

## ERCOFTAC Autumn Festival 2023 hosted by Belgium Pilot Centre

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### Day 1: Thursday, 12<sup>th</sup> October 2023

Venue: [University of Liège, Rectorat, Salle des Professeurs, Batiment A1, Place du 20 Août 7-9, 4000 Liège](#)

### Symposium and Da Vinci Competition

#### PC Belgium Presentations

08:30 – 08:45	Coffee
08:45 – 09:00	Opening remarks and welcome word
09:00 – 10:30	<b>Symposium – part 1</b> <b>Raphaël Dubois</b> (Université de Liège) <b><i>Investigation of the Flow Around Twin Cylinders in The Post-Critical Regime</i></b> <b>Nicolas Delaissé</b> (Ghent University) <b><i>Simulation of Elastohydrodynamic Lubrication</i></b> <b>Alessio Papa</b> (Université de Mons) <b><i>Flashback Prevention in a Micro Gas Turbine Fuelled By Hydrogen without any Combustor Redesign</i></b>
10:30 – 11:00	Coffee
11:00 - 12:00	<b>Symposium – part 2</b> <b>Romain Debroyer</b> (Université Catholique de Louvain) <b><i>Analysis of Mixing Phenomena in a Supersonic Air Ejector Using Large Eddy Simulation</i></b> <b>Margaux Boxho</b> (Cenaero, Université de Liège, Université Catholique de Louvain) <b><i>Development of Machine Learning Based Wall Shear Stress Models for LES in the Presence of Adverse Pressure Gradients and Separation</i></b>
12:00 - 13:00	Lunch
13:00 – 14:30	<b>Symposium – part 3</b> <b>Johan Meyers</b> (Katholieke Universiteit Leuven) <b><i>Development and Validation of Wind-Farm Blockage and Wake Models</i></b> <b>Thierry Magin</b> (von Kármán Institute for Fluid Dynamics, Université Libre de Bruxelles) <b><i>Modeling and Numerical Simulation of Hypersonic Flows</i></b> <b>Alessandro Parente</b> (Université Libre de Bruxelles) <b><i>Data-driven, Physics-informed Simulation of Turbulent Reacting Flows: Current State, Challenges and Perspectives</i></b>
14:30 – 15:00	Coffee

### Finals of the 18<sup>th</sup> ERCOFTAC Da Vinci Competition

Venue: [University of Liège, Rectorat, Salle Académique, Batiment A1, Place du 20 Août 7-9, 4000 Liège](#)

15:00 – 15:20	<b>Niklas Hidman</b> (Chalmers University of Technology, Sweden) <i>Dynamics of Bubbles across Scales</i>
15:20 – 15:40	<b>Christian Lagemann</b> (RWTH Aachen University, Germany) <i>Deep Recurrent Neural Networks for Optical Flow Learning in Particle-Image Velocimetry</i>
15:40 – 16:00	<b>Esther Lagemann - Mäteling</b> (RWTH Aachen University, Germany) <i>Modal Scale Decomposition in Turbulent Flows</i>
16:00 - 16:20	<b>Javier Sierra-Ausin</b> (IMFT Toulouse, France) <i>Mode interactions in External Flows</i>
16:20 – 16:40	<b>Kamila Zdybał</b> (Université libre de Bruxelles, Belgium) <i>Reduced-Order Modeling Of Turbulent Reacting Flows Using Data-Driven Approaches</i>
16:40 – 17:10	<i>Coffee Break / Committee meets and selects a winner</i>
17:10 – 17:40	<b>Da Vinci Award Ceremony and Closing</b>
19:30	<b>Gala Diner at the restaurant: <i>Histoire Sans Faim</i>; Rue Sebastien Laruelle 3, 4000 Liege</b>

### Day 2: Friday, 13<sup>th</sup> October 2023

Venue: [Salle du Décanat, Institut de Mathématiques, B37, Sart-Tilman Campus, University of Liege](#)

#### Technical and Committee Meetings

#### Scientific Programme Committee (SPC) and Knowledge Network Committee (KNC) Managing Board (MB) and General Assembly (GA) Meetings

09:00 - 12:00	<b>SPC and KNC Meetings</b>
12:00 - 13:00	<i>Lunch</i>
13:00 - 15:30	<b>MB and GA Meetings</b>
15:30 - 16:30	Lab visits: Hydraulics, Thermodynamics and Wind Tunnel

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