

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/Meriguet /Jory)

12h30 Lunch

Session: applications in biological systems (Chairman: Thierry Ondorchu)

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 Dario Donnarumma (L2C) Emulsion drops spreading on rough surfaces

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

Jean-Daniel Marty/Mathias Destarac (IMRCP)

16h50 Thermoresponsive polymers: synthesis and application to the formation of hybrid materials

A combined rheo-light scattering study of polymer nanocomposites under uniaxial strain

17h10 Adrian Philippe (L2C)

17h30 Nancy de Viguerie (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- appetitif**

Friday 16 June

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

9h	Serge Mora-keynote (LMGC)	Gravity driven instability in horizontal elastic layers
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