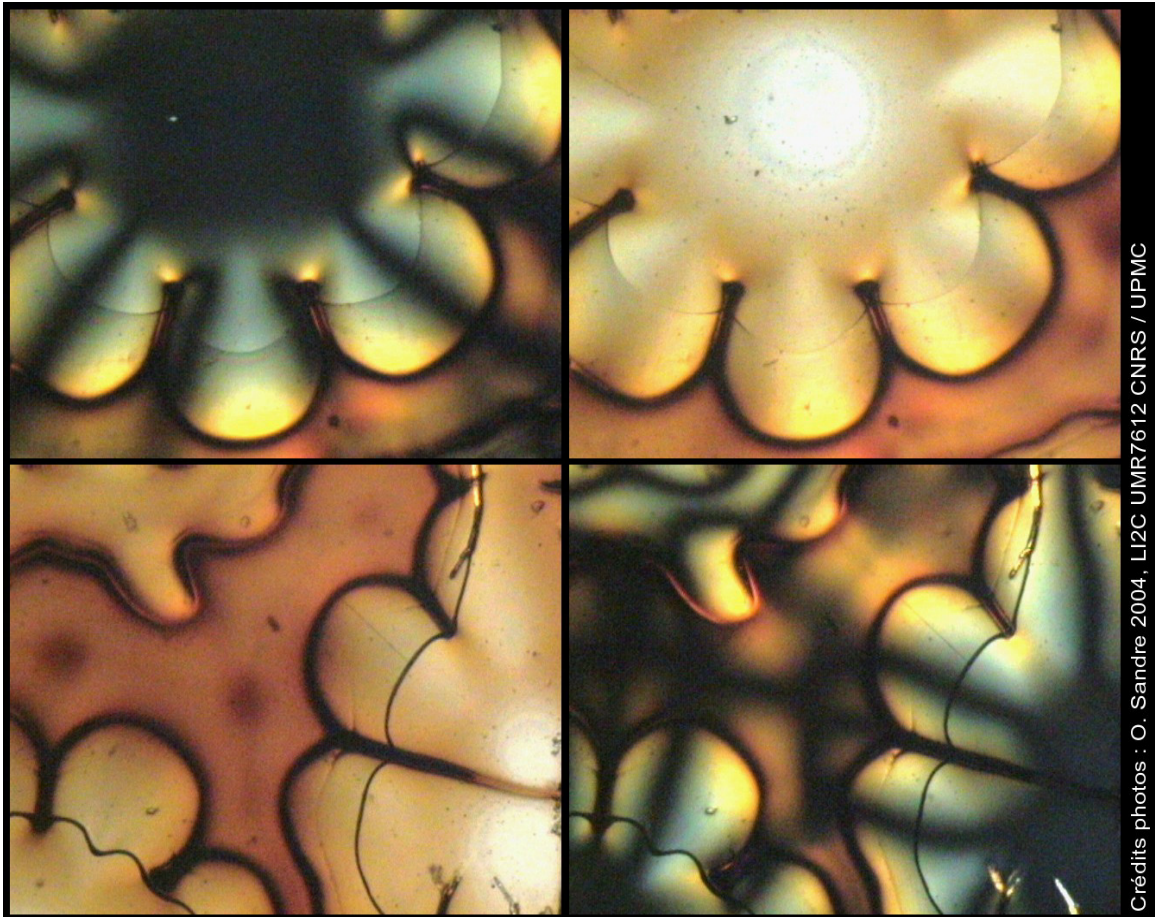


12th French-Japanese Seminar on Magnetic Fluids Paris 2007



20st July 2007

Programme

Universités Paris 6 et Paris 7

Conference site: Université Pierre et Marie Curie – **CAMPUS JUSSIEU**
4 place Jussieu, 75005 Paris – France
Tower 53 Jussieu Floor, Amphi Chouard

9:00 Opening: S. KAMIYAMA & J.-C. BACRI

Chairman: Jean-Claude BACRI

9:15 Shinichi KAMIYAMA
Convective Instability in Stratified Colloids with Soret Effect
Shinichi Kamiyama and Mark Shliomis

9:35 Caroline DEREK
Microchannels for local control of magnetic objects
C.Derec, J.Servais and J.C.Bacri

9:55 Seiichi SUDO
Some Aspects of Interfacial Phenomena on Magnetic Fluid
S.Sudo, H.Wakuda, T.Yano, Y.Kurosu and H.Takayanagi

10:15 Grégory BEAUNE
Encapsulation of magnetic and fluorescent nanoparticles inside giant vesicles
Grégory Beaune, Valérie Cabuil and Christine Ménager

10:35 Noritsugu UMEHARA
Development of Polishing Simulator for Magnetic Intelligent Compound Polishing
Noritsugu Umehara

10:55 – 11:15 Coffee break

Chairman: Andrejs CEBERS

11:15 Vincent ROCHER
Removal of pollutants by magnetic separation
Vincent. Rocher, Ons Znadi, Jean-Michel Siaugue and Agnès Bee

11:35 Y. AKAGAMI
Development of a New Polishing Method using Abrasives Motions Controlled by ER Dispersion under AC. Electric Field
Y. Akagami and N. Umehara

11:55 Emanuel BERTRAND
A kinetic study of molecular recognition based on magnetic colloids
Laetitia Cohen-Tannoudji, Cécile Goubault, Caroline Robic,
Jean Baudry, Jérôme Bibette and Emanuel Bertrand

12:15 Takafumi INAGAKI
Cluster formation of nonmagnetic particles in a kerosene-based magnetic fluid
Takafumi Inagaki, Yasushi Ido, Hiroshige Kikura and Masanori Aritomi

12:35 Bruno FRKA - PETESIC
Polymer stabilized clusters of superparamagnetic nanoparticles
B. Frka-Petesic, J. Fresnais, J.F. Berret, V. Dupuis, R. Perzynski and **O. Sandre**

12:55 – 14:30 Lunch

Chairman: Olivier SANDRE

- 14:30 Kouji TOMIYAMA**
Structure formation of magnetic particles in a liquid under non-uniform magnetic field
Kouji Tomiyama and Yasushi Ido
- 14:50 Claire WILHELM**
Magnetic cell labelling to perform intracellular hyperthermia
Claire Wilhelm, Jean-Paul Fortin, Jean-Claude Bacri and Florence Gazeau
- 15:10 Michael LÉVY**
Influence of nanoparticles size and magnetic anisotropy on magnetically induced hyperthermia
Michael Lévy, Claire Wilhelm, Olivier Horner, Jean-Michel Siaugue, Jan-Claude Bacri and Florence Gazeau
- 15:30 Makoto SUTO**
Theoretical and experimental investigation of heat diffusion from magnetite nanoparticles exposed to AC magnetic field
M. Suto, K. Maruta, M. Ohta, Y. Sato, K. Tohji and B. Jeyadevan
- 15:50 Damien ROBERT**
Rotational microrheology to probe the cell inside
Damien Robert and Claire Wilhelm

16:10 – 16:30 Coffee break

Chairman: Régine PERZYNSKI

- 16:30 Masaaki MOTOZAWA**
Ultrasonic Propagation in a Magnetic Fluid
Masaaki Motozawa
- 16:50 Guillaume FRASCA**
Linear pattern of dictyostelium cells with the use of magnetic forces
Guillaume Frasca, Florence Gazeau and Claire Wilhelm
- 17:10 Takuya KUWAHARA**
Bubble velocity measurement using magnetic fluids
Takuya Kuwahara, Florian De Vuyst and Hiroshi Yamaguchi
- 16:50 Andrejs CEBERS**
Flexible magnetic filaments – properties and behavior
K. Ērglis, D. Zhulenkovs, A. Shapiro and A. Cēbers
- 17:50 Concluding remarks: R. PERZYNSKI**