

**DYSCO Meeting : « *Dynamics and collective effects in simple and complex media* »
Château d'Herbelon, May 18-19 2015**

Monday morning

| | | |
|--------|--------------|---|
| 9 :20 | Welcome | |
| 9 :30 | M. Bergmann | Modélisation et simulations numériques d'écoulements chargés en particules |
| 10 :15 | M. Jedouaa | An efficient interface capturing method for a large collection of interacting objects immersed in a fluid |
| 10 :35 | break | |
| 10 :55 | F. Descoubes | Geometry and mechanics of fibers : some numerical models |
| 11 :40 | L. Schaedel | Microtubules self-repair in response to mechanical stress |
| 12 :00 | C. Dapogny | Multi-phase optimization vi a level-set method |

12 :30 - Lunch

Monday afternoon

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|--------|--------------|--|
| 14 :00 | D. Amitrano | Invariance d'échelle et précurseurs de la rupture |
| 14 :45 | A. Amon | Emergence de bandes de cisaillement dans un milieu granulaire |
| 15 :30 | break | |
| 15 :50 | A. Wirth | Interaction and energy transfert between an atmopspheric and an oceanic layer at the synoptic and the meso-scale |
| 16 :15 | P. Larroudé | Simulate the wind-wave attenuation on sea-grass meadow in Berre lagoon with Tomawac and GPUSPH 3D |
| 16 :35 | E. Agoritsas | Revisiting mean-field elasto-plastic models at the mesoscopic scale |
| 16 :55 | C. Liu | The nature of avalanche dynamics in the flow of yield stress materials |

20 :00 Dinner

Tuesday morning

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|--------|------------|---|
| 9 :00 | A. Decoene | Microscopic modelling and direct simulations of active suspensions |
| 9 :45 | P. Peyla | Jet formation of micro-algae in a channel. Stability and dynamics |
| 10 :05 | M. Martin | Hydrodynamic dispersion of micr-swimmers in suspension |
| 10 :25 | break | |
| 10 :45 | O. Aouane | Clustering of vesicles : intricate coupling between the confinement and the hydrodynamic interactions |
| 11 :05 | G. Prado | Confined startup of red blood cells |
| 11 :25 | C. Misbah | Some collective phenomena in blood flow |

12 :30 - Lunch

14 :00 - Bus