

Photonics & Optoelectronics @ UL

November 21, 2023

Amphithéâtre CentraleSupélec, 2 rue E. Belin, Metz

08:45 Welcome

- 09:00 **Introduction**
- 09:15 **Coupling in situ characterization techniques for nanostructured stereocomplex PLA copolymers used in new drug delivery applications**
David CHAPRON, LMOPS
- 09:30 **Contribution of optical spectroscopies to the characterisation of biological objects: examples of applications to bacteria and mammalian cells**
Fabienne QUILES, LCPME
- 09:45 **Highly-doped semiconductor nanocrystals for infrared absorption**
Mathieu STOFFEL, IJL
- 10:00 **Engineering of plasmon-based nanomaterials for photocatalysis**
Suzanna AKIL, LCP-A2MC
- 10:15 **Coffee break**
- 10:45 **Réseau Thématique de Recherche (RTR) "Institut de Photonique"**
Marc SCIAMANNA, LMOPS
- 11:00 **Penta- and heptamethine cyanines derivatives: from synthesis and optical properties optimization to biological applications**
Katalin SELMECZI, L2CM
- 11:15 **Robust photonics using analogies with quantum dynamics**
Virginie CODA, LMOPS
- 11:30 **Phonons-polaritons in mixed semiconductors**
Andrei POSTNIKOV, LCP-A2MC
- 11:45 **Photobiological characterization of photoactive nanoparticles for diagnostics and therapy**
Henri-Pierre LASSALLE, CRAN
- 12:00 **Broad-area VCSELs: complex and chaotic dynamics**
Stefan BITTNER, LMOPS

12:15 Lunch

- 13:45 **Visit of LMOPS Laboratory**
- 14:45 **Presentation of the Technical Platform (TP5) of the interdisciplinary program project MAT-PULSE: "Optoelectronics"**
Thomas KAUFFMANN, LMOPS
- 15:00 **Presentation of the Technical Platform (TP7) of the interdisciplinary program project MAT-PULSE : "Characterization of Biological Material"**
Marine AMOUROUX, CRAN
- 15:15 **Characterization of optical properties of urinary stones using hyperspectral imaging, terahertz imaging and integrating sphere measurements: preliminary results**
Walter BLONDEL, CRAN
- 15:30 **Illuminating light-switching materials with photo-NMR**
Axel GANSMULLER, CRM2
- 15:45 **Coffee break**
- 16:15 **Photo-induced doping in h-BN: towards an innovative DUV LED structure**
Jean-Paul SALVESTRINI, Georgia Tech Europe
- 16:30 **Graphene Quantum Dots: valuable luminescent carbon-based nanomaterials**
Philippe PIERRAT, L2CM
- 16:45 **Optoelectronics of porous metal-organic frameworks**
Valentin MILICHKO, IJL
- 17:00 **Final discussion**



Journée scientifique organisée dans le cadre de la dynamique interdisciplinaire de "Lorraine Université Excellence"

