

## FLUID SIMULATION BY PARTICLE METHODS

A.C. Limache<sup>1</sup>

<sup>1</sup>*International Center of Computational Methods in Engineering (CIMEC)  
INTEC-CONICET. Santa Fe, Argentina.  
<http://www.cimec.org.ar/alimache>*

**Keywords:** particle methods, meshless methods, large deformations, flow simulation

**Abstract.** Particle and meshless methods are new computational approaches for performing flow simulations. These modern methods are receiving a great deal of interest by the scientific community and the industry. In this article, we show some recent numerical flow simulations that we have obtained using a particle finite element method developed at CIMEC. The simulations show some of the potentials of the method.

---

<sup>1</sup>Researcher of CONICET, [alejandrolimache@gmail.com](mailto:alejandrolimache@gmail.com)