

# Programme

## 21<sup>th</sup> JUNE

| Time      | Speaker   | Title                       |
|-----------|---|-----------------------------|
| 9.00-9.15 | <b>Prof. X. OBRADORS,</b><br>Organizers and SO<br>Meetings Commission | PRESENTATION OF THE MEETING |

## SESSION 1 - Chair: Susagna Ricart

|            |  |   |
|------------|--|---|
| 9.15-9.50  | <b>Jordi Faraudo</b><br><i>Theory and Simulation<br/>Group</i> | "Self-assembly: Thermodynamic concepts"   |
|            |  | <b>Lluís Balcells</b> "One-step route to iron / iron oxide nanostructures<br><i>Advanced Characterization by Cluster Condensation: Implementation in water<br/>and remediation technology"</i><br><i>Nanostructured Materials<br/>Group</i> |
| 9.50-11.10 | <b>SHORT TALKS</b><br>15'+5' questions                         | <b>Jordi Martinez</b> "Exceptional self-assembly by citrate bridge<br><i>Superconducting Materials formation in LnF<sub>3</sub> (Ln= Y and Gd) nanoparticles<br/>and synthesis"</i><br><i>Large Scale<br/>Nanostructures Group</i>          |
|            |  | <b>Arpita Saha</b> "Meta Carboranyl Phosphinates with CdSe<br><i>Functional Molecular and Quantum Dots: Physical Fluorescence<br/>Nanostructured Inorganic Intermittency"</i><br><i>Materials Group</i>                                     |
|            |  | <b>André Espinha</b> "Fabrication of photonic materials by self-assembly<br><i>Nanostructured Materials methods"</i><br><i>for<br/>Optoelectronics Group</i>  |

11.10-11.25

COFFE BREAK

## SESSION 2 - Chair: Imma Ratera

|             |  |  |
|-------------|--|--|
| 11.25-12.00 | <b>Nora Ventosa</b><br>Nanomol         | "Quatsomes: stable nanovesicles with application in nanomedicine and material synthesis"   |
| 12.00-13.00 | <b>SHORT TALKS</b><br>15'+5' questions | <b>Nathaly Segovia</b> "DELOS-SUSP a One-Step Methodology for<br><i>Nanomol Integration of Bioactives in Nanovesicles Using<br/>Compressed Fluids"</i> |

**Wenjie Qian** "Self-Assembled Chiral and non-Chiral Acetate-based Zn(II)-Porphyrins"  
*Functional Nanomaterials and Surfaces group*

**Anna Laromaine** "Albumin Self-Assembled on Iron Oxide Nanoparticles' Surfaces"  
*Nanoparticles and Nanocomposites group*

13.00-13.35 **Clara Viñas** "The significant role of icosahedral inorganic frameworks in producing persistent intramolecular bonds in solid state and solution"  
*Functional Molecular and Nanostructured Inorganic Materials*

13.35-14.30 **Workshop lunch ("pica-pica" at the "rotonda")**

## SESSION 3 - Chair: Carlos Frontera

14.30-15.05 **Narcís Mestres** "Chemical solution route to self-assembled epitaxial oxide nanostructures"  
*Superconducting Materials and Large Scale Nanostructures Group*

**Nùria Bagués** "Misfit Dislocation Guided Topographic and Conduction Patterning in Complex Oxide Epitaxial Thin Films"  
*Advanced Characterization and Nanostructured Materials group*

15.05-16.05 **SHORT TALKS** "Study of colloidal oxide nanoparticle evolution in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> nanocomposites"  
15'+5' questions  
*Superconducting Materials and Large Scale Nanostructures Group*

**Alberto Pomar** "Strategies for guided self-assembly in oxide thin films"  
*Advanced Characterization and Nanostructured Materials group*

16.05-16.20 **COFFE BREAK**

## SESSION 4 - Chair: Núria Aliaga

16.20-16.55 **Arantzazu González** "Supramolecular chemistry and self-assembly: towards new responsive systems"  
*Functional Nanomaterials and Surfaces group*

**Isabel Fuentes** "Metallacarboranes as Redox Indicators for Detecting Gene Mutation"  
*Functional Molecular and Nanostructured Inorganic Materials Group*

16.55-17.55 **SHORT TALKS** "CO<sub>2</sub>-based-surfactant-free microemulsions-like system as futurist universal green medium for chemical processes"  
15'+5' questions

**Nataschia Grimaldi**  
*Nanomol*

**Ezhil Amirthalingam** "Multi-functionalization of microparticles for cancer diagnostics"  
*Functional Nanomaterials and surfaces*

17.55 **END OF FIRST DAY**

## SESSION 5 - Chair: Anna Roig

|            |   |   |
|------------|---|---|
| 9.15-9.50  | <b>Esther Barrena</b><br><i>Physical Chemistry of surfaces and interfaces group</i> | "Self-assembly of organic molecules on surfaces"  |
| 9.50-11.10 | <b>SHORT TALKS</b><br>15'+5' questions  | <p><b>Maria Serena Maglione</b><br/><i>Nanomol</i></p> <p>"SAMs Based on Electroactive Molecules: How and why"</p> <p><b>Rogger Palacios</b><br/><i>Physical Chemistry of surfaces and interfaces group</i></p> <p>"Enantiopure supramolecular motifs of self-assembled chiral molecules"</p> <p><b>Sergi Galindo</b><br/><i>Nanomol</i></p> <p>"Control of morphology and polymorphism in a small-molecule organic semiconductor thin film prepared by solution shearing"</p> <p><b>Ana Pérez</b><br/><i>Physical Chemistry of surfaces and interfaces group</i></p> <p>"Understanding Domain Orientation Mapping of Polycrystalline Organic Semiconductor Films by Transverse Shear Microscopy"</p> |

11.10-11.25

COFFE BREAK

## SESSION 6 - Chair: Jordi Faraudo

|             |   |   |
|-------------|---|---|
| 11.25-12.05 | <b>SHORT TALKS</b><br>15'+5' questions  | <p><b>Xavier Torrelles</b><br/><i>Crystallography of Magnetic and Electronic Oxides and Surfaces group</i></p> <p>"Understanding the interface of self-assembling systems with gold"</p> <p><b>Thomas Roussel</b><br/><i>Theory and Simulation</i></p> <p>"Modeling the Self-Assembly of Molecules on Surfaces"</p> |
| 12.05-12.40 | <b>Núria Crivillers</b><br><i>Nanomol</i>   | "Self-assembly of organic radicals, from surface-monolayers to 3D-structures"   |
| 12.40-13.10 | <b>ROUND TABLE:</b> Carmen Ocal (Chair), Xavier Obradors, Francesc Teixidor, Concepció Rovira, Jaume Veciana, Benjamín Martínez, Núria Aliaga |   |

13.10

CLOSURE