Program Overview

Monday, 14.09.2015

08:45	Welcome	
09:00	Toops	**Tutorial Modeling SCR**
10:00	Olsson	
10:25	**Coffee Break**	
10:55	Tronconi	
11:20	Bendrich	
11:45	Tamm	
12:10	**Lunch**	
13:15	Birkhold	**Tutorial Urea Injection**
14:15	Koltsakis	
14:40	**Posters with Coffee**	
16:00	Kočí	**Tutorial modeling NO$_x$ storage and Three way catalysts**
17:00	Walting	
17:25	**End**	
19:00	**Dinner** with social get-together afterwards on-site	

Tuesday, 15.09.2015

09:00	Auckenthaler	**Tutorial Models for Engine Control**
10:00	Papadimitriou	
10:25	**Posters with Coffee**	
11:20	Arvajová	
11:45	Gremminger	
12:10	**Lunch**	
13:30	Sappok	**Tutorial DPF**
14:30	Vidal	
14:55	**Coffee Break**	
15:25	Maletic	
15:50	Haralampous	
16:15	Hayes	
16:40	**Poster Award and Concluding remarks**	
16:50	**Coffee and farewell**	

Symposium Program

	Monday, 14.09.2015
08:45	**Welcome**
	Session SCR chaired by D. Chatterjee
09:00	**The measured and proposed chemistry of Selective Catalytic Reduction (SCR) of NO_x** T. Toops, Oakridge National Lab, USA
10:00	**A kinetic model for sulfur poisoning and regeneration of Cu/SSZ-13 used for NH_3-SCR** L. Olsson*, K. Wijayanti, K. Leistner, Chalmers University of Technology, Göteborg, Sweden A. Kumar, S. Joshi, K. Kamasamudram, N. W. Currier, A. Yezerets, Cummins Inc., Columbus, USA
10:25	**Coffee break**
10:55	**Enhanced-SCR reaction: experimental and modeling study over a commercial Fe-zeolite catalyst** F. Marchitti, I. Nova, P. Forzatti, E. Tronconi, Politecnico di Milano, Milano, Italy S. Adelberg, V. Strots, IAV GmbH, Berlin, Germany
11:20	**Simulation of SCR/ASC systems with automatically optimized NH_3 dosing strategies** M. Bendrich, B. Opitz, J. Rink, A. Scheuer, M. Votsmeier*, Umicore AG & Co. KG, Hanau, Germany J.F. Forbes, R.E. Hayes, University of Alberta, Edmonton, Canada
11:45	**Detailed kinetic model of the hydrogen effect during the selective catalytic reduction of NO with ammonia over Ag/Al_2O_3** S. Tamm*, Chalmers University of Technology, Göteborg, Sweden
12:10	**Lunch**
	Session NO_x storage and TWC chaired by M. Votsmeier
13:15	**From the injection point to the SCR catalyst: Analysis and modeling of the AdBlue preparation** F. Birkhold, Robert Bosch GmbH, Stuttgart, Germany
14:15	**3-way catalyst modeling and applications for system design and control** D. Karamitros, A. Khatke, Exothermia SA, Thessaloniki, Greese G. Koltsakis*, Aristotle University Thessaloniki, Thessaloniki, Greece A.-F. Villegas, P. Barrillon, Renault SA, Lardy, France
14:40	**Posters with Coffee**
16:00	**NO_x reduction dynamics and selectivity in lean NO_x traps and three-way catalysts** P. Kočí, University of Chemistry and Technology Prague, Prague, Czech Republic
17:00	**The Effect of NO and O_2 Concentration on the Rate of NO_x Storage on a Lean NO_x Trap: An Experimental and Modelling Study** T. C. Watling*, Johnson Matthey Technology Centre, Reading, UK P. D. Bolton, D. Swallow, Johnson Matthey Emission Control Technologies, Royston, UK
17:25	**END of first day's sessions**
19:00	**Dinner** with social get-together afterwards on-site

	Tuesday, 15.09.2015
	Session Models for engine control chaired by E. Tronconi
09:00	**Exhaust Aftertreatment Models from the Engine Control Unit (ECU) Perspective** T. Auckenthaler, FPT Motorenforschung AG, Arbon, Switzerland
10:00	**Methodology for Derivation of ECU Capable Models from Detailed Models of a SCR Reactor** S. R. Gundlapally, <u>I. Papadimitriou</u>, S. Wahiduzzaman*, Gamma Technologies, Inc., Westmont, USA. T. Gu, University of Houston, Houston, USA.
10:25	**Posters with Coffee**
11:20	**Modeling of platinum oxide formation and reduction by CO and C_3H_6 pulses during NO oxidation** <u>A. Arvajová</u>, P. Kočí*, University of Chemical Technology, Prague, Czech Republic V. Schmeiβer, M. Weibel, Daimler AG, Stuttgart, Germany
11:45	**Influence of gas composition on bimetallic catalysts for exhaust gas after treatment of gas engines** <u>A. Gremminger</u>, H. W. P. Carvalho, R. Popescu, J.-D. Grunwaldt*, O. Deutschmann*, Karlsruhe Institute of Technology, Karlsruhe, Germany
12:10	**Lunch**
	Session DPF chaired by O. Deutschmann
13:30	**Lubricant-Derived Ash Accumulation and Impact on Diesel Particulate Filter Performance** <u>A. Sappok</u>, Massachusetts Institute of Technology, Cambridge, USA
14:30	**Simulation of the impact of thermophoresis on the capture efficiency of diesel particulate filters** <u>D. Vidal</u>, G. Matte-Deschênes, F. Bertrand*, Polytechnique Montréal, Montréal, Canada R. E. Hayes, University of Alberta Edmonton, Edmonton, Canada
14:55	**Coffee break**
15:25	**Modeling of NO_x reduction and soot oxidation in a DPF with SCR coating** <u>B. Maletic</u>*, N. Markert, D. Chatterjee, MTU Friedrichshafen GMBH, Friedrichshafen, Germany E. Tronconi, I. Nova, F. Marchitti, Politecnico di Milano, Milano, Italy G. Koltsakis, LAT Thessaloniki, Thessaloniki, Greece D. Karamitros, Exothermia SA Thessaloniki, Thessaloniki, Greece
15:50	**Modeling of the loading in partially damaged DPFs** <u>O. Haralampous</u>*, Technological Educational Institute of Thessaly, Larissa, Greece C. Dritselis, University of Thessaly, Volos, Greece
16:15	**Modelling the Combined DOC/DPF System using a Multi-Scale Approach** <u>R.E. Hayes</u>*, R. Litto, J.P Mmbaga, University of Alberta, Alberta, Canada T. Atmakidis, Exothermia, Thessaloniki, Greece G. Koltsakis, Aristotle University Thessaloniki, Thessaloniki, Greece
16:40	**Poster Award and Concluding remarks**
16:50	**Coffee and farewell**

<u>Underlined</u>: First Author/Presenting Author
Asterisk*: Corresponding Author