

**MC25:** Sonder les propriétés d'interfaces fluides par des techniques d'optique linéaire et non-linéaire

Organisateurs : Oriane Bonhomme (ILM, Lyon) & Olivier Diat (ISCM, Marcoule)

**Jeudi 25 août – 15h00 – 18h30**

**Vendredi 26 août – 08h30 – 10h00**

**Session 1 : Jeudi 25 août – 15h00 – 18h30**

|                                      |   |
|--------------------------------------|---|
| 15:00 -<br>15:30<br>INVITÉ<br>MC25-1 | <b>Ultrafast photoinduced processes at liquid interfaces</b><br><br><b>E. Vauthey, J. Sissaoui and G. Licari</b><br><i>Univ. Genève, Genève, Suisse. Eric.Vauthey@unige.ch</i>  |
| 15:30 -<br>15:45<br>MC25-2           | <b>Electronic surfactants at interfaces probed by spectroscopic ellipsometry</b><br><br><b>S. Albert, C. Bae, H. Idriss, I. Sen, S. Richetier, S. Clément, O. Bonhomme and AL Biance</b><br><i>Institut Lumière Matière, Lyon, France. samuel.albert@univ-lyon1.fr</i>                                |
| 15:45 -<br>16:00<br>MC25-3<br>/      | <b>Unravelling the interfacial water structure at the photocatalyst Strontium Titanate by sum frequency generation spectroscopy</b><br><br><b>M. Buessler, S. Maruyama, H. Onishi and E. Backus</b><br><i>Univ Vienna, Vienna, Austria. martin.buessler@univie.ac.at</i>                              |
| 16:00 -<br>16:15<br>MC25-4           | <b>Optorheology of thin non-Newtonian fluid films</b><br><br><b>L. Brivady, G. Verma, JP Delville and T. Salez</b><br><i>LOMA, Bordeaux, France. ludovic.brivady@ens.psl.eu</i>   |
| 16:15 -<br>16:30<br>MC25-5           | <b>Surface Second Harmonic Generation at Liquid-Gas Interface: a Molecular-Based QM/MM approach to Disentangle the Different Contributions</b><br><br><b>G. Le Breton, O. Bonhomme, E. Benichou and C. Loison</b><br><i>Institut Lumière Matière, Lyon, France. guillaume.le-breton@univ-lyon1.fr</i> |

**16h30-17h00 Coffee break**

**17:00 - 17:30** Tailoring the interfacial assembly and the mechanical response of colloidal nanoparticles

**INVITÉ**

**A. Maestro**

**MC25-6**

*IKERBASQUE, Bilbao, Spain. armando.maestro@ehu.eus*

**17:30 - 17:45** Analyse d'une interface liquide/liquide par génération de second harmonique

**M Fery**, A. Pardon, C. Gaillard, O. Bonhomme and E. Benichou

*Institut Lumière Matière, Lyon, France. maxime.fery@univ-lyon1.fr*

**MC25-7**

**17:45 - 18:00** A bubble/drop interferometer to study fluid-fluid interfaces

**P. Brocca**, D. Raciti, L. Cantu, A. Raudino, and M. Corti

*Univ. Of Milan, Milan, Italy. paola.brocca@unimi.it*

**MC25-8**

**18:00 - 18:15** Origin of the second harmonic generation signal at the water-air interface

**Y. Foucaud**, R. Vuilleumier, B. Siboulet, M. Duvail, O. Diat, A. Jonchère and JF Dufrêche

*ICSM, Marcoule, France. yann.foucaud@univ-lorraine.fr*

**MC25-9**

**18:15 – 18:30** Fluctuation dynamics of ultrathin liquid films

**T. Bickel**, C. Clavaud, M. Maza-Cuello, C. Frétigny and L. Talini

*LOMA, Bordeaux, France. thomas.bickel@u-bordeaux.fr*

**MC25-10**

## Session 2 : Vendredi 26 août – 08h30 – 10h00

|                             |  |
|-----------------------------|--|
| 08:30 -<br>08:45<br>MC25-11 | <b>Aqueous Interfaces studied by Nonlinear Spectroscopies</b><br>L Dalstein, YC Wen<br><i>LOMA, Bordeaux, France. laetitia.dalstein@u-bordeaux.fr</i>  |
| 08:45 -<br>09:00<br>MC25-12 | <b>Proteins at the air–solution interface: monitoring adsorption and conformational changes</b><br>S. Pezzenec, V. Lechevalier, C. Le Floch-Fouéré, V. Vié, G. Paboeuf, A. Renault and S. Beaufils<br><i>INRAE, Rennes, France. stephane.pezennec@inrae.fr</i>   |
| 09:00 -<br>09:15<br>MC25-13 | <b>Contactless Opto-Rheology of Newtonian Liquid Films Using Optical Radiation Pressure</b><br>G. Verma, H. Chesneau, H. Chraïbi, R. Wunenburger, U. Delabre and <b>JP Delville</b> ,<br><i>LOMA, Bordeaux, France. jean-pierre.delville@u-bordeaux.fr</i>   |
| 09:15 –<br>09:30<br>MC25-14 | <b>Nanotechnologies associating surface resonant light to probe the displacement of interfaces and the sedimentation of fragmented matter: towards blood viscosity measurements by resonant photonics</b><br>J. Gastebois, L. Garnier, H. Lhermite, N. Coulon, H. Cormerais, A. Saint-Jalmes, V. Vié, A. Groussin, D. Colorado De Faria, F. Jandoubi and <b>B. Bêche</b><br><i>IETR, Rennes, France. bruno.beche@univ-rennes1.fr</i> |
| 09:30 -<br>09:45<br>MC25-15 | <b>Second Harmonic Scattering in Colloidal Suspension: from polarization resolved measurements to microscopic organization</b><br>PM Gassin, B. Prelot and G. Martin-Gassin<br><i>ICGM, Montpellier, France. pierre-marie.gassin@enscm.fr</i>  |
| 09:45 –<br>10:00<br>MC25-16 | <b>A close look to the rim bounding a free expanding viscous liquid sheet using a time and space resolved transmittance technique</b><br>CA Charles, L. Ramos and <b>C. Ligoure</b><br><i>Laboratoire Charles Coulomb, Montpellier, France. christian.ligoure@umontpellier.fr</i>  |

## Posters

**MC25-17      The Role of Self-Emulsification in Oil Extraction to Increase Reservoir Recovery**

**D. Puentes Rivas**, A. Klimenko, E. Santanach-Carreras, M. Bourrel, N. Passade-Boupat, P. Panizza, F. Lequeux  
*Total Energie, Lacq, France. [duala.puentes@totalenergies.com](mailto:duala.puentes@totalenergies.com)*

**MC17-18      Probing liquid interfaces with room-temperature ionic liquids using the excited-state dynamics of a cationic dye**

**J. Sissaoui**, DS Budkina and E. Vauthey  
*Univ. Genève, Genève Suisse, [eric.vauthey@unige.ch](mailto:eric.vauthey@unige.ch)*

**MC25-19      Light-Responsive Arylazopyrazole Amphiphiles at Extended and Nanoscopic Oil-Water Interfaces**

**Dana Glikman**, Michael Hardt, Christian Honnigforth and Björn Braunschweig  
*Univ Munster, Munster Germany. [d\\_glik01@uni-muenster.de](mailto:d_glik01@uni-muenster.de)*

**MC17-20      Role of Alkyl Tails on the Structure and Photoswitching Ability of Arylazopyrazole Sulfonate Surfactants at Air-Water Interfaces**

**M. Hardt**, F. Busse, C. Honnigfort, J. Carrascosa- Tejedor, S. Raschke, P. Gutfreund, R. A. Campbell, A. Heuer and B. Braunschweig  
*Univ Munster, Munster Germany. [m.hardt@wwu.de](mailto:m.hardt@wwu.de)*