



ESPCI
Laboratoire PMMH
10 rue Vauquelin, 75231 Paris Cedex 05



Séminaire café - PMMH

Bureau d'Études, Batiment L, 2^{ème} étage

Jeudi 15 juin 2017, 13h30

Pierre-Yves Gires

Post-doctorant, candidat au poste d'ATER

Characterisation and manipulation of microcapsule suspensions

Microcapsules, as submillimetric droplets embedded within a membrane, are present both in natural and artificial suspensions (e.g. cells in blood, microalgae cultures, drug vectors in microcirculation). Improvements in their efficient characterisation and manipulation can lead for instance to better drug vectorisation or bioenergy harvesting. We will first present a microfluidic device that allows to probe the membrane viscoelastic properties, then a study of the hydrodynamic interactions effect on lateral diffusion, and finally how acoustical ultrasonic fields can be amplified, including via bubble resonance, to concentrate or deplete locally such suspensions.

Prochain séminaire : jeudi 29 juin 2017 à **13h30**,
À déterminer.

Programme des séminaires café : <https://www.pmmh.espci.fr/?-Seminaire-Cafe-Interne->
Contacts : Charles Duchêne (charles.duchene@espci.fr) et Armelle Gas (armelle.gas@espci.fr)