

Fluid-structure interaction: Methods and applications

The mini-symposium focus on advances in computational fluid-structure interaction (FSI) problems. The presentations will cover a wide range of applications, including aerodynamics, renewable energy (e.g. wind turbines, land and airborne, wave energy converters, hydro-power), biomedicine, aerospace and aerodynamics, civil engineering (bridges and buildings).

The topics to be discussed include:

- Partitioned and staggered methodologies
- Embedded and Arbitrary Lagrangian-Eulerian methods
- Multiphysics coupling methods
- High Performance Computing in FSI
- Theoretical developments in FSI and moving boundaries
- Industrial applications

Organizers:

- Laura Battaglia*, lbattaglia@santafe-conicet.gov.ar .
- Jorge D'Elía*, jdelia@santafe-conicet.gov.ar
- Luciano Garelli*, lucianogarelli@gmail.com .
- Gustavo Ríos Rodríguez*, gusadrr@santafe-conicet.gov.ar
- Mario Storti*, mario.storti@gmail.com.
- Marcela Cruchaga**, marcela.cruchaga@usach.cl.

*CIMEC Centro de Investigación en Métodos Computacionales (Consejo Nacional de Investigaciones Científicas y Técnicas - Universidad Nacional del Litoral), Argentina

** Universidad de Santiago de Chile, Chile.