

# International Workshop on Fluid-Structure Interaction

Foz do Arelho, Portugal, September 6–8, 2010

## Conference Program

### September 5

- 18h30 Transportation Lisboa – Foz do Arelho  
20h00 Welcome reception at INATEL Foz do Arelho

### September 6

- 9h30–9h45 Opening  
*Chair Person:* Jean Pierre Raymond  
9h45–10h35 Adélia Sequeira (Lisbon): *3D FSI non-Newtonian blood flow modeling and simulations*  
10h40–11h30 Matthieu Hillairet (Paris): *Influence of boundary conditions on the close-to-contact dynamics of solids inside a viscous fluid*  
11h35–12h25 Céline Grandmont (Paris): *Mathematical and numerical analysis of some fluid-structure interaction problems*  
12h30–14h00 Lunch  
*Chair Person:* Céline Grandmont  
14h30–15h20 Lionel Rosier (Nancy): *Control of the motion of a boat*  
15h25–15h55 Erica Schwindt (Nancy/Santiago): *Existence of Strong Solutions for a Problem of Interaction between a Deformable Structure and an Incompressible Fluid*  
15h55–16h10 Coffee break  
16h10–17h00 Alexandre Munnier (Nancy): *Locomotion of a shape-changing body in a perfect fluid*  
17h05–17h30 Jérôme Lohéac (Nancy): *Self-propelling of a sphere at low Reynolds number*

### September 7

- Chair Person:* Adélia Sequeira  
9h30–10h20 Jean Pierre Raymond (Toulouse): *Strong solutions of systems coupling elastic structures with the Navier-Stokes equations*  
10h25–11h15 Mads Kyed (Darmstadt): *Steady-State Navier-Stokes Flows Past a Rotating Body: Leray Solutions are Physically Reasonable*  
11h15–11h30 Coffee break  
11h30–12h20 Olivier Glass (Paris): *On the motion of a rigid body in an incompressible perfect fluid I*  
12h30–14h00 Lunch  
*Chair Person:* Lionel Rosier  
14h30–15h20 Franck Sueur (Paris): *On the motion of a rigid body in an incompressible perfect fluid II*  
15h25–15h55 Yu Ning Liu (Nancy): *Analysis of a phase field model for vesicles*  
15h55–16h10 Coffee break  
16h10–17h00 Matthias Geißert (Darmstadt): *Fluid rigid-body interaction*  
20h00 Conference dinner

## September 8

<i>Chair Person:</i>	Olivier Glass
9h30–10h20	Simone Deparis (Lausanne): <i>Parallel algorithms for fluid-structure interaction and application to cardiovascular flows</i>
10h25–10h55	Alexandra Moura (Lisbon): <i>Absorbing boundary conditions for fluid-structure interaction problems in compliant vessels</i>
10h55–11h10	Coffee break
11h10–12h00	Muriel Boulakia (Paris): <i>Regular solutions for an interaction problem between a compressible fluid and an elastic structure</i>
12h00–12h15	Closing
12h15	Lunch and transportation Foz do Arelho – Lisboa

All talks will take place at INATEL Foz do Arelho, room "José Malhoa"