

# Optoelectronics & photonics @ UL

June 15, 2023

Campus ARTEM, Amphi 200, Nancy

## 08:30 Welcome

- 09:00** *Introduction*
- 09:15** **Combining surface/interface chemical functionalization with optical spectroscopies and/or AFM to develop new biomedical devices**  
Manuel DOSSOT, LCPME
- 09:30** **Optical and THz spintronics**  
Jon GORCHON, IJL
- 09:45** **Photonics-based Machine Learning for advanced data processing**  
Damien RONTANI, LMOPS
- 10:00** **Liquid metamaterials: Harnessing light at the nanoscale**  
Alexander ZHAROV, IJL
- 10:15** **Non-linear dynamics in optics and electronics for signal and information processing**  
Alexandre LOCQUET, GT-IRL

## 10:30 Coffee break

- 11:00** **Low dimensional semiconductor structures: from plasmonics up to spin injection**  
Mathieu STOFFEL, IJL
- 11:15** **Hybrid perovskites for optoelectronics, light detection and emission**  
Sébastien PILLET, CRM2
- 11:30** **All-Oxide Semiconductor Thin Films for Efficient and Low-Cost Solar Cells**  
Sidi Ould Saad HAMADY, LMOPS
- 11:45** **Optoelectronic properties of oxides, nitrides and high entropy alloys thin films**  
Jean-François PIERSON, IJL
- 12:00** **Quasi Van der Waals epitaxy: a technological revolution for the monolithic 3D integration of optoelectronic systems**  
Jean-Paul SALVESTRINI, GT-IRL
- 12:15** **Ternary and quaternary quantum dots for optoelectronic and biological applications**  
Raphaël SCHNEIDER, LRGP

## 12:30 Lunch

- 14:00** **Visit of « Institut Jean Lamour »**
- 15:00** **Plasmonic Nanoparticles for catalysis and SERS sensors : synthesis and optical analysis**  
Aotmane EN NACIRI, LCP-A2MC
- 15:15** **Photoactive iron complexes as sensitizers for DSSCs**  
Philippe GROS, L2CM
- 15:30** **Possible interest of oriented and functionalized mesoporous silica films in optoelectronics**  
Alain WALCARIUS, LCPME
- 15:45** **Vibrations in Semiconductor Alloys**  
Olivier PAGES, LCP-A2MC

## 16:00 Coffee break

- 16:30** **Multimodal optical spectroscopy for human skin cancer in vivo diagnosis**  
Walter BLONDEL, CRAN
- 16:45** **Bioinspired photoswitches as molecular tools for light-assisted therapy**  
Andréa PASC, L2CM
- 17:00** **Cyanine-based molecular and nanosized phototheranostic agents**  
Yann BERNHARD, L2CM

## 17:15 Discussion



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

