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Laboratoire PMMH  
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EDUCATION SCIENCE INNOVATION

## Séminaire café - PMMH

*Bureau d'Études, Batiment L, 2<sup>ème</sup> étage*

*Jeudi 29 septembre 2016, 13h30*

### Guangyin Jing

Professeur invité au PMMH, ESPCI

**Drying problems in colloidal suspension.**

Drying is ubiquitous in industry and our daily life. On the one hand, stress is accumulated during the drying of the suspensions, and inevitably results in the cracks in the dry deposit. On the other hand, the controllable drying is employed to assemble unique nano/micro structured materials, which however suffers from the diverse heterogeneous patterns due to the complicated drying dynamics. In this talk, I would like to discuss the drying from the both dilute and concentrated colloidal suspensions, to understand the hydrodynamics, crack pattern formation, and the interactions between the colloidal particles. The phase separation model is proposed to explain the pattern formation, and finally the diffusion reduction by the coupling motion of the colloidal particles in confined geometry, is also demonstrated as well.

Prochain séminaire : jeudi 13 octobre 2016 à **13h30**,  
Matthieu Labousse (post-doctorant au MPQ, Université Paris Diderot).

Programme des séminaires café : <https://www.pmmh.espci.fr/?-Seminaire-Cafe-Interne->  
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