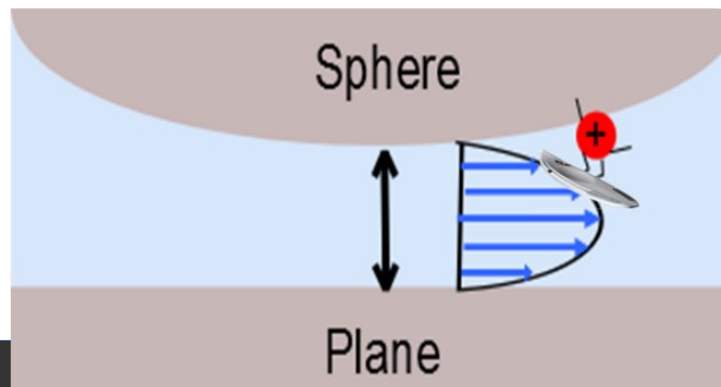


# PHD SEMINAR #5

04/03/2016 - 16H - CONF ROOM

Léo Garcia:

Electric double layer (EDLs) are involved as soon as a liquid-solid interface is at stake, as in biology membrane, porous media... After a brief overview of the EDLs, I will show previous quantitative experiments, that lead to strongly inconsistent results. Our investigation brings a new approach to characterize the EDLs that might clarify previous results.



Matthieu Martin:

Alga culture has gained increased interest from both scientific and industrial communities over the last decades, due to the great potential of microalgae for bio-production, as well as for pollution control and remediation.

In a recent experimental study, we have shown that photo-sensitive algae could be efficiently concentrated around the center of a flow when stimulated by a light signal (see our Research News for more details).

In the present project, the aim is to further understand the hydrodynamic properties of phototactic microalgae suspensions under light stimulation, and investigate the role of hydrodynamic interactions in dispersion processes.

