

Programme Sunday 2 May – Thursday 6 May Hilton Hotel Dresden

Sunday 2 May 2010	
18:00 - 20:00	Registration
19:00 - 22:00	Welcome Evening Restaurant Bierhaus Dampfschiff Hilton Hotel

	Monday 3 May 2010			
08:30 - 09:00	Opening Ceremony			
09:00 - 09:40	Plenary Session			
		Prof. DrIng. Bernd Meyer – Rector TU Bergakademie Freiberg [Germany] Prof. Bernd Meyer is Rector of the Technische Universität Bergakademie Freiberg (since 2008) and director of the Department for Energy Process Engineering and Chemical Engineering. He got his PhD in 1978 and after working for several		

partment for Energy Process Engineering and Chemical Engineering. He got his PhD in 1978 and after working for several years as Research Associate at the German Institute for Fuel Technologies and as Chief Scientist at Rheinbraun AG he was awarded a full professorship at TU Bergakademie Freiberg in 1994.

Research and education at the Department for Energy Process Engineering and Chemical Engineering are focussing on the energetic and non-energetic use of fossil fuels and renewable feedstock. Main topics are thermochemical conversion/biomass, high pressure gasification/partial oxidation, gasifier modelling, flow sheet simulation and mineral matter reactions. Since 2005 Prof. Meyer has been organising the International Freiberg Conference on IGCC & XtL Technologies.



Prof. Li Zheng – Director Tsinghua BP Clean Energy Research and Education Centre [China]

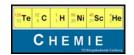
Zheng Li got his bachelor and master degrees from the Department of Thermal Engineering, Tsinghua University in 1986 and 1988. He then worked for three years in industry before he reentered Tsinghua University and got his PhD in 1994. He became a faculty member of the Department of Thermal Engineering at the end of 1994 and became a full professor in 2000. He founded Tsinghua BP Clean Energy Research and Education Center in 2003 and has been the director of the center since then. Prof. Li was awarded the National Award of Science and Technology of China for his contribution in the development of simulation technology for circulating fluidized bed power plant. He has been Changjiang Scholar Professor since 2008. Besides technical studies, Prof. Li also works on energy strategy and policy study for China and leads several national and international research projects.

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Monday 3 May 2010				
08:00 - 16:00	Registration			
08:30 - 16:00	Posters and Exhibition			
08:30 - 09:00	Conference Centre - Opening Ceremony			
09:00 - 09:40	Conference Centre - Plenary Session			
	Clean Coal – Quo vadis? - Prof. DrIng. Bernd Meyer – Rector TU Bergakademie Freiberg [Germany] Prof. Li Zheng – Director Tsinghua BP Clean Energy Research and Education Centre [China]			
09:40 - 10:10	Coffee Break			
10:10 – 12:00	Conference Centre - Session 1: Polygeneration Chair: Dr. Gerhard Beysel			
10:10 - 10:40	01-1: Keynote: Gasification: status, outlook and technical developments / Frank Hannemann – Siemens Fuel Gasification Technology GmbH & Co. KG [Germany]			
10:40 - 11:00	01-2: A dual-gas sourced approach to methanol/power polygeneration systems design and analysis / Fen He - State Key Laboratory of Power Systems, Department of Thermal Engineering, Tsinghua University [China]			
11:00 - 11:20	01-3: CtL/CtG – boundary conditions and chances of implementation / Dr. Frank Schwendig - RWE Power AG [Germany]			
11:20 - 11:40	01-4: XtL – the Topsøe approach / Maibritt Mastrup - Haldor Topsøe A/S [Denmark]			
11:40 – 12:00	01-5: Polygeneration - evaluation of technologies and concepts for demand driven co-production of electricity and liquids from coal / Robert Pardemann – TU Bergakademie Freiberg [Germany]			
12:00 - 13:00	Lunch			
13:00 – 15:10	Conference Centre - Session 2: IGCC / CCS Chair: Dr. Hubert Höwener	Salon Europa - Session 3: Integration of nuclear process heat in chemical processes I Chair: Prof. Martin Bertau		
13:00 – 13:30	02-1: Keynote: RWE's 450-MW IGCC-CCS project – status and perspective / Werner Renzenbrink - RWE Power [Germany]	03-1: Keynote: Research activities using nuclear systems as energy source for the gasification of coal / Prof. Dr. Kurt Kugeler - RWTH Aachen [Germany]		
13:30 – 13:50	02-2: Advances in gasification projects and technology for the next generation of IGCC and CCS plants / Marcus Scholz - GE Energy [Spain]	03-2: Survey on 20 years of nuclear heat applications in Germany I / Dr. Werner von Lensa, Dr. Karl Verfondern - FZ Jülich [Germany]		
13:50 – 14:10	02-3: RAM evaluation for gasification and IGCC plants / Dr. Ariane Sutor - Siemens Corporate Technology [Germany]	03-3: Survey on 20 years of nuclear heat applications in Germany II / Dr. Werner von Lensa, Dr. Karl Verfondern - FZ Jülich [Germany]		
14:10 – 14:30	02-4: R&D plant results and experience in the Puertollano IGCC / Francisco García Peña – ELCOGAS, S.A. [Spain]	03-4: High temperature reactors: The nuclear cogeneration alternative for fossil fuel usage in process industry / Sander de Groot - NRG [The Netherlands]		
14:30 – 14:50	02-5: Environmental performance of IGCC power plants / Stephen Jenkins - CH2MHILL, INC. [USA]; speaker Christopher Higman – Syngas Consultants GmbH [Germany]	03-5: The importance of high temperature reactors for the gasification of coal in Poland / Ludwig Pienkowski - University of Warsaw [Poland]		
14:50 – 15:10	02-6: Progress update of the MHI air blown IGCC and gasification plant / Koichi Sakamoto - Power Systems Headquarters, Mitsubishi Heavy Industries, Ltd. [Japan] 03-6: Nuclear options for process heat generation / Dr. Dittrich Knoche – inghouse Germany GmbH [Germany]			
15:10 - 15:40	Coffee Break			
15:40 – 17:00	Conference Centre - Session 4: Biomass to Liquid Chair: Dr. Steffen Krzack	Salon Europa - Session 5: Integration of nuclear process heat in chemical processes II Chair: Prof. Antonio Hurtado		
15:40 – 16:00	04-1: Bio energy with CO_2 capture and storage (BECCS): conversion routes for negative CO_2 emissions / Michiel Carbo - Energy Research Centre of the Netherlands (ECN) [The Netherlands]	05-1: Potential Applications of Nuclear Cogeneration in Coal / Dr. Manuela Musella - European Commission [The Netherlands]		
16:00 – 16:20	04-2: BtL process development: simulation and techno-economic assessment of several technical options / Dr. Guillaume Boissonnet - CEA Grenoble [France]	05-2: Potential use of nuclear energy in the future oil and gas industry / Jacques Ruer - Saipem [France]		
16:20 – 16:40	04-3: Bio-syngas via CHOREN's gasification technology / Matthias Rudloff – CHOREN Industries GmbH [Germany] 05-3: CO ₂ as a raw material in chemical synthesis and fuel refinery – poten contribution of nuclear process heat / Prof. Dr. Martin Bertau – TU Bergakademie Freiberg [Germany]			
16:40 – 17:00	04-4: Determination of production costs and LCA for BtL fuels using different gasification and synthesis systems / René Stahlschmidt – TU Bergakademie Freiberg [Germany]	05-4: Nuclear – coal synergy for coal liquefaction with CO ₂ recycling / Dr. Jerzy Cetnar - University of Krakow [Poland]		
19:00 – 22:00	Conference Dinner Coselpalais			

Exhibitors

Salon Rotterdam & St. Petersburg

























	Tuesday 4 May 2010				
08:00 - 16:00	Registration				
08:30 – 16:00	Posters and Exhibition				
08:30 – 10:10	Conference Centre - Session 6: Fluidised Bed Gasification Chair: Dr. David Harris	Salon Europa - Session 7: Concept Studies Chair: Luis Robles			
08:30 – 08:50	06-1: Development and modelling of 3 rd generation gasification concepts for low grade coals / Martin Graebner – TU Bergakademie Freiberg [Germany]	07-1: CO₂ load in the process of hydrogen production by coal gasification / Dr. Andrzej Strugala (speaker: Dr. Marek Sciazko) – AGH University of Science and Technology [Poland]			
08:50 – 09:10	06-2: A Review of Fluidized Bed Gasification Technology / Prof. Todd Pugsley – University of Saskatchewan (speaker Prof. Nader Mahinpey / University of Calgary) [Canada]	07-2: Hierarchical structured exergetic analysis of an IGCC concept with carbon capture / Christian Kunze – TU München [Germany]			
09:10 – 09:30	06-3: Gasification of Australian lignites for power generation — research and development needs for power generation and production of exportable fuels / Sankar Bhattacharya — Monash University [Australia]	07-3: Potential of IGCC-CCS power plants using lignite / Michael Trompelt – TU Bergakademie Freiberg [Germany]			
09:30 – 09:50	06-4: Biomass fluidized bed gasification for fuel gas / Zhang Yongqi - Institute of Coal Chemistry [China]	07-4: Polygeneration systems for the provision of SNG, power and heat – a concept study / Stefan Roensch – German Biomasse Research Centre [Germany]			
09:50 – 10:10	06-5: Gasoline and power via air blown gasification of biomass / Martin Dan Palis Soerensen – Haldor Topsøe A/S [Denmark]	07-5: Potentials and research demand of UCG-CCS / Stephan Peters – DMT GmbH & Co. KG [Germany]			
10:10 - 10:40	Coffee Break				
10:40 – 12:30	Conference Centre - Session 8: Entrained Flow Gasification Chair: Karsten Radtke	Salon Europa - Session 9: Fuel Upgrading Chair: Dr. Manfred Wirsum			
10:40 – 11:10	08-1: Keynote: PRENFLO for biomass + coal co-gasification / Karsten Radtke/ Max Heinitz-Adrian – Uhde GmbH [Germany]	09-1: Introduction to the Centre for Innovation Competence VIRTUHCON and to the German Centre of Energy Resources / Prof. Christian Hasse, Dr. Heiner Gutte – TU Bergakademie Freiberg [Germany]			
11:10 – 11:30	08-2: PWR compact gasification development / Dr. Kenneth Sprouse (speaker Timothy Saunders) – Pratt&Whitney Rocketdyne Inc. – United Technologies Corp. [USA] 09-2: BO ₂ torrefaction technology, an enabling technology for engasification of biomass / Dr. Heiko Gerhauser – ECN Energy Reseated the Netherlands [The Netherlands]				
11:30 – 11:50	08-3: Technology and operational experience – the Shell perspective / Steffen Jancker – Shell Global Solutions Upstream International B.V. [The Netherlands]	09-3: Coal/biomass pyrolysis as initial step in gasification – experiments and modelling / Denise Reichel – TU Bergakademie Freiberg			
11:50 – 12:10	08-4: Pressurised entrained flow gasification of slurries from biomass / Ralph Stahl – Forschungszentrum Karlsruhe [Germany]	09-4: Rotary kiln pyrolysis – first results of a 3 MW pilot plant / Michael Halwachs – Bioenergy 2020+GmbH [Austria]			
12:10 – 12:30	08-5: New insights into coal conversion and slag formation during entrained flow gasification and their impacts on gasification performance / Dr. Daniel Roberts – CSIRO Energy Technology [Australia] 09-5: Promoting projects to optimise biomass energy use - A programme framework of the German Climate Initiative / Diana Pfeiffer – German Research Centre [Germany]				
12:30 – 13:30	Lunch				
13:30 – 15:10	Conference Centre - Session 10: Fixed Bed Gasification Chair: Martin Gall Salon Europa - Session 11: Fundamentals and Ash Behaviour Chair: Prof. Frans Waanders				
	10.4 5:	11.1. Unaveding of hygun goal for anhancing politication water / Koulishi Miuro			
13:30 – 13:50	10-1: Pipe reactor gasification studies – petrographic particle type analysis as a function of feed coal particle size / Prof. Frans Waanders – North-West University [South Africa]	11-1: Upgrading of brown coal for enhancing gasification rate / Kouichi Miura – Kyoto University [Japan]			
13:30 – 13:50 13:50 – 14:10	function of feed coal particle size / Prof. Frans Waanders – North-West Univer-	Kyoto University [Japan]			
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Wednesday 5 May 2010		
08:00 - 12:00	Registration	
08:30 - 13:00	Posters and Exhibition	
08:30 – 10:00	Conference Centre - Session 14: Syngas Upgrading Chair: Christopher Higman	
08:30 - 09:00	14-1: Keynote: Selection of wash systems for sourgas removal / Dr. Peter M. Fritz (speaker Barbara Munder) – Linde LE [Germany]	
09:00 – 09:20	14-2: Advanced H ₂ S and CO ₂ removal technologies for synthesis gases / Howard Meyer – Gas Technology Institute [USA]	
09:20 – 09:40	14-3: Condensed rotational separation for CO ₂ capture in coal gasification processes / Prof. J.J.H. Brouwers – Eindhoven University of Technology [The Netherlands]	
09:40 – 10:00	14-5: Performance and economics of a planar WGS membrane reactor for coal gasification / Michael Dolan (speaker Dr. David Harris) – CSIRO Energy Technology [Australia]	
10:00 – 10:30	Coffee Break	
10:30 – 12:20	Conference Centre - Session 15: Gas Technologies Chair: Dr. Rajender Gupta	
10:30 – 11:00	15-1: Keynote: Air Liquide – Lurgi, Your partner for XtL technologies / Max-Michael Weiss (speaker Dr. Waldemar Liebner) – Lurgi GmbH/Air Liquide Group [Germany]	
11:00 – 11:20	15-2: Slim POX design for gasification / Hanno Tautz – Linde LE [Germany]	
11:20 - 11:40	15-3: Development and flame diagnostics of high pressure partial oxidation processes / Dr. Magnus Mörtberg – Lurgi GmbH [Germany]	
11:40 – 12:00	15-4: STF technology – new technology for production of high octane gasoline from synthesis gas / Dr. Mario Kuschel – CAC Chemnitz [Germany]	
12:00 – 12:20	Conference Centre - Closing Ceremony	
12:20 – 13:20	Lunch	
14:00 – 18:30	Technical Tour 1 Freiberg	

Thursday 6 May 2010	
07:00 - 18:00	Technical Tour 2 Vresova

