



Metallic Nano-Objects 2026

March 16-18, 2026

Bordeaux



PROGRAM

Monday - Session 1

Metal clusters and nanoparticles

13h45-14h30 Ilko Bald	Plasmon-induced bond breaking and bond making: Insights from interface spectroscopy
14h30-14h50 Zhou Jingjian	In situ transformation of electrum nanoclusters embedded in polymer matrices exhibit NIR emission with QY exceeding 70%
14h50-15h10 Xavier Le Guevel	Designing atomically precise gold nanocluster architectures with DNA-guided self-assembly
15h10-15h30 Simon Tricard	Hybrid materials made of ultra-small Pt nanoparticles and redox molecules for neuromorphic electronics
15h30-15h45 Francisco Bevilacqua	Halide directed overgrowth of pentatwinned gold nanorods

15h45-16h15 Coffee break

Monday - Session 2

Fundamental responses of plasmonic matter

16h15-17h Jean-Jacques Greffet	Photoluminescence by metallic nanoparticles
17h-17h20 Anne-Laure Baudrion	Broadening the plasmonic spectral range of metallic metasurfaces using dual-material arrays
17h20-17h40 Jean-Pierre Delville	Elucidating anisotropic seed-mediated metallic nanorod growth in solution
17h40-18h Ashod Aradian	Dense plasmonic clusters with artificial magnetism and spatial dispersion

18h-19h30 *Cocktail appetizer / Poster session*

Tuesday - Session 3

Nonlinear optics, quantum descriptions and emission control

8h30-9h15 Janina Kneipp	Surface-enhanced Raman scattering (SERS) for probing of bio-organic molecules
9h15-9h35 Pierre-François Brevet	Second-Harmonic Scattering from metallic Nanoparticles
9h35-9h55 Hans-Christian Weissker	Optical response of coinage-metal clusters and nanoparticles from TDDFT+U calculations
9h55-10h15 Nordin Félij	Plasmon-induced regioselective grafting of gold nanospheres at hot spots to enhance light emission efficiency

10h15-10h45 Coffee break

Tuesday - Session 4

Designing NPs with chiral and catalytic properties

10h45-11h30 Jihyeon Yeom	TBA
11h30-11h50 Jean Daniel Marty	Tuning hybrid nanoparticles with soft matter principles
11h50-12h05 Kaltoum Bakkouche	Surface engineering of metal-containing nanoparticles for catalytic applications
12h05-12h20 Sara Zouggagh	Photoreduction of gold onto silver nanowire chiral structures
12h20-12h35 Pamela De La Fuente	Chiral plasmonic nanostructures as enantioselective photocatalysts

12h35-14h30 Lunch break

Tuesday - Session 5

Advanced Spectroscopies

14h30-15h15 Renato Zenobi	Recent Progress in Tip-Enhanced Raman Spectroscopy
15h15-15h30 Rizki Hanifah	SHINERS for probing buried interfacial composition in operating battery system
15h30-15h50 Bertrand Humbert	Self-organized plasmonic nanoparticle chains embedded in dielectric films for SERS Applications
15h50-16h10 Katarzyna Matcyszyn	Multiphoton absorption of Fe3O4 nanoparticles for wavelengths in the phototherapeutic window
16h10-16h25 Ramanpreet Kaur	Gas-phase synthesis of Ag nanoparticles integrated into nanocapacitors for nano-scale mapping of electrostatic potential by Operando Electron Holography

16h25-17h15 Coffee break | Poster session / Volvox exhibition

17h20-18h15 Bruno Palpant **General public conference « Les couleurs d'origine physique dans l'art visuel »**

20h-22h30 **Gala dinner (Restaurant "Café du Port", Bordeaux)**

Wednesday - Session 6

Chemical Design and Functional Hybrid Nanomaterials

8h30-9h15 Isabel Pastoriza-Santos	Chiral plasmonic nanostructures with advanced optical properties
9h15-9h35 Christophe Petit	A facile route from monometallic particles to high entropy nanoalloys
9h35-9h50 Azziz Aicha	Gold nanoparticle-based G quadruplex system for antisense oligonucleotide delivery
9h50-10h10 Pierre Fau	Group 11 metal nanoparticles synthesis, characterization and applications

10h10-10h45 Coffee break

Wednesday - Session 7

Metallic Nano-Objects for imaging, sensing and manipulation

10h45-11h30 Valentina Krachmalnicoff	Super-resolved imaging of the local density of states on resonant nano-objects at the single molecule level
11h30-11h50 Gordon Reuven	Toward single base resolution of ssDNA using nanoaperture optical tweezers in metal films
11h50-12h10 Antoine Aubret	Light-activated plasmonic nanomotors: towards 3D active fluids
12h10-12h30 Laurent Cognet	Gold nanoclusters as building blocks for SWIR single-particle probes
12h30-12h45 Benedict Morris	Near-field coupling in plasmonic nanoarrays: tailoring radiative and non-radiative losses through gap engineering

12h45-14h30 Lunch break

Wednesday - Session 8

Active, responsive and functional metallic nano-objects

14h30-15h15 Emilie Ringe	Stable and Abundant Magnesium Nanoparticles for Light-Driven Processes
15h15-15h35 Manoj Kumar Gupta	Two-dimensional Flexible nanogenerators a sustainable energy-harvesting technologies
15h35-15h55 Wouter Koopman	Photocharging in plasmon-driven catalysis
15h55-16h10 Giang Tran	Plasmonic-semiconductor Cu/TiO2 with enhanced photocatalytic performance
16h10-16h30 Anthony Maho	Plasmonic Doped MetalOxide Nanostructures as innovative infrared-selective electrochromic materials

16h30-16h45 *Poster prizes and Closing ceremony*