conditions on Hg speciation and ash deposit formation.</i></p> <p>by: Mluisa Contreras (CIEMAT)</p>	<p>by: Davaasuren Jambal (University of Science and Technology (UST), KIGAM, Korea)</p> <hr/> <p><i>Flotation of fine particles of coal from Mozambique - Reagent analysis.</i></p> <p>by: Irineu Antônio Schadach de Brum (Federal University of Rio Grande do Sul, Brazil)</p> <hr/> <p><i>Development of Clean Coal Technology for Industrial Use in Pakistan</i></p> <p>by: Muhammad Irfan (Sarhad University of Science and Information Technology Peshawar, Pakistan)</p> <hr/> <p><i>Design of the Preparation Process of Candiota Low Rank Coal Deposit According the Production Strategy Adopted in Order to Meet the Quality Specification of Pampa Power Plant.</i></p> <p>by: Alexandre Grigorieff (Copelmi Mineração Ltda)</p> <hr/> <p><i>Separation of fine coal using enhanced gravity separator</i></p> <p>by: Youjun Tao (China University of Mining & Technology)</p>
<p>Coffee break – 15.40 – 16.00</p>		
<p>Final plenary and close – 16.00 – 17.20</p> <p><i>Regulatory reforms in technology and pollution standards in the coal based thermal power sector in india</i></p> <p>by: Chandra Bhusan (Centre for Science and Environment, India)</p> <hr/> <p><i>DEWA and coal</i></p> <p>by: Neil Grant (DEWA)</p> <hr/> <p><i>Closing statements</i></p> <p>by: Andrew Minchener (IEA Clean Coal Centre)</p>		

Friday 12 May – Visit to Sotacarbo, Museo del Carbone, and Portovesme CFB power plant – 9.00 – 17.00 (limited places)