



**Preliminary Programme: EROFTAC Autumn Meeting: [EROFTAC - EROFTAC Autumn Festival and 20th Da Vinci Competition 2025, Darmstadt, Germany](#)**

**Thursday; 09.10.2025** Room : L1|01 K24

<b>09:00 – 09:10</b>	<b>Introduction and welcome</b>	<b>Andreas Dreizler</b>	<b>RSM</b>	<b>Welcome</b>
09:10 – 09:50	Review talk 1	<b>Johannes Mich</b>	STFS	“Great flames from small particles. Measurement and Modelling of Metal Combustion”
09:50 – 10:10	Contributed talk 1	<b>Peter Stephan/ Axel Sielaff</b>	TTD	“Insights into Pool Boiling Heat Transfer: Experimental and Numerical Investigations from the Multiscale Boiling Project on the ISS”
10:10 – 10:30	Contributed talk 2	<b>Felix Wolf</b>	Informatik	“High-Performance Computing for Computational Engineering Science”
<b>10:30 – 11:00</b>	<b>Coffee break</b>			
11:00 – 11:40	Review talk 2	<b>Tao Li</b>	RSM	“Experimental Insights into Turbulent Ammonia/Hydrogen Combustion”
11:40 – 12:00	Contributed talk 3	<b>John Linkhorst</b>	VES	“Flow Electrochemistry for the Metal Energy Cycle”
12:00 – 12:20	Contributed talk 4	<b>Naveen Billur Mohan</b>	FST	“Lubrication Film Friction Model for Non-Symmetrically Profiled Annular Seals”
<b>12:20 – 13:20</b>	<b>Lunch break</b>			
13:20 – 13:40	Contributed talk 5	<b>Louis Krüger</b>	SLA	“Flow and Heat Transfer Dynamics in Fuel Cell Cooling Systems: A complementary Experimental and Scale-Resolving Computational Study”
13:40 – 14:00	Contributed talk 6	<b>Michael Börner</b>	GLA	“Rotation detonation combustor research for space propulsion applications at TU Darmstadt”
14:00 – 14:20	Contributed talk 7	<b>Florian Kummer</b>	FDY	“Numerical Simulation of Flows with dynamic Interfaces”
14:20 – 14:40	Contributed talk 8	<b>Falco Marx</b>	EST	“Advancing Waste Valorization via Fluidized Bed Thermochemical Conversion”
<b>14:40 – 15:00</b>	<b>Coffee break</b>			
15:00 – 16:40	<b>Da Vinci Award Session</b>	5 Finalists		
15:00 – 15:20	Finalist 1	<b>Deniz Bezgin</b>	TU Munich, Germany	“Toward Machine-learned Discretizations and Differentiable CFD for Compressible Two-phase Flows”
15:20 – 15:40	Finalist 2	<b>Jean-Jacques Hok</b>	CERFACS, France	“Modeling Strategy for the Large Eddy Simulation of Lean Hydrogen-Air Explosions”
15:40 – 16:00	Finalist 3	<b>Yash Kulkarni</b>	Sorbonne Universite & CNRS, France	“Theoretical and Numerical Modelling of Three-Phase Dynamic Contact Line and Atomisation”
16:00 – 16:20	Finalist 4	<b>Thomas Monahan</b>	University of Oxford, UK	“Spatiotemporal Tidal Prediction and Analysis Using Physics-Informed MI”
16:20 – 16:40	Finalist 5	<b>Daniel Moron</b>	University of Bremen, Germany	“The Transitional Regime of Pulsatile Pipe Flow”
16:40 – 17:10	<b>Coffee Break</b>	Committee deliberating		
17:10 – 17:30	Decision and Presentation of Da Vinci Award			
<b>17:30</b>	<b>Closing remarks</b>			
19:30	<b>Gala Dinner</b>	<b>Restaurant</b>	<b>“Ratskeller Darmstadt”</b>	<b>Marktplatz 8, 64283 Darmstadt; (see <a href="https://www.ratskeller-darmstadt.de/en/">https://www.ratskeller-darmstadt.de/en/</a>)</b>

**Friday, 10.10.2025** Room : L6|01 Raum 4/23 EG

09:00 - 15:00 EROFTAC- Sitzung