



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 Félidj	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 Zougagh	Photoreduction of gold onto silver nanowire chiral structures
12h20-12h35	Pamela De La Fuente	Chiral plasmonic nanostructures as enantioselective photocatalysts

12h35-14h15 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 Matczyn	Multiphoton absorption of Fe ₃ O ₄ 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 General public conference « Les couleurs d'origine physique dans l'art visuel »

20h-22h30 Gala diner (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 Pause café

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/TiO ₂ 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