C'NANO PROVENCE-ALPES-CÔTE D'AZUR

amU Institut AMUtech Aix Marseille Université

14th Meeting on Nanoscience Advances

	Monday, Sept. 16th		Tuesday, Sept. 17th		Wednesday, Sept. 18th		Thursday, Sept. 19th
		09:00 09:40	**Keynote** **Patricia HORCAJADA** Metal Organic Frameworks: Water-Related Applications	09:00 09:40	**Keynote** **Boubacar KANTE** Scalable classical and quantum semiconductor light sources	09:00 09:30	**Hai Son NGUYEN** Engineering lossy photonic resonances in non-Hermitian photonics to enhance light-matter interaction
						09:30 09:50	**Tania HIDALGO** Anti-COVID multi-therapy by Immune/Chemo-active nanoMOFs
		09:40 10:00	**Zakaria MARMRI** Protein nano-dot arrays for cell biology	09:40 10:00	**Hugo BIDOTTI** New molecular diodes for rectenna applications	09:50 10:10	**Anne VALLEE** Polyoxometalate-Stabilized Gold Nanostars for combined chemo/photothermal cancer therapy
09:15	**Ferry crossing ➜ Porquerolles**	10:00 10:20	**Pauline BENNET** Global optimization for inverse design in nanophotonics	10:00 10:20	**Xinyu FANG** Detecting gold and polystyrene nanoparticles under UV microscope	10:10 10:40	**COFFEE BREAK**
09:45	**Arrival at IGESA Center** **Luggage drop off in the locker room**	10:20 10:50	**COFFEE BREAK**	10:20 10:50	**COFFEE BREAK**	10:40 11:10	**Yannick GUARI** Nanoscale chemistry: synthesis of Prussian blue nanoparticles and their analogues for innovative applications
11:00 11:10	**Meeting opening**	10:50 11:20	**Gilles BOURRET** Controlling optical properties at the nanoscale: an (electro-)chemical approach	10:50 11:20	**Marc BESCOND** Simulations and conception of innovative cooling nanodevices based on III-V heterostructures	11:10 11:30	**Benoit CLUZEL** Programming Silicon waveguides complex transmittance with Phase Change Materials
11:10 11:40	**Emmanuel LHUILLIER** Operando investigation of nanocrystal electronic structure to assist infrared device design	11:20 11:40	**Olivier SOPPERA** Tailored functional nanoparticles by polymerization induced by surface plasmons	11:20 11:40	**Salomé LARMIER** How to tackle the most sophisticated material science questions with advanced TEM...	11:30 11:50	**Denis LANGEVIN** Theory and simulation of spatially dispersive highly-doped semiconductors
11:40 12:00	**Brian STOUT** Sum-rules methods for Spectral Response Functions	11:40 12:00	**Remi COLOM** Phase Singularities In Resonant Metasurfaces	11:40 12:00	**Lionel PATRONE** Self-assembled monolayer of push-pull chromophores towards the polarization modulation for controlled detection of biomolecules	11:50 12:00	**Award session** **Meeting ending**
12:05	**LUNCH**	12:05	**LUNCH**	12:05	**LUNCH**	13:45	**Ferry crossing ➜ The Tour Fondue**
13:30		13:30		13:30			
13:30 16:00	*Time for discussions*	13:30 16:00	*Time for discussions*	13:30 16:00	*Time for discussions*		
16:00 16:30	**Aude LEREU** Improved TIRF imaging through resonant dielectric multilayer optimization	16:00 16:30	**Samira KHADIR** Achromatic metasurfaces: fundamental limits and some solutions	16:00 16:30	**Fabienne GAUFFRE** Surfactant free emulsions as template for elaboration of nanocapsules: formulation & appl.		
16:30 16:50	**Mathieu MIVELLE** Skyrmion Generation in a Plasmonic Nanoantenna through the Inverse Faraday Effect	16:30 16:50	**Pierre MULLER** How forces exerted by external fields on adatoms lead to the collective motion of 2D nanostructures	16:30 16:50	**Souhir BOUJDAY** Hollow Gold Nanoshells for Sensitive 2D Plasmonic Sensors		
16:50 17:20	**Andrea BALDI** Plasmonic photochemistry: targeted heating with metal nanoparticles	16:50 17:20	**Lucien SAVIOT** Probing the shape and crystallinity of nano-objects with vibrational spectroscopies	16:50 17:20	**David MUNOZ-ROJAS** SALD is in the air: impact on open-air Spatial ALD on thin film processing and materials properties		
17:20 17:50	**COFFEE BREAK**	17:20 17:50	**COFFEE BREAK**	17:20 17:50	**COFFEE BREAK**		
17:50 18:20	**Stéphane COLLIN** What is the best strategy for light-trapping in ultrathin solar cells?	17:50 18:10	**Mariana TELLES DO CASAL** Molecular dynamics and electronic structure simulations of photoexcited chromophores in the context of molecular heaters.	17:50 18:20	**Pierre RONCERAY** From trajectories to models: data-driven approaches to decipher the dynamics of living systems		
18:20 18:50	**Cédric PARDANAUD** Multilayer graphenes: lot of details obtained with standard Raman microscopy	18:10 18:30	**Diego OVALLE** Nonlinear Transport in Topological Materials and Heterostructures	18:20 18:40	**Sébastien BIDAULT** Hybrid Gold-DNA Origami Nanostructures for the Enhancement and Sensing of Single Molecules		
18:50 19:10	**Flash PRESENTATIONS** N. Abu Dahech, S. Bourrelly, M. Mivelle, S. E. Murugesan , L. Pasquini, F. Vacandio, S. Yilmaze	18:30 18:50	**Anna CAPITAINE** Strategies for quasi-2D perovskite integration in p-i-n solar cell	18:40 19:00	**Isam BEN SOLTANE** Characterization of optical systems with the singularity expansion method		
19:30 20:30	**DINNER**	19:30 20:30	**DINNER**	19:30 20:30	**DINNER**		
21:00 22:30	**Salle cheminée: Poster session**			21:00	**Social event**		

Regular Speakers

Award Speakers

Keynote Speakers

Flash poster speaker

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