

 **OPTO**2024

**WORKSHOP
PROGRAM**

**OPTOELECTRONICS
WORKSHOP @UTT**

July 10-14, 2024
Royes, France



Wednesday, 10th July, 2024 (Room M500)

Time	Activity	
09:15-10:00	Welcome Speech: Perry Ping Shum (IEEE Photonics Society President)	Introduction of IEEE Photonics Society & Photonics Research in Southern University of Science and Technology
10:00-10:45	Opening Speech: Christophe Couteau (Director of L2n CNRS UMR 7076, Université de technologie de Troyes)	Part 1: Introduction and research activities of L2n, joint lab between CNRS and UTT Part 2: Hybrid integrated quantum photonics using diamond
10:45-11:15	Invited: Zhaoli Gao (The Chinese University of Hong Kong, CUHK)	Electronic nano-biosensors based on graphene transistors
11:15-11:30	Coffee-break	
11:30-12:00	Invited: Jiajie Chen (College of Physics and Optoelectronics Engineering, Shenzhen University)	Optothermal tweezers: manipulation and sensing of biological particles
12:00-12:30	Invited: Benoît Rogez (L2n, Université de technologie de Troyes)	Quantitative Phase Microscopy as a tool to measure temperature at the microscale
12:30-14:00	Lunch-buffet	
14:00-14:30	Invited: Chunxiang Xu (School of Electronic Science and Engineering, Southeast University, Nanjing City)	Ultrafast spectra for low-dimensional interface detection
14:30-15:00	Invited: Aurélien Bruyant (L2n, Université de technologie de Troyes)	Compact Surface Plasmon Resonance device integrating ellipsometric detection
15:00-15:30	Invited: Yuye Wang (CUHK & Shenzhen University)	Digital microfluidics-enhanced plasmonic sensing system for precise sample manipulation and bio-detection
15:30-15:45	Coffee-break	
15:45-16:15	Invited: Cyrille Vezy (L2n, Université de technologie de Troyes)	Quantum dots micropatterning: towards biofunctionalization and nano- imaging
16:15-16:45	Invited: Xinhai Zhang (Southern University of Science and Technology)	InP quantum dots saturable absorbers
16:45-17:15	Invited: Kevin Kim & Jérémy Mallet (L2n, URCA & UTT France & Drexel U, USA)	The carbon-to-nitrogen ratio as a lever for infrared tuning in T ₃ CN MXene
17:15-19:00	Poster session	



Thursday, 11th July, 2024 (Room M500)

Time	Activity	
09:30-09:45	Opening Speech: Gilles Léron del (Vice-Director of UTT International Relations Department)	Introduction and presentation of UTT International Relations
09:45-10:15	Invited: Yun Luo (LCBPT - Laboratory of Pharmacological and Toxicological Chemistry and Biochemistry, Université Paris Cité & CNRS)	Surface modification of plasmonic nanoparticles by aryl diazonium salts for Raman bioimaging and biosensing
10:15-10:45	Invited: Julien Proust (L2n, Université de technologie de Troyes)	Understanding the link between structure and photoluminescence in carbon dots nanoparticles
10:45-11:15	Invited: Safi Jradi (L2n, Université de technologie de Troyes)	2-photon polymerization for the deterministic integration of single photon sources into plasmonic nano-antennas
11:15-11:30	Coffee-break	
11:30-12:00	Invited: Jing Zhang (China University of Geosciences, Wuhan)	Advanced optical fiber sensing and its geoscience applications
12:00-12:30	Invited: Jérôme Martin (L2n, Université de technologie de Troyes)	Strong coupling between localized plasmonic resonances with interband transitions in Aluminum nano-antennas
12:30-14:00	Lunch-buffet	
14:00-14:30	Invited: Xiaochuan Xu (Harbin Institute of Technology, Shenzhen)	Chirality manipulation in on-chip silicon micro-ring resonator
14:30-15:00	Invited: Davy Gérard (L2n, Université de technologie de Troyes)	Far-field and near-field chirality in plasmonic metamolecules
15:00-15:30	Invited: Fei Xu (Nanjing University)	All-fiber multifunction-integrated devices
15:30-15:45	Coffee-break	
15:45-16:15	Invited: Mihai Lazar (L2n, Université de technologie de Troyes)	SiC technology for integrated power and optoelectronic devices
16:15-16:45	Invited: Liudmila Trotsiuk (L2n, Université de technologie de Troyes)	Polymerization reaction on gold nanoparticles: effect of heating and hot electrons at CW and fs-irradiation
17:00-18:30	Poster session	
19:30-21:30	Local Champagne activities and buffet in the city center: Champagne Cellier Saint Pierre , 1 Pl. Saint-Pierre, 10000 Troyes	



Friday, 12th July, 2024(Room M500)

Time	Activity	
09:00-9:45	Opening Speech: Anne-Laure Baudrion & Renaud Bachelot (Responsables of EUR NanoPhot Graduate School)	Part 1: Introduction and presentation of EUR NanoPhot Graduate School Part 2: Nonlinear optical sensing in arrays of plasmonic nanoparticle
09:45-10:15	Invited: Rodolphe Jaffiol (L2n, Université de technologie de Troyes)	Advanced quantification for single-cell adhesion by variable angle TIRF nanoimaging
10:15-10:45	Invited: Jiyong Wang (Hangzhou Dianzi University)	Nonlinear plasmonic metafiber devices
10:45-11:15	Invited: Quanbo Jiang (L2n, Université de technologie de Troyes)	Multifunctional optical tweezers for nanophotonic & biological Applications
11:15-11:30	Coffee-break	
11:30-12:30	Closing Ceremony and Award Presentations	
12:30-14:00	Lunch-buffet	
14:00-16:00	Lab Tour	



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