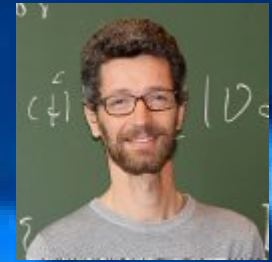


Numerical Models of Surface Tension

Friday, November 11th

4:00 PM

Maeder Hall, ACEE



Stéphane Popinet

Director of Research CNRS
Institut d'Alembert Université Paris
Sorbonne

Surface tension is the driving force of a large number of phenomena of great theoretical and practical importance. In this seminar I will attempt to give a general overview of the theoretical and numerical techniques available to accurately model surface tension at the interface between fluids of different properties. I will also discuss the related issue of efficient representation of multiscale, multiphase flow phenomena, with examples of application including drop impact dynamics, bubble bursting and wave breaking.

Stéphane Popinet got his PhD under the direction of Stéphane Zaleski at Paris 6 university in 2000 and then worked as a research scientist at the National Institute of Water and Atmospheric research (NIWA), Wellington, New Zealand until 2013, when he joined Institut d'Alembert of Université Pierre et Marie Curie (UPMC), Paris where he now is a CNRS Directeur de Recherche. He is the author of the Gerris (gfs.sf.net) and Basilisk (basilisk.fr) free software packages for fluid mechanics.

Social period outside of Maeder Hall following the seminar
All are welcome



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