

MODEGAT V - 2017 Preliminary Program

Sunday, Sep 3

17:30-20:30	Conference check-in on site (for already registered participants only)			
from 18:45	Dinner (Warm/cold buffet will be offered from ca. 18:45 until 20:00, cold buffet will be offered until ca. 21:00.)			

Monday, Sep 4

07:30-08:45	Conference check-in on site (for already registered participants only)			
08:45	Welcome			
09:00-10:00	SCR	Aleksey Yezerets	Cummins, Inc.	Tutorial "Peculiarities of SCR kinetics, and their practical implications "
10:00-10:25		Enrico Tronconi	Politecnico di Milano	A detailed transient kinetic model of the NO-NO ₂ -NH ₃ /O ₂ SCR reactivity over Cu-zeolites
10:25-10:55	Coffee Break			
10:55-11:20		William S. Epling	University of Virginia	An experimental and modeling study of sulfur poisoning in Cu-SSZ-13 for NH ₃ -SCR applications
11:20-11:45		Louise Olsson	Chalmers University of Technology	New method for studying internal mass transfer in wash-coat, applied on NH ₃ -SCR over Cu/SSZ-13
11:45-12:10		Bentolhoda Torkashvand	Karlsruhe Institute of Technology	Nitric Oxide Reduction of Heavy-Duty Diesel Off-Gas by NH ₃ -SCR in Front of the Turbocharger (Pre-Turbine SCR)
12:10-13:15	Lunch Break			
13:15-14:15	CH₄	Gianpiero Groppi	Politecnico di Milano	Tutorial "Modeling CH₄ oxidation"
14:15-14:40		Ciaran Coney	Queen's University Belfast	Kinetic Modelling of Water Inhibited Methane Oxidation Reactions over a Pd/Al ₂ O ₃ Wash-coated Monolith using Spatially and Temporally Resolved Experimental Data
14:40-16:00	Poster Session			
16:00-16:25	DOC	Petr Kočí	University of Chemistry and Technology Prague	Modeling of two-step CO oxidation light-off on Pt/γ-Al ₂ O ₃ in the presence of C ₃ H ₆ and Nox
16:25-16:50		Lars C. Grabow	University of Houston	Low temperature NO oxidation catalysts with reduced CO inhibition
19:00	Conference Dinner with social get-together afterwards on-site			

Tuesday, Sep 5

09:00-10:00	TWC	Martin Votsmeier	Umicore AG & Co. KG	Tutorial TWC
10:00-10:25		Jeremias Bickel	University of Stuttgart	Oxygen storage dominated three-way catalyst modeling – concepts and applicability
10:25-11:00	Coffee Break			
11:00-11:25	DPF	François Bertrand	Polytechnique Montréal	Numerical investigation of the impact of washcoat deposition on the performance of particulate filters
11:25-11:50		Adéla Arvajová	University of Chemistry and Technology Prague	Characterization and multi-scale modeling of catalytic filters
		Nickolas Vlachos	Aerosol & Particle Technology Laboratory, CERTH/CPERI	Overview of computational methods for nanoparticle aggregate deposition and application to soot deposits
11:50-12:15	Lunch Break			
12:15-13:30		William P. Partridge Jr.	Oak Ridge National Laboratory	Tutorial "Spatial resolution of reactions inside honeycomb monoliths"
13:30-14:30		Grigoris C.Koltsakis	Aristotle University Thessaloniki	Modeling the impact of non-uniform coating thickness on catalyst performance
14:55-15:20	Coffee Break			
15:25-15:50		Timothy C. Watling	Johnson Matthey Emission Control Technologies	Application of Surrogate Modelling to the Optimisation of Kinetic Parameters in an Emissions Control Catalyst Model using Vehicle Drive Cycle Data
15:50-16:15		Ivan Cornejo	University of Alberta	Studies of the turbulence inside of an automotive catalytic
16:15-16:40		Christoph Triebel	AVL List GmbH	Real-Driving Emissions - system modeling for office and hardware-in-the-loop application
16:40-17:00	Coffee and farewell			