## **SCIENTIFIC PROGRAMME**

## **ERCOFTAC Workshop organised by PC Nordic and ERCOFTAC Da Vinci Competition**

KTH Royal Institute of Technology, Main Campus, Lindestedtsvagen 26, Stockholm, Sweden

Venue: F3

## Thursday, 13<sup>th</sup> October 2016

09:00	Registration, Coffee
09.40	Welcome and Opening
Localita de La adecima a	
09:50	Invited Lectures Space-time cut finite element method,
03.30	Sara Zahedi, KTH Math., Linné FLOW Centre
10:10	Transition to turbulence control by means of spanwise mean velocity gradients, Jens Fransson, KTH Mech., Linné FLOW Centre
10:30	Simulations of suspensions of rigid particles, Luca Brandt, KTH Mech., Linné FLOW Centre
10:50	Coffee Break
11:20	Towards decoding Centrifugal Compressor Flow Instabilities, Mihai Mihaescu, KTH Mech., Linné FLOW Centre
11:40	High-fidelity simulations of turbulence on wings, Ricardo Vinuesa, KTH Mech., Linné FLOW Centre
12:00	Some examples of fluid mechanics research activities at Scania, Mattias Chevalier, Scania
12:30	Lunch
Da Vinci Student Award Presentations	
14:00	Presentation1: Manipulation of 3D Turbulent Wakes: Shear Layer Forcing and Drag Reduction - Diogo Barros, University of Poitiers, France
14:20	Presentation 2: Hydrodynamics and Thermodynamics of Ice Particle Accretion - Daniel Martin Kintea, Technische Universität Darmstadt, Germany
14:40	Presentation 3: Application of data assimilation to computational fluid dynamics: from isotropic turbulence to urban flows - <i>Vincent Mons, University of Sorbonne, France</i>
15:00	Coffee break
15:30	Presentation 4: Direct Numerical Simulations of bubbles in turbulent flows with heat transfer Claudio Santarelli, Technische Universität Dresden, Germany
15:50	Presentation 5: A homogenization approach for large-scale flows interacting with fine-grained poroelastic media - <i>Giuseppe A. Zampogna, University of Genova, Italy</i>
16:10	Panel retires
16:40	Award Ceremony: medals, certificates and winner's prize
20:00	Dinner at restaurant

WiFi

Account: KTH-Conference Passwd: fVVCewXNLA Also eduroam is available

Dinner: 20.00 Beirut Café

Engelbrektsgatan 37 <a href="https://www.beirutcafe.se">www.beirutcafe.se</a>

Menu (Meze + mixed grill) 450 sek on own expenses

