



16<sup>th</sup>-20<sup>th</sup> August 2015  
Cancún, México

**Abstract Submission:**  
• Begins: February 23, 2015  
• Deadline: April 15, 2015

**Tutorials:** August 16, 2015  
**On-site Registration:** August 16, 2015

## Symposia

### 1. Nanoscience and Nanotechnology

- 1A. Clusters and Cluster Assembled Materials.
- 1B. Characteristics, Synthesis and Applications of 2D Nanomaterials.
- 1B. Nano/Meso-Structured Carbon Bulk Materials - Synthesis, Functionalization, Interfacial Properties and Applications.
- 1D. Nanostructured Materials and Nanotechnology.

### 2. Bio And Bio-Inspired Materials

- 2A. Biomaterials and Platforms for Driving Stem Cell Fate.
- 2B. Biomaterials for Medical Applications.

### 3. Materials for Energy

- 3A. Materials and Technologies for Energy Conversion, Saving and Storage (MATECSS).
- 3B. Photovoltaics, Solar Energy Materials and Technologies.
- 3C. Renewable Energy and Sustainable Development.

### 4. Fundamental Materials Science

- 4A. Advances in Computational Materials Science
- 4B. From Structural to Mechanical Properties of Disordered Solids.
- 4C. Frontiers in Plasmonic Materials.
- 4D. New Trends in Polymer Chemistry and Characterization.
- 4E. Powder Processing, Sintering & Consolidation Technologies.
- 4F. Shear Transformation Mechanisms and their Effect on Mechanical Behavior of Crystalline Materials
- 4G. Trends on Severe Plastic Deformation.

### 5. Materials Characterization

- 5A. Micro and Nanomechanical Testing of Materials
- 5B. Structural and Chemical Characterization of Metals, Alloys and Compounds.
- 5C. Electron Microscopy of Materials and Nanomaterials.

### 6. Materials for Specific Applications

- 6A. Advanced Catalytic Materials.
- 6B. Advanced Structural Materials.
- 6C. Effect of SCM and Smart Additives on the Properties of Concrete Structures.
- 6D. Innovative Production and Application of Structural and Functional Ceramic and Metal-matrix Composites.
- 6E. Luminescent Materials: Basic Phenomena and Applications (in Celebration of the International Year of Light).
- 6F. Materials and Environment.
- 6G. Materials Science of Pharmaceutical Solids.
- 6H. Materials in Nuclear Science and Technology.
- 6I. Multiferroic Material Systems and Multilayer Ferroic Heterostructures: Experiment, Theory, Properties, and Applications.
- 6J. NACE: Corrosion And Metallurgy.
- 6K. Soft Chemistry toward Functional Materials.

### 7. Magnetic and Electronic Materials.

- 7A. Advances In Functional Semiconducting Materials
- 7B. Functional Magnetic Materials for Electrical Machines and Power Electronics.
- 7C. Magnetism and Superconductivity in New Materials.
- 7D. Materials & Devices for Flexible & Large Area Electronics.
- 7E. Phase Transitions in Magnetic Materials: From Fundamentals to Applications.

### 8. General

- 8A. Estrategias de Vinculación Academia Industria (Strategies for Academy-Industry Relationships)

### CHAIRS

**José Gerardo Cabañas Moreno.** General Chair.  
CINVESTAV

**Lioudmila Fomina.** Instituto de Investigaciones en Materiales.  
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