3rd International Workshop on Near-Wall Reactive Flows 2022

Scientific Program

Program for Thursday 3rd, November 2022

12:00	Registration
12:45-13:00	Welcome & Opening Remarks by Prof. Dr. Andreas Dreizler

Session 1: Chair – Dr. Federica Ferraro

13:00-14:00	P. Domingo, Dr. : Impact of wall thermal condition in combustion high fidelity simulations: from narrow channels to industrial furnaces, Centre National de la Recherche Scientifique, Saint-Etienne-du-Rouvray, France
14:00-15:00	D. Mira, Dr. : Recent advances in HPC methodologies for reacting flow simulations, CASE – Propulsion Technologies Group, Barcelona Supercomputing Center, Spain
15:00-15:30	Coffee/Tea Break – check into hotel rooms - registration

Session 2: Chair – Prof. Dr. Andreas Dreizler

15:30-16:30	F. Sacomano Filho, Ass. Prof. : Large Eddy Simulation of sprays: from single to multi-component fuels, Department of mechanical Engineering, Escola Politécnica da Universidade de Sao Paulo, Brazil
	Farewell for Prof. Dr. A. Sadiki, Institute for Energy and Powerplant Technology at RSM, TU Darmstadt, Germany

Session 3: Posters

(Remark: Posters related to all topics including various applications)

17:00-18:00	Break + Hang up Posters
18:00-19:00	Dinner at Welcome Hotel
18:30-21:30	Poster Viewing and Drinks

Program for Friday 4th, November 2022

Session 4: Chair - Prof. Dr. Matthias Olzmann

08:30-09:30	B. Atakan, Prof. Dr. : Transport, Pyrolysis and Combustion of two Flame Retardants in Polymers and Alkanes, Institute for Combustion and Gas Dynamics, Chair of Thermodynamics, Universität Duisburg Essen, Germany
09:30-10:30	O. Deutschmann, Prof. Dr.: Controlling emissions of global and local pollutants by heterogeneous reactions, Institute for Chemical Technology and Polymer Chemistry, Chair of Chemical Technology, KIT – Karlsruher Institut für Technologie, Germany
10:30-11:00	Coffee/Tea Break

Session 5: Chair - Dr. Hendrik Nicolai

11:00-12:00	U. Maas, Prof. Dr. : Hierarchical Models for the coupling of chemical reactions, molecular transport and flow, Institute of Technical Thermodynamics, KIT – Karlsruher Institut für Technologie, Germany
12:00-13:00	Lunch

Session 6: Chair – Dr. Heiko Kubach

13:00-14:00	B. Peterson, Dr. : Understanding flame-wall dynamics and underlying heat losses for single- and two-wall configurations using advanced diagnostics, Mechanical Engineering, Multiscale Thermofluids, The University of Edinburgh, UK
14:00-15:00	B. Böhm, DrIng. : Experimental characterization of near-wall multiphase flows in direct injection spark ignition engines, Mechanical Engineering, Reactive Flows and Diagnostics, TU Darmstadt, Germany
15:00-15:30	Closing Discussion & End of Program