FLUID-STRUCTURE INTERACTION: METHODS AND APPLICATIONS

Marcela Cruchaga[1] and Mario Storti*[2] and Laura Battaglia[2] and Luciano Garelli[2]*

[1]Universidad de Santiago de Chile

[2]CIMEC Centro de Investigación en Métodos Computacionales (Consejo Nacional de Investigaciones Científicas y Técnicas - Universidad Nacional del Litoral)

MINISYMPOSIUM

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