



# Transpyrenean Encounter on Advanced Materials

<http://team1.co-ac.com>

## Scientific committee

### **ALONSO, Julio A.**

University of Valladolid,  
Valladolid, Spain

[Nanoscience; hydrogen storage; porous materials; catalysis]

### **BARON Thierry**

LTM – UMR 5129 CNRS-UGA  
GRENOBLE, France

[nanomaterials, nanotechnology, nanoelectronics, heteoepitaxy]

### **BERNARD Samuel**

CNRS/IEM  
MONTPELLIER, France

[non-oxide ceramics; nitrides, carbonitrides, carbides ; preceramic polymers]

### **BOURGES Philippe**

Laboratoire Léon Brillouin – LLB – CEN-CEA  
SACLAY, France

[Inelastic neutron scattering ; magnetism & superconductivity ; aperiodic systems ; perovskites hydrides for photovoltaic applications]

### **BUCHAILLOT Lionel**

IEMNIEMN  
Cite scientifique, Avenue H. Poincaré  
CS60069  
59652 VILLENEUVE D'ASCQ CEDEX, France

[MEMS; NEMS; Nano indentation; Resonators]

### **BUSTARRET Etienne**

CNRS, Institut Néel  
GRENOBLE, France

[superconducting materials ; multiferroic oxides ; wide bandgap semiconductors – diamond, SiC, III-V ; intermetallic alloys ; magnetic materials ; light emitting or photocatalytic nanoparticles ; 2D materials ; optically non linear materials]

### **CASANOVE Marie-José**

CEMES-CNRS  
TOULOUSE, France

[metallic nanoparticules and thin films ; magnetism, magneto-optics, health ; surfaces, Interfaces]

**CATALAN, Gustau**

ICREA-Institució Catalana de Recerca i Estudis Avançats

ICN2-Institut Català de Nanociència i Nanotecnologia

Campus UAB, Bellaterra 08193, Barcelona, Spain

[Ferroelectricity, multiferroics, domain walls, flexoelectricity, functional oxides]

**CAVALEIRO, Albano**

University of Coimbra

COIMBRA, Portugal

[Surface engineering; Sputtering deposition; PVD; Mechanical properties; Tribology; Low friction; Self lubrication; Nanocomposite coatings]

**CHAUDRET Bruno**

Laboratoire de Physique et Chimie des Nano-Objets

UMR 5215 INSA-CNRS-UPS

Institut National des Sciences Appliquées

TOULOUSE, France

[organometallic nanoparticles ; ligands effects ; nanomagnetism ; catalysis ; chemical storage of energy]

**CLAVERIE Alain**

CEMES-CNRS

TOULOUSE, France

[Materials Science for Semiconductor Processing ; Ion implantation, Diffusion, Precipitation ; stress/strain ; Nanoparticles/Precipitates, nucleation/growth/dissolution mechanisms ; Extended defects ; dopant diffusion/activation]

**COUTAZ Jean-Louis**

UMR 5130 CNRS, Grenoble INP, Université Grenoble Alpes et Université Savoie Mont Blanc

IMEP-LAHC, Université Savoie Mont Blanc, campus scientifique

73 376 LE BOURGET DU LAC Cedex, France

[terahertz electromagnetic waves ; very far infrared ; ultrafast optoelectronics ; electro-optics ; non-linear optics ; very fast semi-conductors]

**DE TERESA NOGUERAS, José Maria**

CSIC-UNIVERSITY OF ZARAGOZA

ZARAGOZA, Spain

[Nanofabrication ; nanophysics ; nanomagnetism ; nanosuperconductivity ; graphene]

**DUGOURD Philippe**

Institut Lumière Matière

Université Lyon1,

LYON, France

[Crystals ; Ceramics ; Fibers ; Films ; Multilayers ; Nanoparticles ; Optical, electronic, mechanical, thermal, rheological, magnetic properties ; applications in energy, photonics, health and environment]

**FERNANDEZ SANCHEZ Paloma**

Department Física de Materiales, Fac. of Physics

University Complutense

MADRID, Spain

[optical properties of semiconductors, luminescence, defects, nanostructures]

**FREIRE Paulo Tarso**

Departamento de Física, Universidade Federal do Ceará

FORTALEZA, Brazil

[Raman spectroscopy, high pressure, organic crystals]

**GAFFET Eric**

Institut Jean Lamour (UMR 7198 CNRS - Université de Lorraine)

NANCY, France

[Nanomaterials, Mechanically Activated Powder Metallurgy, Safer by Design / Safer by Process (Nanomaterials Fields), Mechanochemistry, Spark Plasma Sintering]

**GAGOU Yaovi**

LPMC, Université de Picardie Jules Verne

AMIENS, France

[Thin Films and Nanotechnology ; Multiferroics ; Dielectric Spectroscopy; Electrocaloric effect]

**KADRI Abderrahmane**

Laboratoire d'Etude des Matériaux Optoélectronique et Polymères LEMOP

Université d'Oran

ORAN, Algérie

[Quantum wells; LASERs; semi-conductor heterostructures; ZnO; GaAs/GaInP;  $Al_yGa_{1-y}N$ /  $Al_xGa_{1-x}N$ /  $Al_yGa_{1-y}N$  heterostructures]

**MAGÉN, César**

University of Zaragoza, Fundación ARAID

ZARAGOZA, Spain

[[Transmission Electron Microscopy](#), [Nanomagnetism](#), [Complex Oxide Thin Films](#), [Nanostructured Materials](#), [Multiferroics](#)]

**MAIGNAN Antoine**

Directeur de Recherches CNRS

Laboratoire CRISMAT, UMR 6508 CNRS ENSICAEN

Adresse: CRISMAT, ENSICAEN, Boulevard du Maréchal Juin,

14050 CAEN CEDEX, France

[Crystal chemistry ; oxides, chalcogenides ; synthesis ; electronic and magnetic properties ; energy conversion]

**MANO João F.**

University of Aveiro

AVEIRO, Portugal

[Biomaterials ; soft matter ; tissue engineering ; polymer science ; biomimetic oxides ; chalcogenides ; synthesis ; electronic and magnetic properties ; energy conversion]

**MARÉ Thierry**

IUT saint Malo, Université Rennes1  
LGCGM *Laboratoire de Génie Civil et Génie Mécanique*  
RENNES, France  
[nanofluid, heat transfer, desalination, thermal energy]

**MARTIN-GAGO, Jose A.**

Instituto de Ciencia de Materiales de Madrid,ICMM-CSIC  
Madrid, Spain  
[Surface science, graphene, low-dimensional systems, chemical reactions on surfaces, STM,XPS, synchrotron radiation, nanoparticles, Astrochemistry, origin of life]

**MAUREL François**

Université Paris Diderot - ITODYS UMR CNRS 7086  
PARIS, France  
[Molecular plasmonic materials ; Nanomagnetism ; Photochromism ; DFT calculations ; Materials for Nanomedecine ; Molecular electronics ; Organic electronics ; Energy : harvesting, storage and conversion]

**MONTEIRO, Teresa**

Department of Physics and I3N, Institute for Nanostructures, Nanomodelling and Nanofabrication, University of Aveiro  
AVEIRO, Portugal  
[wide bandgap materials/nanomaterials; optical materials; luminescent materials; solid state emitters]

**MULLER Pierre**

CINAM – Centre Interdisciplinaire de Nanosciences de Marseille, Université Aix-Marseille  
MARSEILLE, France  
[Surface dynamics ; solid state dewetting ; Surfaces/interfaces ; crystal growth ; Low Energy Electron Microscopy]

**PELÁIZ-BARRANCO, Aimé**

Ferroic Materials Group, Physics Faculty, Havana University  
La Habana, Cuba  
[ferroelectrics and antiferroelectrics; perovskites and Aurivillius; ceramics and thin films (dip-coating); multiferroics; impedance spectroscopy]

**REMIENS Denis**

IEMN- DOAE - Université de Valenciennes et du Hainaut Cambrésis (UVHC)  
Université des Sciences et Techniques de Lille (USTL)  
VALENCIENNES, France  
[Growth of oxides functional materials; Sputtering deposition; Electrical characterizations at macro and nano scale in particular piezoelectric coefficients determination, micro waves simulations and characterizations (100 GHz); MEMS applications: fabrication and test]

**SAINT-GRÉGOIRE Pierre**

MIPA laboratory  
Universities of Nîmes and of Toulon  
NÎMES/TOULON, France  
[ferroelectrics ; perovskites and tungsten bronzes ; mesoporous semiconductors ; thin films (dip coating) ; (nano)materials for photovoltaics (TiO<sub>2</sub>, ZnO, In<sub>2</sub>S<sub>3</sub>, CZTS, CdTe)]

**VILATELA, Juan José**

IMDEA Materials

MADRID, Spain

[Nanomaterials, energy, composites, carbon nanotubes, fibres]

**ZUNIGA-PEREZ, Jesus**

Centre de Recherche sur l'Hétéro-Epitaxie et ses Applications (CRHEA)

Centre National de la Recherche Scientifique (CNRS)

VALBONNE, France

[Molecular beam epitaxy (MBE) and Metal-Organic Vapour Phase Epitaxy (MOVPE) ; GaN, ZnO, SiC ; Thin films and nanowires ; LEDs, lasers and transistors]