

## Preliminary program – International Combustion Institute Summer School on Near-Wall Reactive Flows 2024 – Darmstadt / Germany – June 10 – 13, 2024

<b>Monday, June 10, 2024</b>		
08:00 am - 09:30 pm	Individual Arrival	at Best Western Plus Plaza Hotel Darmstadt, Germany
09:30 am - 10:00 am	<b>Andreas Dreizler</b> <i>TU Darmstadt</i> <b>O. Deutschmann</b> <i>KIT Karlsruhe</i>	Welcome and Introduction to the Summer School on Near-Wall Reactive Flows
10:00 am - 12:00 am	<b>Matthias Olzmann</b> <i>KIT Karlsruhe</i>	Kinetics of Elementary Combustion Reactions
12:00 am - 01:00 pm	Lunch	
01:00 pm - 03:00 pm	<b>Alessandro Stagni</b> <i>Politecnico di Milano, Italy</i>	Kinetic Mechanisms: Development, Validation and Reduction
03:00 pm - 03:30 pm	Coffee Break	
04:00 pm - 05:30 pm	<b>Bernhard Schartel</b> <i>BAM, Berlin, Germany</i>	Fire Behavior and Flame Retardancy of Polymeric Materials
06:00 pm - 07:30 pm	Joint Welcome Dinner	
07:30 pm - 09:00 pm		Poster Pitches and Poster Session I, Mentorship Component

<b>Tuesday, June 11, 2024</b>		
07:30 am - 08:30 am	Breakfast	
08:30 am - 10:00 am	<b>Andrea Gruber</b> <i>SINTEF, Trondheim, Norway</i>	Gaining Detailed Insights on Flame-Wall Interaction Processes Using Direct Numerical Simulation
10:00 am - 10:30 am	Coffee Break	
10:30 am - 12:00 am	<b>Arne Scholtissek</b> <i>TU Darmstadt, Germany</i>	Combustion Models for Near-Wall Reactive Flows
12:00 am - 01:00 pm	Lunch	
01:00 pm - 03:00 pm	<b>Matthias Ihme</b> <i>Stanford University, USA</i>	Combustion and Conjugate Heat Exchange in Porous Media
03:00 pm - 03:30 pm	Coffee Break	
04:00 pm - 05:30 pm		Poster Pitches and Poster Session II, Mentorship Component
06:00 pm - 07:00 pm	Joint Dinner	
07:00 pm - 09:00 pm		Poster Pitches and Poster Session III, Mentorship Component

## Preliminary program – International Combustion Institute Summer School on Near-Wall Reactive Flows 2024 – Darmstadt / Germany – June 10 – 13, 2024

<b>Wednesday, June 12, 2024</b>		
07:30 am - 08:30 am	Breakfast	
08:30 am - 10:00 am	<b>Federica Ferraro</b> <i>TU Braunschweig, Germany</i>	Large Eddy Simulations of Near-Wall Turbulent Reacting Flows
10:00 am - 10:30 am	Coffee Break	
10:30 am - 12:00 am	<b>Brian Peterson</b> <i>The University of Edinburgh, Scotland</i>	Differences between Steady and Unsteady Flame-Wall Interactions and their Role on Heat Transfer
12:00 am - 01:00 pm	Lunch	
01:00 pm - 03:00 pm	<b>Benjamin Böhm</b> <i>TU Darmstadt, Germany</i>	Exploring Near-Wall Flows in Technical Combustion Applications using Optical Diagnostics
03:00 pm - 06:00 pm		Tour to the Combustion and Heat-Transfer Laboratories of TU Darmstadt
06:00 pm - 09:00 pm	Social Event	(incl. Dinner) at TU DA – near the Labs

<b>Thursday, June 13, 2024</b>		
07:30 am - 08:30 am	Breakfast	
08:30 am - 10:00 am	<b>Marion Börnhorst</b> <i>TU Dortmund, Germany</i>	Heterogeneous Catalysis in Emission Control: Multiphase Flow and Reaction Kinetics
10:00 am - 10:30 am	Coffee Break	
10:30 am - 12:00 am	<b>Martin Votsmeier</b> <i>TU Darmstadt, Germany and Umicore AG</i>	Efficient Design of Catalytic Reactors: Reactive Flow Simulations and Physics-informed Machine Learning
12:00 am - 01:00 pm	Lunch	
01:00 pm	End	Individual Departure