

SCIENTIFIC PROGRAMME

ERCOFTAC Workshop organised by PC France West

CORIA UMR 6614, Université de Rouen, Avenue de l'Université,
76801 Saint Etienne du Rouvray, Rouen, France

"Conference Room"

Wednesday, 15th October 2014

9:00 Registration

9.30 *Opening by representation of the CORIA laboratory and the University of Rouen -
Prof. Mourad Boukhalfa*

10:00 *"New paradigms in turbulent combustion modelling" – Prof. Luc Vervisch*

10:15 *"Numerical study of Precessing Vortex Core/spray interactions in realistic swirling flows" -
Dr. Vincent Moureau*

10:30 Coffee break

11:00 *"Small scale turbulence interaction with the early stages of premixed flame ignition and
propagation" – Prof. Bruno Renou*

11:15 *"Non-linear acoustic effects on air-assisted liquid jets" - Dr. Jean-Bernard Blaisot*

11:30 *"Combined laser diagnostics for turbulent flame investigation" - Dr. Armelle Cessou*

11:45 *"Variable-viscosity flows" – Prof. Luminita Danaila*

12:00 *"Turbulent mixing in active variable density flows: Theory and simulation for modelling" -
Dr. Benoît-Joseph Gréa*

12:30 Lunch

Da Vinci Student Award Presentations

13:30 *"The challenges of multiscale flow simulations" – Prof. Stephane Zaleski*

14:20 *"Slip, wetting and nucleation on rough surfaces" – Dr. Alberto Giacomello*

14:40 *"Convection in Porous Media, and implications for CO2 sequestration" – Dr. Duncan Hewitt*

15:00 Coffee break

15:40 *"Controlled deformation, rupture and dewetting of thin liquid films on partially-wetting
substrates" – Dr. Christian Berendsen*

16:00 *"Modeling and Simulation of Multiphase Phenomena with Smoothed Particle Hydrodynamics" -
Dr. Stefan Adami*

16:20 *"Predicting the motion of an individual cell in flow" – Dr. Lailai Zhu*

16:40 Panel retires

17:15 **Award Ceremony:** Medals, certificates and winner's prize

19:00 **Pedestrian guided tour of Rouen**

20:30 Dinner at Restaurant Le Rouennais, 5, rue de la Pie, 76000 Rouen www.le-rouennais.fr

ERCOFTAC COMMITTEES MEETINGS

SCHEDULE

CORIA UMR 6614, Université de Rouen, Avenue de l'Université,
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Thursday, 16th October 2014

- 9:00 - 11:30** Scientific Programme Committee and Knowledge Network Committee meetings
to be held in parallel
SPC: "Conference Room" of CORIA
KNC: "Council Room" of CORIA
- 11.30 - 12.30** Joint SPC and KNC meeting in "Conference Room" of CORIA
- 12:30 - 14:00** **Working lunch** to discuss future collaboration of the SIGs and SIG leaders with the KNC and the IEO for the delivery of new courses, BPGs and events
- 14:00 - 17:00** Managing Board – General Assembly Meeting
to be held in the same room
MB-GA: "Conference Room" of CORIA
- 17:00** **Close of Autumn Festival**

