



Programme Montoulouse 2017

Institut de Botanique, 163 Rue Auguste Broussonnet, Montpellier

Thursday 15 June

10h Welcome coffee

10h30 Presentation Montoulouse

Session: Physics of biological systems I (Chairwoman: Laura Casanellas)

10h40	Gladys Massiera-keynote (L2C)	Biophysical approach of the mucociliary function: mucus rheology and beating coordination
11h20	Patrice Baccin (LGC)	Microchannel clogging by colloidal and biological particles
11h40	Simon Mendez (IMAG)	Rolling of red blood cells under shear flow
12h00	Alexey Brodoline (L2C)	4D digital holographic microscopy of zebrafish microcirculation
12h20	Flash poster presentation (Pimienta/El Itawi /Merlo /Jory)	

12h30 Lunch

Session: Applications in biological systems (Chairman: Thierry Ondarçuhu)

14h	Anne-Françoise Mingotaud (IMRCP)	Stimuli-responsive hydrogel formulations for biological applications
14h20	Amélie Banc (L2C)	Structure end properties of storage vegetal proteins studied with soft matter tools
14h40	Pierre Joseph (LAAS)	Microfluidics for (possibly soft) nano-objects
15h	Laura Casanellas (L2C)	Microfluidic flow of artificial tissues
15h20	Flash poster presentation (Giusti/Mejia/Poirier/Pincemaille/Constanzo)	

15h30 Coffee break

Session: Nanoparticles and nonomaterials (Chairman: Martin In)

15h50	Christophe Mingotaud-keynote (IMRCP)	Hybrid nanoparticles for MRI applications
16h30	Clément Roux (IMRCP)	Upconverting nanoparticles in bioimaging
16h50	Jean-Daniel Marty/Mathias Destarac (IMRCP)	Thermoresponsive polymers: synthesis and application to the formation of hybrid materials
17h10	Adrian Philippe (L2C)	A combined rheo-light scattering study of polymer nanocomposites under uniaxial strain
17h30	Nancy de Viguier (IMRCP)	Polymeric self-assemblies for nanomedicine: a critical approach
17h50	Flash poster presentation (A.F. Mingotaud/Gaillard/Pommella/Hbib/Villa/Aouini)	

18h-20h **Poster session- apéritif**

Friday 16 June

Session: Capillarity and surface hydrodynamics (Chairman: Antonio Stocco)

9h	Serge Mora-keynote (LMGC)	Instabilities at the surface of elastic materials
9h40	Philippe Tordjeman (IMFT)	Liquid film deformation under a near field oscillating interaction force
10h	Christian Ligoure (L2C)	Drops and beads of gels under extreme deformation
10h20	Benjamin Lalanne (LGC)	Droplet dynamics in the presence of surfactants

10h40 Coffee break

Session: Wetting phenomena (Chairwoman: Veronique Pimienta)

11h10	Thierry Ondarçuhu (CEMES)	Atomic Force Microscopy investigation of the mechanical properties of nanomenisci
11h30	Benjamin Chollet (L2C)	Brownian and active motions of partially wetted colloids
11h50	Domenico Truzzolillo (L2C)	Off-equilibrium surface tension in driven miscible liquids

12h10 Lunch

Session: Structure and dynamics of colloidal suspensions (Chairman: Julian Oberdisse)

13h40	Martine Meireles - keynote (LGC)	Microscale structure and compressive resistance in concentrated packings: examples of microgels and aggregates
14h20	Stefano Aime (L2C)	Microscopic dynamics and failure precursors during the creep of a colloidal gel
14h40	Kevin Roger (LGC)	Drying of complex colloidal dispersions: from colloidal to molecular interactions
15h	Yannick Hallez (LGC)	Modeling the electrostatics of hollow shell suspensions: ion distribution, pair interactions, and many-body effects

15h20 **Collaborative perspectives & conclusions (Pierre Aimar – LGC / Pierre Lefebvre – L2C)**

16h Coffee and cakes

