



Metallic Nano-Objects 2026

March 16-18, 2026

Bordeaux



MNO2026

PROGRAM

Monday March, 16th

12h30-13h30 **Welcome coffee and registration**

13h30- 13h15 Introduction

Session 1 Metal clusters and nanoparticles

13h45-14h30 IS01 Ilko Bald Plasmon-induced bond breaking and bond making: Insights from interface spectroscopy
14h30-14h50 O01 Zhou Jingjian In situ transformation of electrum nanoclusters embedded in polymer matrices exhibit(ing) NIR emission with QY exceeding 70%
14h50-15h10 O02 Xavier Le Guevel Designing atomically precise gold nanocluster architectures with DNA-guided self-assembly
15h10-15h30 O03 Simon Tricard Hybrid materials made of ultra-small Pt nanoparticles and redox molecules for neuromorphic electronics
15h30-15h45 O04 Francisco Bevilacqua Halide-directed overgrowth of pentatwinned gold nanorods

15h45-16h15 *Coffee break*

Session 2 Fundamental responses of plasmonic matter

16h15-17h IS02 Jean-Jacques Greffet Photoluminescence by metallic nanoparticles
17h-17h20 O05 Anne-Laure Baudrion Broadening the plasmonic spectral range of metallic metasurfaces using dual-material arrays
17h20-17h40 O06 Jean-Pierre Delville Elucidating anisotropic seed-mediated metallic nanorod growth in solution
17h40-18h O07 Ashod Aradian Dense plasmonic clusters with artificial magnetism and spatial dispersion

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

Tuesday, March 17th

Session 3 Nonlinear optics, quantum descriptions and emission control

8h30-9h15 IS03 Janina Kneipp Surface-enhanced Raman scattering (SERS) for probing of bio-organic molecules
9h15-9h35 O08 Pierre-François Brevet Second-Harmonic Scattering from metallic nanoparticles
9h35-9h55 O09 Hans-Christian Weissker Optical response of coinage-metal clusters and nanoparticles from TDDFT+U calculations
9h55-10h15 O10 Nordin Félijdj Plasmon-induced regioselective grafting of gold nanospheres at hot spots to enhance light emission efficiency

10h15-10h45 *Coffee break*

Session 4 Designing NPs with chiral and catalytic properties

10h45-11h30 IS04 Jihyeon Yeom Atomic Chirality in Metallic Nano-Objects: From Symmetry Breaking to Chiroptical Devices and Bio-Interfaces
11h30-11h50 O11 Jean Daniel Marty Tuning hybrid nanoparticles with soft matter principles
11h50-12h05 O12 Kaltoum Bakkouche Surface engineering of metal-containing nanoparticles for catalytic applications
12h05-12h20 O13 Sara Zougagh Photoreduction of gold onto silver nanowire chiral structures
12h20-12h35 O14 Pamela De La Fuente Chiral plasmonic nanostructures as enantioselective photocatalysts

12h35-14h30 *Lunch break*

Session 5 Advanced Spectroscopies

14h30-15h15 IS05 Renato Zenobi Recent Progress in Tip-Enhanced Raman Spectroscopy
15h15-15h30 O15 Rizki Hanifah SHINERS for probing buried interfacial composition in operating battery system
15h30-15h50 O16 Maxime Bayle Self-organized plasmonic nanoparticle chains embedded in dielectric films for SERS Applications
15h50-16h10 O17 Katarzyna Matczynska Multiphoton absorption of Fe₃O₄ nanoparticles for wavelengths in the phototherapeutic window
16h10-16h25 O18 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 diner** (Restaurant "Café du Port", Bordeaux)

Wednesday, March 18th

Session 6 Chemical Design and Functional Hybrid Nanomaterials

8h30-9h15 IS06 Isabel Pastoriza-Santos Chiral plasmonic nanostructures with advanced optical properties
9h15-9h35 O19 Christophe Petit A facile route from monometallic particles to high entropy nanoalloys
9h35-9h50 O20 Azziz Aicha Gold nanoparticle-based G quadruplex system for antisense oligonucleotide delivery
9h50-10h10 O21 Pierre Fau Group 11 metal nanoparticle synthesis, characterization and applications

10h10-10h45 *Coffee break*

Session 7 Metallic Nano-Objects for imaging, sensing and manipulation

10h45-11h30 IS07 Valentina Krachmalnicoff Super-resolved imaging of the local density of states on resonant nano-objects at the single-molecule level
11h30-11h50 O22 Gordon Reuven Toward single base resolution of ssDNA using nanoaperture optical tweezers in metal films
11h50-12h10 O23 Antoine Aubret Light-activated plasmonic nanomotors: towards 3D active fluids
12h10-12h30 O24 Laurent Cognet Gold nanoclusters as building blocks for SWIR single-particle probes
12h30-12h45 O25 Benedict Morris Near-field coupling in plasmonic nanoarrays: tailoring radiative and non-radiative losses through gap engineering

12h45-14h30 *Lunch break*

Session 8 Active, responsive and functional metallic nano-objects

14h30-15h15 IS08 Emilie Ringe Stable and Abundant Magnesium Nanoparticles for Light-Driven Processes
15h15-15h35 O26 Manoj Kumar Gupta Two-dimensional Flexible Nanogenerators as sustainable energy-harvesting technologies
15h35-15h55 O27 Wouter Koopman Photocharging in plasmon-driven catalysis
15h55-16h10 O28 Giang Tran Plasmonic-semiconductor Cu/TiO₂ with enhanced photocatalytic performance
16h10-16h30 O29 Anthony Maho Plasmonic Doped MetalOxide Nanostructures as innovative infrared-selective electrochromic materials

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