

# Program

## Day 1 – Monday 9<sup>th</sup> of November

8.00	9.00	Registration and coffee	
9.00	9.10	Welcome	
9.10	10.00	Plenary Lecture 1 (Scandinavian-Nordic)	
10.00	10.20	Break	
		<b>Session 1 – Solid Fuel Combustion</b>	<b>Session 2 – Diagnostics</b>
10.20	10.45	Reduction of Gaseous KCl and Chlorine in Deposits during Biomass Combustion <i>H. Kassman*, J. Bowalli, L.-E. Åmand</i>	Investigations of the Blue Emitting Phosphor BaMg <sub>2</sub> Al <sub>10</sub> O <sub>17</sub> :Eu for Thermometry <i>J. Lindén*, C. Knappe, G. Särner, M. Richter, M. Aldén</i>
10.45	11.10	Aerosol formation during co-combustion of coal and solid recovered fuel in a pulverized coal-fired power plant <i>H. Wu*, A.J. Pedersen, P. Glarborg, F.J. Frandsen, K. Dam-Johansen, B. Sander</i>	Rotational CARS for accurate thermometry in standardized flat premixed flames <i>A. Bohlin*, P.-E. Bengtsson</i>
11.10	11.35	Mineral Matter Issues in Coal Fired Power Plants <i>A. Magda*, R. Leithner</i>	On Developing a Spectroscopic System for Fast Gas Temperature Measurements in Combustion Environments <i>V. Evseev*, S. Clausen</i>
11.35	12.00	Modeling the combustion of coal chars in a drop tube using constant activation energy <i>Oskar Karlström*, Anders Brink, Mikko Hupa, Leonardo Tognotti</i>	Ultra-fast SLIPI for single-shot imaging of dense sprays <i>E. Kristensson*, E. Berrocal, M. Richter and M. Aldén</i>
12.00	13.00	Lunch	

13.00	14.00	Poster session	
		<b>Session 3 – Turbulent Combustion</b>	<b>Session 4 – Chemical Kinetics</b>
14.00	14.25	Nonlinear analysis of combustion instabilities in a confined multipoint injection configuration <i>F. Boudy*, G. Jomaas, D. Durox, T. Schuller, S. Candel</i>	A Chemical Model of Gasoline/Ethanol Blends <i>Chen Huang*, Valeri Golovitchev, Andrei Lipatnikov</i>
14.25	14.50	LES of turbulent combustion in a spark assisted homogenous charge compression ignition engine <i>T. Joelsson*, R. Yu, X.S. Bai</i>	Oxidation of C <sub>2</sub> H <sub>4</sub> and C <sub>3</sub> H <sub>6</sub> in presence of CO <sub>2</sub> and H <sub>2</sub> O: Experimental and Detailed Kinetic Modeling Study <i>T. Le Cong, E. Bedjanian, P. Dagaut*</i>
14.50	15.15	Large Eddy Simulation of High Speed Combustion <i>E. Fedina, C. Fureby*, V. Sabelnikov, J. Tegnér</i>	Automatic parameters optimization for phenol pyrolysis <i>M. Fischer*, U.Riedel</i>
15.15	15.45	Coffee	
		<b>Session 5 – Turbulent Combustion</b>	<b>Session 6 – Chemical Kinetics</b>
15.45	16.10	Comparison of SGS Turbulent Combustion Models in Large Eddy Simulation of Turbulent Diffusion Flame <i>Zhenghua Yan*, Bengt Sunden</i>	Influence of addition of methane on hydrogen flame acceleration <i>J.Biet*, N. Chaumeix, C.-E. Paillard</i>
16.10	16.35	Direct Quadrature Conditional Moment Closure <i>T. Løvås*, S. Ali, A. Vikhansky</i>	Krylov subspace approximation to the exponential of the Jacobian matrix of the chemical source vector <i>Fabrizio Bisetti*</i>
16.35	17.00	LES of a Bluff Body Stabilized Premixed Flame Using a Combined Level Set and Ghost Fluid Methods <i>E. Baudoin*, R. Yu, X. S. Bai</i>	Laminar Burning Velocities of Acetone + Air Flames at Room and Elevated Temperatures <i>A.A. Konnov*, R.J. Meuwissen, L.P.H. de Goey</i>
17.15	18.00	General section meeting – Scandinavian-Nordic Section	
19.00	Dinner		

**Day 2 – Tuesday 10<sup>th</sup> of November**

9.00	9.10	Breakfast	
9.10	10.00	Plenary Lecture 2 (French)	
		<b>Session 7 – Pollutant Formation and Control</b>	<b>Session 8 – Fluid Dynamics/Novel Technologies</b>
10.20	10.45	Reduced Formation of PCDD/Fs by Injection of Ammonium Sulphate during Combustion of a High Chlorine Biomass in a CFB Boiler <i>L.-E. Åmand*, J. Öhlin, J. Bowalli, H. Kassman</i>	Evaluation of Fluid Dynamics in a Hot and a Cold system of Interconnecting Fluidised Beds <i>Fredrik Lind*, Martin Seemann, Henrik Thunman</i>
10.45	11.10	Gas Reburning for Oxy-Fuel Combustion Processes <i>J. Giménez-López, A. Millera, R. Bilbao, M.U. Alzueta*</i>	Investigations of very fuel-lean flameless combustion <i>C. Duwig*, B. Li, Z.S. Li, M. Aldén</i>
11.10	11.35	Oxy-Fuel Combustion of Coal Char: Particle Temperature and NOx Formation <i>J. Brix*, P. A. Jensen, A. D. Jensen</i>	Effect of experimental conditions on biomass gasification in an entrained-flow reactor <i>Ke Qin*, Weigang Lin, Peter A. Jensen, Anker D. Jensen</i>
11.35	12.00	Trying to understand "some" issues of soot in combustion <i>M.U. Alzueta*, A. Millera, R. Bilbao, A. Callejas, C. Esarte, M. Abián, N.E. Sánchez, C. Arnal</i>	Evaluation of different oxygen carriers for biomass tar reforming <i>T. Mendiara*, A.D. Jensen, P. Glarborg</i>
12.00	13.00	Lunch	
		<b>Session 9 – Solid Fuel Combustion</b>	<b>Session 10 - Diagnostics</b>
13.00	13.25	Numerical Analysis of Spontaneous Ignition and Its Extinguishment in Biomass Fuel Storage <i>Zhenghua Yan*</i>	NCN detection in atmospheric flames <i>Z.W. Sun, N. Dam, Z.S. Li*, M. Aldén</i>
13.25	13.50	Numerical Modelling of Woodchips Combustion in a Medium Power Moving Grate Furnace <i>T. Florea, S. Caillat*, B. Taupin, B. Baudoin</i>	Extractive determination of the flue gas composition in a recovery boiler furnace <i>E. Vainio*, A. Brink, H. Vesala, K. Tormonen, M. Hupa</i>
13.50	14.15	Measurements for Modeling of Thermal Conversion	Imaging of Hydrogen Peroxides in a Premixed Flame

		of Biomass in a Fluidized Bed <i>Anton Larsson*, Martin Seemann, David Pallrés, Henrik Thunman</i>	Using Photo-fragmentation Laser Induced Fluorescence <i>O. Johansson, B. Li, Z. Sun, A. Ehn, Z. Li, J. Bood*, M. Aldén</i>
14.15	14.40	Combustion Aerosols from Municipal Waste Incineration – Influence of Waste Input Composition and Operational Conditions <i>Anne Juul Pedersen*, Jacob Hjerrild Zeuthen, Christian Riber, Thomas Astrup, Jørn Hansen, Flemming Jappe Frandsen, Hans Livbjerg</i>	Aggregate effects on laser-induced incandescence signals <i>H. Bladh*, J. Johnsson, H. Abdulhamid, J. Rissler, J. Pagels, P.-E. Bengtsson</i>
14.40		Coffee and Goodbye	

### Posters

LII Measurements in Low-Pressure Sooting Methane Flames <i>G. Cléon, T. Amodeo, P. Desgroux</i>
Suppression of Interfering Fluorescence in Raman Spectroscopy Using Temporal Filtering <i>Andreas Ehn, Billy Kaldvee, Martin Levenius, Joakim Bood, and Marcus Aldén</i>
Analysis of PAH Adsorbed on Soot Particles Sampled from Premixed Low-Pressure Methane Flames <i>A. Faccinetto, M. Wartel, M. Ziskind, C. Focsa, P. Desgroux</i>
Decay-Time Analysis of Laser-Induced Luminescence for Phosphor Thermometry <i>C. Knappe, J. Lindén, M. Richter, M. Aldén</i>
Turbulence and Combustion Interaction: High Resolution Local Flame Front Structure Visualization using Simultaneous Single-shot PLIF Imaging of CH, OH, and CH <sub>2</sub> O in a Piloted Premixed Jet Flame <i>Z.S. Li, B. Li, Z.W. Sun, X.S. Bai and M. Aldén</i>
Design of a Fixed Bed Combustion Reactor <i>S. Pillet, X. Chaucherie, F. Nicol</i>
Influence of Acetaldehyde Addition on PRF85 Auto-Ignition in a Rapid Compression Machine <i>S. Pounkin, K. H. Tran, G. Dayma, C. Morin, P. Guibert, V. Bossoutrot</i>
High Speed laser diagnostics for practical applications <i>J. Sjöholm, M. Richter, M. Aldén</i>