

UNIVERSITÀ DEGLI STUDI DI GENOVA

SCUOLA DI DOTTORATO DI MECCANICA DEI FLUIDI E DEI SOLIDI
Dottorato in Fluidodinamica e Processi dell'Ingegneria Ambientale
Progetto Marie Curie EST "FLUBIO"

AVVISO DI SEMINARIO

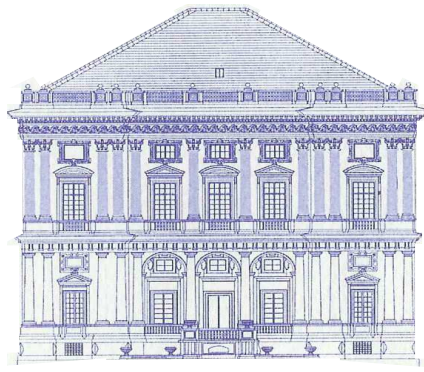
"Sedimentation of small particles"

Dr. Élisabeth Guazzelli

Institut Universitaire des Systèmes Thermiques Industriels
UMR CNRS 6595
Polytech'Marseille

Marseille, France

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Facoltà di Ingegneria,
Aula A11, atrio DICAT
Villa Giustiniani Cambiaso



Per informazioni contattare il Coordinatore del corso di Dottorato
Prof. Alessandro Bottaro, bottaro@dicat.unige.it

Facoltà di Ingegneria, DICAT, 1 via Montallegro, 16145 Genova

Tel. +39 010 353 2493

Fax: +39 010 353 2546

email: rosella@diam.unige.it



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Sedimentation of small particles

Although sedimentation can be considered as one of the simplest examples of suspension flow, much remains unknown about the fundamental properties of sedimenting suspensions. The problem that one encounters lies in the long range nature of the multibody hydrodynamic interactions between particles. This will be illustrated for sedimenting suspensions of spheres, of non-spherical particles such as fibers, and for sedimenting clouds of particles.

Biographical sketch of Élisabeth Guazzelli

Élisabeth Guazzelli is Senior Researcher (*Directeur de Recherche*) at the CNRS, and affiliated with the IUSTI Laboratory of Polytech'Marseille, for which she is Adjoint Director. A physicist by training, her research interests are in the field of particulate multiphase flows, such as granular media, avalanches, suspensions, and sedimentation. She is responsible of a very active and diversified research group in Marseille composed by some ten people. Since 2005 she is Associate Editor of the *Journal of Fluid Mechanics*.