

List of Oral Presentations

Tuesday, November 23rd

08:00 Registration

09:00 **OPENING SESSION**

Corinne CHANEAC, Director of C'Nano

Constantin VAHLAS, Chief scientific officer of CNRS Institute of chemistry

09:30 **PLENARY SESSION**

Julie GROLLIER (CNRS- UMPy Laboratory, France) - *Spintronic neural networks*

10:30 Coffee break

10:50

THEMATIC SESSIONS

NANOPHOTONICS & NANO-OPTICS

10:50	Deep learning meets nano-optics	Peter WIECHA • CNRS - LAAS, France
11:20	Coherent Perfect Absorption in coupled Nano-Opto-ElectroMechanical Systems	Gladys JARA-SCHULZ • Paris-Saclay Univ. - C2N, France
11:35	Design of photonic nanostructures via chirality induction	Emilie POUGET • CNRS - CBMN, France
11:50	Near-Field Photochemical Imaging of Chiral Nanostructures	Thinhinane AOUDJIT • UTT - P2MN, France
12:05	Sharp spectral variations of the ultrafast transient near-ultraviolet light extinction by bimetallic gold-silver nanoparticles	Bruno PALPANT • CentraleSupélec - LUMIN, France
12:20	Polarization dependent inelastic light scattering by acoustic vibrational modes of Au nanoparticles	Mariana TIMM • INSA Lyon - ILM, France
12:35	Single gold bipyramid orientation measured by scattering polarization spectroscopy	Julien LAVERDANT • UCB Lyon 1 - ILM, France

13:00 Lunch, Poster session & Exhibition

NANO: HEALTH, ENVIRONMENT & RISKS

10:50	Advances in environmental risk assessment of engineered nanomaterials	Bernd NOWACK • EMPA - St. Gallen, Switzerland
11:20	Modeling nanoplastic fate in the Arctic: Mechanisms of transfer from saltwater to ice	Julien GIGAULT • CNRS - TAKUVIK, France
11:35	Origin, properties, environmental/health concern of plasma-formed polymer nanocomposites traced in natural resources and living organisms	Marie-Agnès COURTY • CNRS - PROMES, France
11:50	Investigating protein-nanoparticle interactions in 3D cell culture models for the long-term toxicity study of inhaled silver nanoparticles	Daniel SANCHEZ-GUZMAN • Univ. Paris - BFA, France
12:05	Beyond the paradigm of nanomechanical measurements on cells using AFM: an automated methodology to rapidly analyse thousands of cells	Etienne DAGUE • CNRS - LAAS, France
12:20	Nano-gold decorated TiO ₂ , ZnO and WO ₃ for NO degradation: new photocatalytic materials for the improvement of the Indoor Air quality	Kevin CASTELLO-LUX • INSA Toulouse - LMDC & LCC, France

13:00 Lunch, Poster session & Exhibition

Saint-Exupéry
Amphitheater

Spot
room

Cassiopee
room

Saint-Exupéry
foyer

10:50

THEMATIC SESSIONS

1D & 2D NANOMATERIALS

10:50	Revealing the topological nature of transport at mesoscopic scales with quantum interferences	Hélène BOUCHIAT • CNRS - LPS, France
11:20	High magnetic field spin-valley-split Shubnikov-de Haas oscillations in a WSe ₂ monolayer	Walter ESCOFFIER • INSA Toulouse - LNCMI, France
11:35	What is the electron behavior in two-dimensional CdSe nanoplatelets?	Nemanja PERIC • CNRS - IEMN, France
11:50	First-principle approach to multi-wavelength Raman spectroscopy of 2D-nanomaterials	Anthony IMPELLIZZERI • Univ. of Nantes - IMN, France
12:05	Identifying Protein Sequence Motifs from Peptide Translocation in Silico Experiments through Solid-state Nanopores	Andreina URQUIOLA HERNANDEZ • UBFC - ICB, France
12:20	Collective Magnetism in 2D Polymer Made of C-doped Triangular Boron Nitride Nanoflakes	Alain ROCHEFORT • Polytechnique Montreal - Engineering Physics Dpt, Canada
12:35	Intense Raman D band without disorder in flattened carbon nanotubes	Emmanuel PICHEAU • CNRS - CRPP, France

13:00 Lunch, Poster session & Exhibition

NANO GOLD BY YOUNG RESEARCHERS

10:50	Scientific outreach: why and how ?	Nathalie LIDGI-GUIGUI • Sorbonne Paris Nord Univ. - LSPM, France
11:20	Emergence of Mesoionic Carbenes for the Stabilization of Gold Nanoparticles	Alexandre PORCHERON • Sorbonne Univ. - LCMCP, France
11:35	Photopolymerization at nanoscale on gold nanoparticles followed by plasmon resonance shift	Amine KHITOUS • Univ. of Haute-Alsace - IS2M, France
11:50	Colloidal assembly of anisotropic gold nanostructures and optical-plasmonic properties	Antonio CARONE • ENS Lyon - LCH Lyon, France
12:05	Gold nanoclusters synthesis and functionalization aiming at properties enhancement	Victoire ASILA • Sorbonne Univ. - LCMCP, France

13:00 Lunch, Poster session & Exhibition

List of Oral Presentations

Tuesday, November 23rd

15:00

THEMATIC SESSIONS

NANO FOR IMAGING, DIAGNOSIS & THERAPY

15:00	Influence of PEG Spacers on the Cytotoxicity of Titanate Nanotubes-Docetaxel Nanohybrids on a Prostate Cancer Cell Line	Julien BOUDON • <i>Bourgogne Univ. - ICB, France</i>
15:15	Remote magneto-mechanical destruction of cancer-associated fibroblasts using targeted ultra-small superparamagnetic iron oxide nanoparticles and low frequency magnetic fields	Véronique GIGOUX • <i>INSERM - LPCNO, France</i>
15:30	Mastering size for the design of innovative theranostic iron oxide based nanoparticles ensuring multimodal therapy	Barbara FREIS • <i>CNRS - IPCMS, France</i>
15:45	Ag ₂ S nanoparticle-based thermal sensing for hyperthermia therapy	Lise ABIVEN • <i>CNRS - LCMCP, France</i>
16:00	Hybrid nano-objects of Metal Organic Frameworks and maghemite for theranostic applications	Heng ZHAO • <i>ENS Paris - IMAP, France</i>
16:15	Thermo-stimulated drug release under alternating magnetic field	Megi BEJKO • <i>Bordeaux Univ. - LCPO, France</i>
16:30	Optimized Synthesis and Characterization of Magnetic Nanorods	Sirine EL MOUSLI SAADA • <i>Sorbonne Univ. - PHENIX, France</i>

17:10 Coffee break

MULTIFUNCTIONAL NANOCOMPOSITES

15:00	Understanding the kinetics of formation of nanostructures through energy surfaces	Normand MOUSSEAU • <i>Univ. Montréal - Dpt of Physics, Canada</i>
15:30	Spin crossover in Fe(triazole)-Pt nanoparticle self-assembly structured at the sub-5 nm scale	Simon TRICARD • <i>CNRS - LPCNO, France</i>
15:45	Plasma based solutions to produce nanocomposite thin film coatings	Françoise MASSINES • <i>CNRS - PROMES, France</i>
16:15	Hybrid PECVD / direct liquid injection of a Colloidal Solution for SiO ₂ :TiO ₂ nanocomposite thin film deposition	Mireille RICHARD • <i>CNRS - IMN, France</i>
16:30	How to avoid nanoparticle aggregation in single step formation of nanocomposites	Anne-Françoise MINGOTAUD • <i>CNRS - IMRCP, France</i>

17:10 Coffee break

15:00

THEMATIC SESSIONS

NANO GOLD BY YOUNG RESEARCHERS

15:00	New basic organometallic reactivity of gold: towards new applications ?	Didier BOURISSOU • CNRS - LHFA, France
15:30	Excitation of multipolar surface plasmon modes offers new horizons in nano-localized surface chemistry	Théo GERONIMI-JOURDAIN • Paris Univ. - ITODYS, France
15:45	Optical monitoring of the switching of diarylethene molecules grafted on gold nanoparticles	Angeline DILESEIGRES • CNRS - INSP, France
16:00	Reaching a strong coupling regime between fluorescent emitters and a gold plasmonic resonator with DNA	Jeanne HEINTZ • CNRS - Langevin Institute, France
16:15	Quench Assembly of Gold Nanoparticles With Quaternized Chitosan	Florent VOISIN • Paris Univ. - MSC, France
16:30	Ultra-small nanospheres and ultrathin nanowires: growth mechanism study	Ezgi YILDIRIM • INSA Toulouse - LPCNO, France

17:10 Coffee break

1D & 2D NANOMATERIALS

15:00	Efficient light emission from hexagonal SiGe	Erik BAKKERS • Eindhoven Univ. of Technology- Dpt of Applied Physics, The Netherlands
15:30	Transport properties of a highly transparent Al-Ge/Si-Al core/shell nanowire heterostructures	Jovian DELAFORCE • CNRS - Neel Institute, France
15:45	Opto-magnetic study of Gold@Spin Crossover Nanocomposites	Nathalie DARO • CNRS - ICMCB, France
16:00	Growth mechanisms and highlights of 15R structure in ZnS nanowires: from VLS to VSS	Sumit KUMAR • UVSQ - GEMaC, France
16:15	Quantification of the intra-wall electric field in aluminosilicate nanotubes	Marie-Claire PIGNIE • CEA - NIMBE, France

17:10 Coffee break

17:30 PLENARY SESSION

Francesca MORESCO (TU Dresden- CFAED, Germany) - *Functional molecules synthesized on surface: gears, nanocars and wires*

18:00 PRESENTATION BY THE 8 TEAMS OFFICIALLY REGISTERED TO NANOCAR RACE II

Chairperson: Christian JOACHIM (CNRS - CEMES, France)



19:00 PLENARY SESSION

Jean-Marc CHOMAZ (CNRS- LadHyX, France) - *The role of the sensitive world in scientific construction*

19:30 WELCOME COCKTAIL, POSTER SESSION & EXHIBITION

List of Oral Presentations

Wednesday, November 24th

08:30 **PLENARY SESSION**
Jacqueline BLOCH (CNRS- C2N, France) - *Emulating condensed matter with Quantum fluids of light*

09:30 **PLENARY SESSION**
Fernand DORIDOT (ICAM Lille- CETS, France) - *The NanoFabNet Hub for sustainable Nanofabrication*

10:00 **SPONSORS PRESENTATIONS** HIMT ; Bruker

10:30 Coffee break

10:50 **THEMATIC SESSIONS**

NANOPHOTONICS & NANO-OPTICS

10:50 **Applications of metasurfaces** **Patrice GENEVET** • CNRS - CRHEA, France

11:20 Challenges in Nanofabrication for Efficient Optical Metasurfaces **Adelin PATOUX** • AIRBUS - LAAS, France

11:35 Hyper doped silicon based tunable mid-IR plasmonic metasurfaces **Jean-Marie POUMIROL** • CNRS - CEMES, France

11:50 2-octaves on-chip mid-infrared supercontinuum generation **Miguel BALLESTER MONTESINOS** • Univ. Paris-Saclay - C2N, France

12:05 UpConverting NanoParticles: from small to Ultrasmall "Nanolamps" **Christophe COUDRET** • CNRS - IMRCP, France

12:20 Three-Dimensional Orientation Analysis of Nanocrystals via Polarized Luminescence of Rare-Earth Dopants **Thierry GACOIN** • CNRS - LPMC, France

12:35 Slow acoustical waves in the GHz for integration of nano-optomechanical oscillators **Rémy BRAIVE** • Univ. Paris - C2N, France

13:00 **Lunch, Poster session & Exhibition**

1D & 2D NANOMATERIALS

10:50 **Intrinsic and Extrinsic Light Matter Interaction Processes in Hexagonal Boron Nitride** **Bernard GIL** • CNRS - L2C, France

11:20 Morphology and band offset in InGaAs/InP nanowires grown by selective area molecular beam epitaxy **Bruno GRANDIDIER** • CNRS - IEMN, France

11:35 Investigating the parameters influencing the light emission of TMD monolayers transferred on dielectric nanoantennas **Vincent PAILLARD** • CNRS - CEMES, France

11:50 Sequential processing of 2D covalent networks on metal substrates **Frédéric DUMUR** • AMU - ICR, France

12:05 Single crystalline Te and Ag₂Te nanostructures for thermoelectric conversion **Karen AL HOKAYEM** • Univ. of Lorraine - IJL, France

13:00 **Lunch, Poster session & Exhibition**

10:50

THEMATIC SESSIONS

NANOCHEMISTRY & NANOPARTICLES

10:50	Tailoring Anisotropies in Nanocrystals	Jong-Wook KIM • Ecole Polytechnique – LPMC, France
11:20	Impact of precursor, solvent and ligand on the size and composition of iron oxide nanoparticles	Sylvie BEGIN • Strasbourg Univ. - IPCMS, France
11:35	«Non-classical» nucleation of oxide nanoparticles in solution: implications on structure control	David CARRIERE • CEA - NIMBE & LIONS, France
11:50	Controllable synthesis of ultra-small RE_2O_2S and $RE_2O_2S@NaREF_4$ heterogeneous core-shell nanoparticles	Qilin ZOU • Paul Sabatier Univ. - CEMES, France
12:05	Silver oxide nanoparticles electrosynthesis and characterization at the individual scale	Mathias MIRANDA VIEIRA • Paris Univ. - ITODYS, France
12:20	Shape-controlled synthesis of ultra-thin indium sulfide nanoribbons	Lilian GUILLEMENEY • ENS Lyon - LCH Lyon, France
12:35	Controlling the Synthesis of InP Nanocrystals using the Secondary Coordination Sphere	Fabien DELPECH • INSA Toulouse - LPCNO, France
12:50	One-step microwave synthesis of functionalized magnetic nanoparticles	Thomas GIRARDET • Univ. of Lorraine - IJL, France

13:00 Lunch, Poster session & Exhibition

NANOMATERIALS FOR ENERGY

10:50	Spatial atomic layer deposition: a high-throughput, open-air technique allowing the deposition of patterned functional materials	David MUNOZ-ROJAS • CNRS - LMGP, France
11:20	Nanopowders Based Transition Metal Oxides for Enhanced Electrochromic Properties	Brandon FACEIRA • CNRS - ICMCB, France
11:35	Molybdenum-Containing Oxysulfide Nanoplates: Characterization of their Structure and Active Sites for Electrocatalysis	Sophie CARENCO • CNRS - LCMCP, France
11:50	Out of stoichiometry $CuCrO_2$ thin films as Sustainable Hole Transparent Layer in recyclable organic solar cells	Jean-Luc DESCHANVRES • CNRS - LMGP, France
12:05	Experimental Evidence of the Role of Structural Short-Range Order on the Electrochemical Activity of Iridium Oxide	Marine ELMAALOUF • Univ. de Paris - ITODYS, France
12:20	3D MnO_2/Ni Network as Electrode Material for High Areal Energy Microsupercapacitors	Botayna BOUNOR • CNRS - LAAS, France
12:35	Ni-Fe oxide electro-catalysts for the Oxygen Evolution Reaction	Caterine AMIENS • CNRS - LCC, France

13:00 Lunch, Poster session & Exhibition

15:00 **PLENARY SESSION**

Suzanne GIASSON (Univ. of Montréal- CRMMA & GRUM, Canada) - *Multi-Responsive Two-Dimensional Microgel Arrays as Coatings for Independent and Specific Control of Surface Properties*

List of Oral Presentations

Wednesday, November 24th

16:00

THEMATIC SESSIONS

NANO-OPTICS & NANOPHOTONICS

16:00 Plasmonics Purcell factor: reconciling classical and cQED approach and downscaling quantum optics to the nanoscale **Gérard COLAS DES FRANCS** • *Univ. Bourgogne - ICB, France*

16:30 Polarization can drive light emission from hybrid plasmonic nanosources **Renaud BACHELOT** • *UTT - LN2, France*

16:45 Controlled positioning of single-photon emitters and coupling to dielectric nanoantennas by AFM-nanoxerography **Mélodie HUMBERT** • *CNRS - LPCNO, France*

17:00 **Coffee break**

17:20 Wavelength selective grating fabricated by thin dye local photo-bleaching using laser writer **Alban GASSENQ** • *UCB - ILM, France*

17:35 Unexpected enhancement of Förster Resonant Energy Transfer thanks to quantum dots aggregation **Thomas NOBLET** • *Univ. of Liège - CESAM, France*

17:50 Colloidal Aluminum Nanoparticles Synthesis for UV Plasmonic **Marion CASTILLA** • *UTT - L2N, France*

MULTIFUNCTIONAL NANOCOMPOSITES

16:00 Versatile and scalable approaches to chemical processing of nanocarbons **Milo SHAFFER** • *Imperial College London – Dpt of Chemistry, UK*

16:30 Magnetic Stimulation of Phase-Changing Nanocomposites **Pablo GRIFFITHS** • *INSA Lyon - MATEIS, France*

16:45 Versatile Design of Multifunctional Microgels from Molecular, Nano- and Microscale Building Blocks for Biomedical Applications **Xiao YU** • *Université de Paris - LCBPT, France*

17:00 **Coffee break**

17:20 Control of graphene localization in co-continuous PMMA/PS polymer blends via chemical modification for electrical applications **Thibaut LALIRE** • *IMT Mines Ales - PCH, France*

17:35 Controllable, resilient and efficient artificial muscles based on spin-crossover/polymer nanocomposites **Mario PIEDRAHITA-BELLO** • *CNRS - LCC, France*

17:50 Easy colorimetric detection of Gadolinium ions based on gold nanoparticles: Key role of phosphine-sulfonate ligands **Diana CIUCULESCU** • *Univ. Toulouse III - Paul Sabatier - IMRCP, France*

18:05 Nanoscale Mechanical and Electrical Characterization of the Interphase in Polyimide/Si3N4 Nanodielectric Materials **Nadine LAHOUD-DIGNAT** • *Univ. Toulouse III - Paul Sabatier - LAPLACE, France*

Saint-Exupéry
Amphitheater

Spot
room

Cassiopee
room

Saint-Exupéry
foyer

16:00

THEMATIC SESSIONS

NANOCHEMISTRY & NANOPARTICLES

16:00	Ligand Chemistry and Aggregation kinetics of Cs:WO ₃ Nanocrystals	Capucine CLERET DE LANGAVANT • EP - LCMCP, France
16:15	MgO nanocatalyst for the valorisation of CO ₂ in the cycloaddition to epoxides	Cyprien POUJIN • CNRS - LCMCP, France
16:30	Preparation of nanoparticles in supercritical conditions; interesting insights in the use of supercritical solvents	Cynthia CIBAKA NDAYA • CNRS - ICMCB, France
16:45	Influence of thiol ligands on the ZnSe magic-sized cluster formation	David K. WEGNER • - BAM - Division Biophotonics, Germany

17:00 Coffee break

17:20	Synthesis of copper nanoparticles with tunable sizes and shapes	Armelle OUALI • CNRS- ICGM, France
17:35	Synthesis of cobalt nanorods and self-assembly assisted by magnetophoresis	Antoine GONON • INSA Toulouse - LPCNO, France
17:50	Eco-friendly Routes to Metallic Bismuth Nanoparticles	Catherine GOMEZ • Cnam - GBCM, France
18:05	Original functional nanoparticles in molten salts	David PORTEHAULT • CNRS - LCMCP, France

NANO FOR IMAGING, DIAGNOSIS & THERAPY

16:00	Polymeric micelles for topical treatment of ocular diseases	Carmen Isabel ALVAREZ LORENZO • USC – Pharma. Tech., Santiago de Compostela – Spain
16:30	Carbon nanotubes based composite for non-invasive transdermal drug delivery	Juliette SIMON • Toulouse III Univ. - Paul Sabatier - CIRIMAT, France
16:45	Effect of the microstructure of n-butyl acrylate/N-isopropylacrylamide copolymers on their thermo-responsiveness, self-organization and gel properties in water	Fang Yin • Toulouse Univ. - IMRCP, France
17:00 Coffee break		
17:20	Synthesis and self-assembly of amphiphilic multi-responsive block copolymers for drug delivery applications	Clémence NADAL • Toulouse III Univ. - Paul Sabatier - CIRIMAT, France
17:35	Bio-inspired apatite-based nanoparticles: a smart platform for nanomedicine	Christophe DROUET • CNRS - CIRIMAT, France
17:50	Encapsulation of bio-inspired Mn complexes in mesoporous silica nanoparticles with improved biocompatibility for the regulation of oxidative stress	Tristan PELLUAU • Montpellier Univ. - ICGM, France

18:30 C'NANO & RENATECH PhD AWARDS 2021

20:30 GALA DINNER

List of Oral Presentations

Thursday, November 25th

9:00 **PLENARY SESSION**

Teresa PELLEGRINO (ITT- Central Research Labs Genova, Italy) - *Combining magnetic hyperthermia with other therapeutic strategies to tackle cancer*

10:00 Coffee break

10:20

THEMATIC SESSIONS

NANO FOR IMAGING, DIAGNOSIS AND THERAPY

10:20	Nanoscale exploration of live brain tissue based on super-resolution microscopy and near-infrared emitting carbon nanotubes	Laurent COGNET • CNRS - LP2N, France
10:50	Influence of polymer micelles in the delivery of a photosensitizer to model membranes and cells	Clément ROUX • Toulouse Paul Sabatier Univ. - IMRCP, France
11:05	Hafnium Oxide nanoparticles synthesis for the detection of atherothrombosis through X-ray imaging	Yasmine SEBTI • Sorbonne Paris Nord Univ. - LVTS, France
11:20	Luminescent Polymer Nanoparticles for Intracellular Imaging	Andreas REISCH • Strasbourg Univ. - LBP, France
11:35	Molecular Nanocrystals for Bioimaging	Alain IBANEZ • CNRS - NEEL Institute, France
11:50	Surface engineering of silica nanoparticles with a Gd-PCTA complex for efficient T1-weighted MRI contrast agents	Catherine AMIENS • Toulouse Paul Sabatier Univ. - LCC, France
12:05	Raman reporters derived from aryl diazonium salts for SERS encoded-nanoparticles	Yun LUO • CNRS - LCBPT, France

12:30 Lunch, Poster session & Exhibition

NANOSCALE HEAT TRANSFER - MEASUREMENT

10:20	Ultrafast energy transfer imaged by time domain thermoreflectance	Stefan DILHAIRE • Bordeaux Univ. - LOMA, France
10:50	Investigating heat transparency of metal transducers in ThermoReflectance	Jean-Michel RAMPNOUX • Bordeaux Univ. - LOMA, France
11:05	Synthesis and thermal properties of GO-TiO ₂ /PEDOT:PSS polymer nanocomposites	Shivani SHISODIA • ULCO - UDSMM, France
11:20	Evaluation of heat transport in «liquid-nanoporous Si» composite by μ -Raman spectroscopy	Oksana MAKUKHA • CNRS - INL, France
11:35	Surface temperature mapping and thermal damping properties of spin-crossover molecules	Karl RIDIER • CNRS - LCC, France
11:50	Hybrid modes in a thermally excited isolated pair of antennas	Loubnan ABOU-HAMDAN • ESPCI Paris - Langevin Institute, France

12:30 Lunch, Poster session & Exhibition

10:20**THEMATIC SESSIONS****NANOCHEMISTRY & NANOPARTICLES**

10:20	Probing ligand coordination in Zinc oxide nanocrystals enabled by Dynamic Nuclear Polarization enhanced solid-state NMR	Gaël DE PAEPE • CEA - IRIG, France
10:50	Fabrication of complex metasurfaces to control visual appearance	Adrian HEREU • CNRS - ICMCB, France
11:05	Plasmonic hybrid nanoparticles in catalysis	Clémence QUEFFELEC • Nantes Univ. - CEISAM, France
11:20	Upgrading biomass by bimetallic catalysts	Miquel CARDONA • Paul Sabatier Univ. - LCC, France
11:35	Flow synthesis of silver nanodisks: mechanisms & rational processing	Kevin ROGER • CNRS - LGC, France
11:50	The role of pre-nucleation clusters in the crystallization of gold nanoparticles	Raj Kumar RAMAMOORTHY • INP Toulouse - LGC, France
12:05	Metal nanostructures formed by electrodeposition in microchannels: study of the growth mechanism and application to SERS	Fabien CHAUVET • Toulouse Paul Sabatier Univ. - LGC, France

12:30 Lunch, Poster session & Exhibition**NANOMATERIAL FOR ENERGY**

10:20	Atomistic modeling of heat propagation in nanomaterials	Evelyne MARTIN • CNRS - ICube, France
10:50	Ultrafast dynamics of hot carriers in bulk semiconductors and in accumulation layer: energy relaxation and screening effects	Jelena SJAKSTE • CNRS - LSI, France
11:05	Low-energy bandgap thermophotovoltaic cells for harnessing near-field thermal photons	Rodolphe VAILLON • CNRS - IES, France
11:20	Influence of silicon nano-inclusions shape and interconnection on thermal conductivity in an amorphous Si matrix	Paul DESMARCHELIER • CNRS - CETHIL, France
11:35	Radiative sky cooling of solar cells: fundamental modelling and cooling potential of single-junction devices	Jérémy DUMOULIN • INSA Lyon - INL, France
11:50	MBE-grown GaAs/GaNIP nanowire arrays on Silicon for tandem solar cells	Capucine TONG • IPVF - IPVF, France

12:30 Lunch, Poster session & Exhibition

List of Oral Presentations

Thursday, November 25th

14:00

THEMATIC SESSIONS

NANO FOR IMAGING, DIAGNOSIS AND THERAPY

14:00	Development of innovative nanocomposite hydrogels for the treatment of Glioblastoma	Amel DJOUDI • Angers Univ. - CRCINA, France
14:15	Biocompatible photoacoustic nanoparticulate contrast agents based on BODIPY-scaffold and polylactide polymers	Jean-Baptiste BODIN • Paris-Saclay Univ. - ISMO, France
14:30	All-organic, intrinsically stealth nanoparticles for single particle tracking and bioimaging	Morgane ROSENDALE • Bordeaux Univ. - ISM, France
14:45	Hybrid Cationic Elastin-like Polypeptides for Nucleic Acids Delivery	Monica BRAVO • CNRS - ISCR, France

15:10 Coffee break

NANOSCALE HEAT TRANSFER - MEASUREMENT

14:00	Scanning thermal microscopy: probing temperature & heat dissipation down to the few-nanometer scale	Pierre-Olivier CHAPUIS • CNRS - CETHIL, France
14:30	Traceability of thermal conductivity measurements at nanoscale by SThM technique and associated uncertainties	Sarah DOURI • LNE - CETHIL, France
14:45	Near-field thermal radiation: material and temperature effects	Pierre-Olivier CHAPUIS • CNRS - CETHIL, France

15:10 Coffee break

14:00

THEMATIC SESSIONS

NANOCHEMISTRY & NANOPARTICLES

14:00	40 years of PDF in Toulouse	Pierre LECANTE • CNRS - CEMES, France
14:15	Synthesis of SiO ₂ Nanoparticles as reference material : nanometrology and in situ kinetics in lab by Small angle -X-ray scattering measurements	Olivier TACHE • CEA - NIMBE, France
14:30	Self-assembled monolayers of CdTe quantum dots: chemisorption versus physisorption	Thomas NOBLET • Liège Univ. - GRASP-Biophotonics, Belgium
14:45	Bottom-up design and realisation of stable fullerene spin systems	Chris EWELS • CNRS - IMN, France

15:10 Coffee break

NANOMATERIAL FOR ENERGY

14:00	On the UV-visible light synergetic mechanisms in hybrid Au/TiO ₂ nanostructures achieving photo-reduction of water	Maria Isabel MENDOZA DIAZ • CNRS - LAAS, France
14:15	Nb/Ta, N co-doped TiO ₂ nanoparticles for broad spectrum solar light activation photocatalysis	Qingyang XI • CNRS - ICPEES, France
14:30	Fabrication of nanostructured permanent magnet by magnetophoresis for MEMS applications	Pierre MORITZ • CNRS - LAAS, France
14:45	Growth, structure and dynamics of ferroelastic domains in GeTe thin films on Si(111)	Boris CROES • AMU - CINaM, France

15:10 Coffee break

15:30 BEST TALKS & POSTERS & SCIENCES IMAGES AWARDS CEREMONY

16:00 CLOSING SESSION