### Programme

**Sunday 8 May – Thursday 12 May**  
**Palacio de Congresos de Zaragoza**

#### Sunday

<table>
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<tr>
<td>18.00–20.00</td>
<td>Registration in the Foyer</td>
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<tr>
<td>19.00–20.30</td>
<td>Reception in the Foyer of the Palacio de Congresos de Zaragoza</td>
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#### Monday

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<th>Time</th>
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<tr>
<td>09.00–10.00</td>
<td>Auditorio – Welcome and Opening Addresses by Alfonso Beltrán, Javier Velasco and Nobuo Tanaka</td>
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**Address by Alfonso Beltrán**, Director General of IDAE (Institute of Diversification and Saving of Energy) [Spain]

Mr. Alfonso Beltrán serves as Director of the Institute for Diversification and Saving of Energy (IDAE) which is a part of the Spanish Ministry of Industry, Tourism and Trade. Earlier, Mr. Beltrán has filled different positions in the Spanish Ministry of Science and Technology with responsibilities in the development of R+D+i policies in the Spanish National Strategy of Science and Technology and the different Spanish R+D+i Plans.

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**Address by Javier Velasco**, Counsellor for Science, Technology and the University, Government of Aragón [Spain]

Mr. Javier Velasco has served as Aragón Counsellor of Science, Technology and University since 2010. His area of responsibility includes research, development and innovation policies, and university policy. Before 2010 Mr Velasco was member of the Spanish Parliament, Counsellor of Presidency and Counsellor of Transport and Public Works.

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**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, overseen the implementation of Japan’s International nuclear energy policy and co-ordinated domestic environment and energy policy during the Kyoto COP5 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.

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Organised by the IEA Clean Coal Centre and the Instituto de Carboquímica (ICB), Zaragoza, on behalf of the Grupo Español del Carbón

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**SPECIAL INVITATION**

The Regional Assembly of Aragon invites all delegates to a guided tour of the Palacio de la Aljafería on Monday 9 May.
**Monday’s Programme**

09.00–10.00  Auditorio – Welcome and Opening Addresses by Alfonso Beltrán, Javier Velasco and Nobuo Tanaka

10.00–10.20  Coffee Break in the Foyer

10.20–12.00  **Auditorio**  
**Oxy-firing of high sulphur coal in a 90 kWth fluidized bed** / Dr. Luis M Romeo - CIRCE [Spain]  
**Development of post-combustion capture technology - design, construction and operation of a field demonstration facility and field demonstration units at SSE and Basin Electric Power Cooperative / Mr. Matthew Hunt - Dosman Power Systems [United Kingdom]**  
**Impact of biomass on coal combustion under air and oxy-fuel conditions / Ms Timpare Salome Farrow - University of Nottingham [United Kingdom]**  
**Charactrization of calcium based sorbents for oxy-fuel combustion in fluidized beds / de las Obras Loscertales [Spain]**  
**Impact of biomass on coal combustion under air and oxy-fuel conditions / Ms Timpare Salome Farrow - University of Nottingham [United Kingdom]**

10.20–10.40  **Auditorio**  
**Performance of zeolite derived activated carbon on pre-combustion CO2 capture / Dr. Karsten Reddl - E.ON New Build & Technology GmbH [Germany]**  
**Experimental study on CO2 capture with dolomite: the effect of sintering on uptake decay / Carlos Herce - ENEA [Italy]**  
**The control of nitrogen oxides in oxy-fuel combustion / Dr. Fredrik Normann - Chalmers University of Technology [Sweden]**  
**Experiences on the effect biomass co-firing and full coal to biomass conversion on plant operations in Europe and North America / ir. Gerard Stienstra - KEMA [Netherlands]**

10.40–11.00  **Oxy-firing of high sulphur coal in a 90 kWth fluidized bed / Dr. Luis M Romeo - CIRCE [Spain]**  
**CCS: the effects of integration, benchmarking the different options / ir. Gerard Stienstra - KEMA [Netherlands]**  
**NOx emissions in oxy-fuel combustion / Mr. Jorge Gimenez-Lopez - Aragon Institute of Engineering Research (I3A) - University of Zaragoza [Spain]**  
**Techno-economic assessment of oxygen-transport membrane (OTM) integration options in coal IGCC plants with CCS / Dr Sina Razavi - University of Ulster [United Kingdom]**

11.00–11.20  **Auditorio**  
**Carbonate Cycling and Solid Sorbents I**  
**Demonstrating the concept of postcombustion CO2 capture / Christian Kunze - TU München / Institute for Energy Systems [Germany]**  
**Grasa - Instituto de Carboquimica (CSIC) [Spain]**  
**Experimental investigation of synthetic solid sorbents for CO2 capture / Dr. Stanley Santos - IEA Greenhouse Gas R&D Programme [United Kingdom]**

11.20–11.40  **Auditorio**  
**Characterization of calcium based sorbents for oxy-fuel combustion in fluidized beds / de las Obras Loscertales [Spain]**  
**Evaluation and analysis of water usage of power plant with CCS / Dr. Teresa Mendiara - CSIC-Instituto Carboquimica [Spain]**  

11.40–12.00  **Auditorio**  
**Oxyfiring I**  
**The control of nitrogen oxides in oxy-fuel combustion / Dr. Fredrik Normann - Chalmers University of Technology [Sweden]**  
**Carbon capture and storage: a compendium of Canadian activities / Mrs Dubravka Bulut - Natural Resources Canada**  
**Recent developments in coal-based IGCC / Dr Ian Barnes - Hatterrall Associates [United Kingdom]**

12.00–12.30  **Auditorio**  
**Auditorio International and Regional Perspectives I**  
**Coffee Break in the Foyer**  
**Chair: Ana Mastral**  
**Chair: Ana Mastral**  
**Chair: Luis de Diego**

12.30–12.50  **Auditorio**  
**The Electric Power Research Institute’s large-scale demonstration program for a low-carbon future / Ronald Schott - Electric Power Research Institute [United States]**  
**Preliminary study of the Hg retention on Au/C regenerable sorbents / Dr. M. Teresa Izquierdo - Instituto de Carboquimica, CSIC [Spain]**  
**Integrated removal of SOx, NOx and Hg from simulated coal-fired flue gas in a wet flue gas desulphurization systems (WFGD) - pilot- and bench-scale demonstration. / Dr Renata Krzyzynska - Wroclaw University of Technology [Poland]**  
**Thermodynamic analysis of a coal fired chemical looping combustion power plant / Volkmar Kampsch - Institute of Energy Systems/Hamburg University of Technology [Germany]**

12.50–13.10  **Auditorio**  
**China’s coal to oil, gas and chemicals developments / Dr Andrew Mincheren - IEA Clean Coal Centre [United Kingdom]**  
**Cleaner and better energy from coal and gas / Dr. Ing. Christian Folke - E.ON AG [Germany]**  
**Integrated removal of SOx, NOx and Hg from simulated coal-fired flue gas in a wet flue gas desulphurization systems (WFGD) - pilot- and bench-scale demonstration. / Dr Renata Krzyzynska - Wroclaw University of Technology [Poland]**  
**CO2 capture by in situ gasification chemical looping combustion using iron as oxygen-carrier in a 550kWth unit / Dipl. Ing. Ana Cuadrat - ICB-CSIC [Spain]**

13.10–13.30  **Auditorio**  
**Cleaner and better energy from coal and gas / Dr. Ing. Christian Folke - E.ON AG [Germany]**  
**China’s coal to oil, gas and chemicals developments / Dr Andrew Mincheren - IEA Clean Coal Centre [United Kingdom]**  
**Clean coal technology development in NEDO, Japan / En Hirai - New Energy and Industrial Technology Development Organization [Japan]**  
**Mercury and trace elements captured by activated carbon in a Canadian coal-fired power plant; Geochemistry and speciation of flyash in a full-scale test trial / Dr. Hamed Sanei - Geological Survey of Canada [Canada]**

13.30–13.50  **Auditorio**  
**Clean coal technology development in NEDO, Japan / En Hirai - New Energy and Industrial Technology Development Organization [Japan]**  
**Clean coal technology development in NEDO, Japan / En Hirai - New Energy and Industrial Technology Development Organization [Japan]**  
**Red mud as oxygen carrier in chemical looping combustion of coal / Dr. Teresa Mendia - CSIC-Instituto Carboquimica [Spain]**  
**Carbon capture and storage: a compendium of Canadian activities / Mrs Dubravka Bulut - Natural Resources Canada [Canada]**

13.50–14.10  **Auditorio**  
**Carbon capture and storage: a compendium of Canadian activities / Mrs Dubravka Bulut - Natural Resources Canada [Canada]**  
**Clean coal technology development in NEDO, Japan / En Hirai - New Energy and Industrial Technology Development Organization [Japan]**  
**Abatement of environmental pollution from coal combustion processes: The mercury and PCDD/F cases / Irene Diamantopoulou [Greece]**  
**Integrated removal of SOx, NOx and Hg from simulated coal-fired flue gas in a wet flue gas desulphurization systems (WFGD) - pilot- and bench-scale demonstration. / Dr Renata Krzyzynska - Wroclaw University of Technology [Poland]**

14.10–15.40  **Auditorio**  
**Lunch Sala A**

15.40–17.20  **Auditorio**  
**Carbonate Cycling and Solid Sorbents I**  
**Chair: Ana Mastral**  
**Experience of synthetic solid sorbents for multi-cycling carbon dioxide uptake / Dr. Stefano Stendardo - ENEA [Italy]**  
**Experimental study on CO2 capture with dolomite: the effect of sintering on uptake decay / Carlos Herce - ENEA [Italy]**  
**Demonstrating the concept of postcombustion CO2 capture with CaO / Dr. Juan Carlos Abanades - INCAI-CSIC [Spain]**

16.00–16.20  **Auditorio**  
**Experimental study on CO2 capture with dolomite: the effect of sintering on uptake decay / Carlos Herce - ENEA [Italy]**  
**Pulverised coal/biomass co-firing modelling in full scale corner-fired boiler / Mr Kristofer Jon Larsen - CFD Centre, University of Nottingham[United Kingdom]**  
**Circulating fluidized bed carbonator reactor model validation with experimental data from post-combustion capture of CO2 with CaO / Dr. Juan Carlos Abanades - INCAI-CSIC [Spain]**  
**Co-combustion of various agrowastes with a high-sulfur Turkish lignite in a circulating fluidized bed combustor: effect of air staging on pollutants along the combustor / Mr. Mustafa Can Celtebi - Istanbul Technical University [Turkey]**

16.20–16.40  **Auditorio**  
**Demonstrating the concept of postcombustion CO2 capture with CaO / Dr. Juan Carlos Abanades - INCAI-CSIC [Spain]**  
**Pulverised coal/biomass co-firing modelling in full scale corner-fired boiler / Mr Kristofer Jon Larsen - CFD Centre, University of Nottingham[United Kingdom]**  
**Circulating fluidized bed carbonator reactor model validation with experimental data from post-combustion capture of CO2 with CaO / Dr. Juan Carlos Abanades - INCAI-CSIC [Spain]**  
**Techno-economic evaluation of biomass fired or co-fired power plants with post-combustion CO2 capture / Dr. Stanley Santos - IEA Greenhouse Gas R&D Programme [United Kingdom]**

16.40–17.00  **Auditorio**  
**High-temperature CO2 capture with modified CaO-based pellet sorbents: TGA results / Dr. Edward Anthony CanmetENERGY [Canada]**  
**A combined experimental and computational study of fuel gas generation from low-grade fuels for CCGT / Dr Tatiana Generation from low-grade fuels for CCGT / Dr Tatiana Hatterrall Associates [United Kingdom]**  
**Circulating fluidized bed carbonator reactor model validation with experimental data from post-combustion capture of CO2 with CaO / Dr. Juan Carlos Abanades - INCAI-CSIC [Spain]**  
**Techno-economic evaluation of biomass fired or co-fired power plants with post-combustion CO2 capture / Dr. Stanley Santos - IEA Greenhouse Gas R&D Programme [United Kingdom]**

17.00–17.20  **Auditorio**  
**A combined experimental and computational study of fuel gas generation from low-grade fuels for CCGT / Dr Tatiana Hatterrall Associates [United Kingdom]**  
**Performance of zeolite derived activated carbon on pre-combustion CO2 capture / Dr. Karsten Reddl - E.ON New Build & Technology GmbH [Germany]**  
**Experimental study on CO2 capture with dolomite: the effect of sintering on uptake decay / Carlos Herce - ENEA [Italy]**  
**Experiences on the effect biomass co-firing and full coal to biomass conversion on plant operations in Europe and North America / ir. Gerard Stienstra - KEMA [Netherlands]**

18.30–19.30  Guided tour of the Palacio de Aljaferia (Group 1)

19.00–20.00  Guided tour of the Palacio de Aljaferia (Group 2)
### Tuesday’s Programme

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<th>Session Title</th>
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<td>09:00–10:00</td>
<td>Auditorio</td>
<td>Keynote Session I – Chair: Rob Whitney</td>
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<tr>
<td>10.00–10.20</td>
<td>Auditorio</td>
<td>Coffee Break in the Foyer</td>
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<tr>
<td>10.20–12.00</td>
<td>Auditorio Oxyfiring II</td>
<td>Sala B Carbon Capture and Storage II – Chair: Ed Lester</td>
<td>Sala C IGCC and Precombustion Carbon Capture II – Chair: Pilar Coca</td>
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<tr>
<td>10.40–11.00</td>
<td>Oxycoal combustion for low carbon electric power generation / Mr. Kevin McCauley - Babcock &amp; Wilcox [United States]</td>
<td>Effects on the shallow aquifers by carbon storage in a tertiary basin / Prof Carmen Clemente-Jul - ETILMINAS/UPM [Spain]</td>
<td>Modelling of multi-particle reactor for carbon dioxide capture and hydrogen production / Dr Stefano Stendardo - ENEA [Italy]</td>
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<tr>
<td>11.00–11.20</td>
<td>Advanced air separation units and CO₂ purification units for oxycombustion in power plants / Mr Nicolas Perrin - Air Liquide [France]</td>
<td>Design and off-design behaviour of a CO₂ compressor for a post-combustion CO₂ capture process / Ulrich Liebenthal - Hamburg University of Technology [Germany]</td>
<td>Technological and economic evaluation of polygeneration concepts for load flexible electricity generation / Dipl.-Ing. Rüdiger Pantelmann - TU Bergakademie Freiberg, Department of Energy process engineering and Chemical Engineering [Germany]</td>
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<tr>
<td>11.20–11.40</td>
<td>Experimental investigation of flameless pulverised coal combustion under oxyfuel conditions / Arno Keittmann - RWTH Aachen University [Germany]</td>
<td>Microalgae mass culture for carbon dioxide biofixation and biofuels / Dr Jorge Alberto Vieira Costa - UFG [Brazil]</td>
<td>Techno-economic evaluation of low temperature technology for carbon dioxide capture in IGCC power plant / Dr Sina Rezvani - CST, University of Ulster [United Kingdom]</td>
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<td>11.40–12.00</td>
<td>CFDb modelling of oxy-coal combustion in an entrained flow reactor / Ms Lucia Alvarez - Instituto Nacional del Carbon (CSIC) [Spain]</td>
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<tr>
<td>12.00–12.30</td>
<td>Auditorio</td>
<td>Coffee Break in the Foyer</td>
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<td>12.30–14.10</td>
<td>Auditorio International and Regional Perspectives II – Chair: Shurichi Yanai</td>
<td>Sala B Ash and Slag – Chair: Andrew Mincher</td>
<td>Sala C Carbon Capture Solvents – Chair: Maria Jesús Lázaro</td>
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<tr>
<td>12.30–12.50</td>
<td>A technology package utilising coal, biomass and intermittent renewable electricity / Dr Robert S Whitney - CRL Energy [New Zealand]</td>
<td>An integrated ash system for water elimination in ash handling / Prof Simone Savastano - Magaldi Power S.p.A. [Italy]</td>
<td>Vapour-liquid equilibria measurement and modelling of CO₂/H₂O-amine systems / Miss Danlu Tong - Imperial College [United Kingdom]</td>
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<tr>
<td>12.50–13.10</td>
<td>German Center for Energy Resources - Technologies after the peak oil / Dr Heiner Gutte - Technische Universität Bergakademie Freiberg [Germany]</td>
<td>Numerical method of assessing slagging propensity of pulverized coals in boilers / Mr Mohammed Usman Degereji - University of Leeds [United Kingdom]</td>
<td>Two steps configuration for MEA regeneration in a CO₂ capture system / Dr. Luis M Romero - CIRCE [Spain]</td>
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<td>13.10–13.30</td>
<td>Energy technologies 2050: R&amp;D priority setting of coal fired power plants in Germany / Dr Peter Markewitz - Forschungszentrum Juelich (IEK-STE) [Germany]</td>
<td>Biomass characterisation and the link between milling, combustion and ash deposition / Prof Ed Lester - University of Nottingham [United Kingdom]</td>
<td>Behaviour of the mass-transfer coefficient of CO₂ absorption in different solvents at the PCC pilot plant at Loy Yang power / Dr Yali Aratano - CSIRO [Australia]</td>
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<td>13.30–13.50</td>
<td>CCS and low rank coal innovation in Australia / Dr Richard Aldous - Department of Primary Industries [Australia]</td>
<td>Comparative study of emissions and depositions for different pulverized solid fuels / Carmen Bartolomé - Fundación CIRCE [Spain]</td>
<td>Application and optimization of the spray scrubbing technology for CO₂ capture with amine based solvents / Kevin Brechtel - Universität Stuttgart - IFK [Germany]</td>
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<tr>
<td>13.50–14.10</td>
<td>Socioeconomic benefits of clean coal technologies in China and India / Professor Frank Clemente - Penn State University [United States]</td>
<td>Impacts of biomass addition on ash properties during coal/biomass combustion / Dr Tao Wu [China]</td>
<td>Evaluation of CO₂ capture process using regenerative chemical absorption in a packed column under enriched-air combustion conditions / Prof. Francisco Muñoz - AICA [Spain]</td>
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<td>14.10–15.40</td>
<td>Lunch in Sala A</td>
<td>Sala B Combustion – Chair: Josè J. Pis</td>
<td>Sala C Gasification – Chair: Peter Wikloesboeke</td>
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<td>15.40–17.20</td>
<td>Auditorio Carbonate Cycling and Solid Sorbents II – Chair: Carlos Alcaraz</td>
<td>Performance comparison of non-slagging, entrained-bed gasifier with different ash melting temperature coals / Dr. Youngsoo Yun - Institute for Advanced Engineering [Korea, Republic of]</td>
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<td>15.40–16.00</td>
<td>Effect of SO₂ on multi cycle carbonation-calcination of limestone for CO₂ capture / Mr Masoud Khavos - Cranfield University [United Kingdom]</td>
<td>Applying a presumed density function for the sub grid scale distribution in LÉS of coal combustion / Mr Benjamin Franchetti - Imperial College London [United Kingdom]</td>
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<td>16.20–16.40</td>
<td>Modeling an entrained bed-bubbling bed process for CO₂ capture from flue gas / Professor Jeong-Hoo Choi - Konkuk University [Korea, Republic of]</td>
<td>A thermogravimetric test to predict spontaneous combustion of coals / Prof Ed Lester - University of Nottingham [United Kingdom]</td>
<td>First experimental results of coal gasification tests on small scale plant / Claudia Bassano - ENEA [Italy]</td>
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<td>16.40–17.00</td>
<td>Clean valorization of waste coal by Ca-based multi-capture / Ms Ana Martinez - CIRCE - Universidad de Zaragoza [Spain]</td>
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<td>Power generation through coal and biomass gasification for medium and small scale industrial applications / Dr. Alberto Petinina - Sotoscario S.p.A. [Italy]</td>
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<td>17.00–17.20</td>
<td>CO₂ capture in a 1 MWth fluidized bed reactor in batch mode operation / Alexander Galstey - Technische Universität Darmstadt [Germany]</td>
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<tr>
<td>21.00–00.00</td>
<td>Conference Dinner in Hotel Hiberus</td>
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Wednesday's Programme

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<tr>
<td>09.00–10.40</td>
<td>Auditorio</td>
<td>Oxyfiring III</td>
<td>Chair: Uxue Alzueta</td>
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<tr>
<td>09.00–09.20</td>
<td>Sala B</td>
<td>Char morphology characteristics of coal during oxyfuel combustion / Prof Ed Lester - University of Nottingham [United Kingdom]</td>
<td>The integration assessment of CO₂ post-combustion capture with MEA technology in the existing coal-fired power plant / Dr. Cristian Dinca - POLITEHNICA University of Bucharest [Romania]</td>
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<tr>
<td>09.20–10.00</td>
<td>Sala B</td>
<td>Implications of oxy-fuel combustion environments for ethylene oxidation and NO conversion / Ms Maria Abián - Aragón Institute of Engineering Research (I3A), University of Zaragoza [Spain]</td>
<td>Analysis of steam parameters for integration of CO₂ scrubbing process with a coal-fired power plant / Dipl.-Ing. Elizabeth Heischkamp - University of Duisburg-Essen / LUAT [Germany]</td>
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<tr>
<td>10.00–10.20</td>
<td>Sala B</td>
<td>CIUDEN 20 MWth PC oxycombustion system: first operating experiences / Mrs Monica Lupion Cordero - Fundacion Ciudad de la Energia [Spain]</td>
<td>Solvent scrubbing post combustion capture - demonstration and verification / Mr Stuart Bowden - Doosan Power Systems Limited [United Kingdom]</td>
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<tr>
<td>10.20–11.10</td>
<td>Sala B</td>
<td>Kinetics of coal combustion under oxyfuel conditions / Dr Claudioa Seminca - Istituto di Ricerche sulla Combustione, C.N.R. [Italy]</td>
<td>Post-combustion CO₂ capture by means of physical adsorption - a pilot scale comparative study / José María Sánchez Herras - CIEMAT [Spain]</td>
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<td>11.10–12.30</td>
<td>Foyer</td>
<td>Coffee Break in the Foyer</td>
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<tr>
<td>12.30–14.00</td>
<td>Auditorio</td>
<td>Final Poster Viewing in the Foyer</td>
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<tr>
<td>14.00–16.00</td>
<td>Sala A</td>
<td>Lunch in Sala A</td>
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<td>16.00–17.30</td>
<td>Foyer</td>
<td>Visit to ICB Laboratories</td>
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Thursday's Programme

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<tr>
<td>09.30–17.30</td>
<td>Foyer</td>
<td>Visit to ELCOGAS IGCC Plant in Puertollano. The train leaves Zaragoza Delicias station at 10.09</td>
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