SHAPING A WORLD-CLASS UNIVERSITY

Computational Thermo-Fluid Dynamics in single and two-phase flows using open source software

26th – 29th April 2022

Dr. Mirco Magnini

Department of Mechanical, Materials and Manufacturing Engineering
University of Nottingham (UK)

Computational Thermo-Fluid Dynamics in single and two-phase flows using open source software

CONTENTS OF THE SHORT COURSE
o Introduction to OpenFOAM and solution of a heat conduction problem
o Fluid flow and the incompressible flow solver *icoFoam*
o Introduction to multiphase flows
o Advanced topics: function objects, coded boundary conditions, *snappyHexMesh*, phase-change

SCHEDULE AND VENUE: Classrooms at Via Venezia 1 , Padova
o Tuesday 26th April   h. 16:30 - 18:30 *Aula informatica B*
o Wednesday 27th April   h. 16:30 - 18:30 *Aula informatica A*
o Thursday 28th April   h. 16:30 - 18:30 *Aula informatica B*
o Friday 29th April   h. 16:30 - 18:30 *Aula informatica B*

NOTES
The short course is addressed to Master's students of Energy Engineering. PhD students and students from other Master's degree programmes can be admitted upon request, based on availability.
If you are interested to participate please write to Dr. Stefano Bortolin (e-mail: stefano.bortolin@unipd.it) before April 26 at 11 am.