

Impacts of Fuel Quality on Power Production 2016
Program of the conference

Sunday, 18th September

6:00 PM	9:00 PM	Registration at the hotel REZIDENCE EMMY
---------	---------	--

Monday, 19th September

7:00 AM	8:30 AM	Breakfast
7:30 AM	9:00 AM	Registration at the hotel REZIDENCE EMMY
8:30 AM		Transfer to the conference centre
9:00 AM	9:10 AM	F. Hrdlička Conference opening
9:10 AM	9:20 AM	M. Valášek Faculty of Mechanical Engineering CTU in Prague
9:20 AM	9:35 AM	A. Laciok ČEZ, a.s.

Deposits	chairman:	F. Hrdlička
9:35 AM	10:25 AM	P. A. Jensen Plenary presentation - A review-Fly ash deposit formation in PF fired biomass boilers
10:25 AM	10:50 AM	C. Thiel An experimental approach to understanding slagging issues in large scale boilers
10:50 AM	11:20 AM	Coffee break
11:20 AM	11:45 AM	A. M. Beckmann Towards understanding of deposit build-up mechanism in our experimental facility
11:45 AM	12:10 PM	Y. Laxminarayan Deposit Shedding in Biomass-fired Boilers - Shear Adhesion Strength Measurements
12:10 PM	12:35 PM	S. Harding Real-time Deposition Rate and Particle Size Measurements in a Pilot-scale Combustor
12:35 PM	1:00 PM	T. Dlouhý Effect of biomass co-combustion on CFB boiler fouling and corrosion

Impacts of Fuel Quality on Power Production 2016
Program of the conference

Monday, 19th September

1:00 PM	2:00 PM	Lunch			
chairman:				S. Harding	
2:00 PM	2:25 PM	M. Chernetskiy	The impact of ash content on slagging properties of coalsand slagging of pulverized coal-fired boilers		
2:25 PM	2:50 PM	M. D. Paz	Increased steam temperature with Steamboost superheater in grate fired boilers - linking deposit formation and high temperature corrosion		
2:50 PM	3:15 PM	J. Konrad	Predicting of fouling and slagging properties of fuel mixtures for co-firing of biomass in pulverized-fired boilers		
3:15 PM	3:40 PM	J. Niemi	Temperature gradient induced boiler deposit densification and intradeposit alkali chloride enrichment		
3:40 PM	4:05 PM	M. Engblom	Mathematical modeling of intradeposit alkali chloride enrichment in biofuel boiler superheaters		
4:05 PM	4:35 PM	Coffee break			
Fuel properties					
4:35 PM	5:00 PM	S. Broekema	Six Years of Operating Experience with DryFining™ – A Coal Drying and Cleaning System at Coal Creek Generating Station		
5:00 PM	5:25 PM	A. Yamamoto	Grinding and combustion characteristics of low-volatile bituminous coals		
5:25 PM	5:50 PM	P. Sommersacher	Online determination of the release of S, Cl, K, Na, Zn and Pb during combustion of a single miscanthus pellet		
5:50 PM	8:00 PM	Welcome reception			

Impacts of Fuel Quality on Power Production 2016
Program of the conference

Tuesday, 20th September

7:00 AM	8:30 AM	Breakfast	
8:20 AM	8:40 AM	Transfer to the conference centre (for those who want)	
Modelling, calculations, general		chairman:	Reinhold Spörl
	9:00 AM	9:50 AM	F. J. Frandsen
			Bioefficiency: A Continuation of 20 Years of EU-Funded Research on Fuel Characterization, Ash and Deposit Formation, and Corrosion
	9:50 AM	10:15 AM	G. Wang
			K-capture by Al-Si based Additives in an Entrained Flow Reactor
	10:15 AM	10:40 AM	H. He
			Crack layer formation in fluidized quartz bed combustion of woody biomass
10:40 AM	11:10 AM	Coffee break	
	11:10 AM	11:35 AM	L. De Fusco
			Ash characterization of four residual wood fuels in 100 kwth circulating fluidized bed reactor including the use of kaolin and halloysite fireside additives
	11:35 AM	12:00 PM	F. M. Schmidt
			TDLAS based in situ detection of atomic potassium during combustion of biomass in an entrained flow reactor
	12:00 PM	12:25 PM	N. Skoglund
			Undarstanding reactivity using fuel design – phosphorus vs kaolin in combustion of stem wood
	12:25 PM	12:50 PM	N. Hashimoto
			Large eddy simulation of pulverized coal jet flame employing tabulated-devolatilization-process (TDP) model
12:50 PM	1:50 PM	Lunch	

Impacts of Fuel Quality on Power Production 2016
Program of the conference

Tuesday, 20th September

chairman:			F. J. Frandsen
1:50 PM	2:15 PM	R. Spörl	Application of thermodynamic phase mapping in combustion and other high temperature processes
2:15 PM	2:40 PM	M. García Pérez	A brief overview of the drag laws used in the Lagrangian tracking of ash trajectories for boiler fouling CFD models
2:40 PM	3:05 PM	J. Opatřil	Heat transfers in a bubbling fluidized bed combustor
CCS, co-combustion, incineration			
3:05 PM	3:30 PM	M. Zevenhoven	Chemical looping combustion of biomass - Interaction of ash forming matter with bed material
3:30 PM	4:10 PM	Coffee break	
Poster section			
3:30 PM	4:10 PM		
CCS, co-combustion, incineration			
4:10 PM	4:35 PM	T. Ekvall	Interactions between SO2 and KCl - A comparison between air and oxy-fuel combustion
4:35 PM	5:00 PM	M. Broström	Co-combustion of Miscanthus and Calcium Rich Brown Macroalgae
7:00 PM	8:00 PM	Dinner at the hotel REZIDENCE EMMY	

Impacts of Fuel Quality on Power Production 2016
Program of the conference

Wednesday, 21st September

6:30 AM	7:00 AM	Breakfast
7:00 AM	Leaving for the excursion	
9:30 AM	12:30 PM	Excursion to the IGCC powerplant Vřesová
1:15 PM	Lunch in Carlsbad	
6:00 PM	Return to the hotel	
6:30 PM	Leaving for the celebratory dinner	
7:30 PM	Celebratory dinner	

Thursday, 22nd September

7:00 AM	8:30 AM	Breakfast
CCS, co-combustion, incineration		chairman: P. A. Jensen
9:00 AM	9:50 AM	F. Winter
		Plenary presentation - Characteristic Behavior of Heavy Metals in the Vienna's Waste Incineration Cluster
9:50 AM	10:15 AM	F. Jiao
		Removal of Cesium from Incineration Ash by the Chloride Volatilization Method
10:15 AM	10:40 AM	F. Jones
		Fuel characterisation at the world's largest waste-fired CFB-boiler in Västerås Sweden
10:40 AM	11:10 AM	Coffee break
11:10 AM	11:35 AM	T. Ekvall
		The use of waste fractions for co-combustion in an aluminium recovery smelter
12:15 PM	Leaving for the lunch and sightseeing trip to the centre of Prague	
1:00 PM	Lunch in Zbraslav	
3:00 PM	Sightseeing boat-trip to Prague	
7:00 PM	Conference dinner in the centre of Prague	

Impacts of Fuel Quality on Power Production 2016
Program of the conference

Friday, 23rd September

7:00 AM 8:30 AM		Breakfast	
Corrosion		chairman:	Y. Ninomiya
9:00 AM	9:25 AM	H. Kinnunen	High temperature corrosion due to lead chloride mixed with potassium sulphate
9:25 AM	9:50 AM	J. Lehmusto	Utilization of stable oxygen isotopes in high-temperature corrosion studies
9:50 AM	10:15 AM	J. Phother-Simon	Effect of continuous KCl addition during exposures on 304L
10:15 AM	10:40 AM	H. Hagman	Alloy selection in a co-fired CFB boiler vortex finder application at 890C in a complex mixed mode corrosion environment
10:40 AM	11:10 AM	Coffee break	
11:10 AM	11:35 AM	S. Retschnitzegger	Low temperature corrosion in biomass-fired heating plants due to lower deviation of fuel gas dew points
11:35 AM	12:00 PM	V. Barišić	Role of Sodium vs. Potassium on Agglomeration and corrosion in CFB boilers
12:00 PM	12:25 PM	E. Vainio	Role of Ash-Forming Elements in Low-Temperature Corrosion in Biomass Boilers
12:25 PM	12:50 PM	M. Paneru	Mineral additives to mitigate deposition and corrosion problems during pulverized biomass combustion