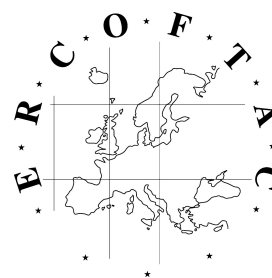


ERCOFTAC Autumn Festival 2017

12th ERCOFTAC da Vinci Competition

October 5-6, 2017

Delft University of Technology - Science Centre
Mijnbouwstraat 120
2628 RX Delft, The Netherlands



Scientific Program

Thursday, October 5, 2017

- 9:00 Registration and Coffee
- 9:30 Welcome and Opening Session
Stefan Hickel, *TU Delft host and chairman of the Scientific Program Committee (SPC)*
Ananias Tomboulides, *Chairman of ERCOFTAC*
GertJan van Heijst, *Scientific Director of the J.M. Burgerscentrum (JMBC)*
- 10:00 JMBC Session 1
10:00 Roel Verstappen: *Minimum-dissipation models for large-eddy simulation of turbulence*
10:20 Steve Hulshoff: *Goal-oriented approximations of unresolved scales*
10:40 Johan Kok: *A stochastic backscatter model for detached eddy simulations*
- 11:00 Coffee Break
- 11:20 JMBC Session 2
11:20 Marios Kotsonis: *Towards control of crossflow instability using plasma actuators*
11:40 Rudie Kunnen: *Turbulent rotating convection to the extreme*
12:00 Francesco Avallone: *Rotor/stator interaction noise mitigation with wavy leading edge*
12:20 René Pečnik: *Characterizing and modeling of turbulent heat transfer to supercritical fluids*
- 12:40 Lunch at the Botanical Garden
- 14:00 JMBC Session 3
14:00 Christian Diddens: *Evaporating multi-component droplets*
14:20 Richard Stevens: *Interaction between large wind farms and the turbulent atmospheric boundary layer*
14:40 Wim-Paul Breugem: *Interface-resolved DNS of dense suspensions in turbulent channel flow*
- 15:00 Coffee Break
- 15:20 ERCOFTAC Da Vinci Competition
15:20 Vincenzo Citro: *Unsteady and three-dimensional fluid dynamic instabilities*
15:40 Nicolò Fabbiane: *Transition delay in boundary-layer flows via reactive control*
16:00 Varghese Mathai: *Dynamics of buoyant particles in turbulent flows*
16:20 Ashish Patel: *Universal characterization of wall turbulence for fluids with strong property variations*
16:40 Lennart Schneiders: *Particle-resolved analysis of turbulent multiphase flow by a novel cut-cell method*
- 17:00 Refreshments and typical Dutch *borrelhapjes*; the ERCOFTAC da Vinci Jury retires
- 17:30 ERCOFTAC Da Vinci Award Ceremony
- 18:00 Lab tour: [Process & Energy Lab](#) and [Low-Speed Aerodynamics Lab](#)
- 19:30 Joint walk to city center of Delft
- 20:00 Dinner at restaurant [De Waag](#) (Markt 11, 2611GP Delft)

Administrative Program

Friday, October 6, 2017

- 9:00 Scientific Program Committee (SPC) and Knowledge Network Committee (KNC) meetings in parallel
- 11:30 Short break (refreshments will be served during the meetings)
- 11:40 Joint SPC and KNC meeting
- 12:40 Lunch at the Botanical Garden
- 14:00 Managing Board meeting
- 16:30 General Assembly
- 17:00 Closing