Sociedad Mexicana de Materiales SMM-MÉXICO
The Materials Research Society MRS
AUGUST 19-24, 2018

Plenary SPEAKERS
The IMRC 2018 plenary speakers will share their unique insights and viewpoints in materials research and technology.

Prof. Ben L. Feringa
University of Groningen
Netherlands
Nobel Prize in Chemistry 2016

Prof. Amanda S. Barnard
CSIRO
Australia

Prof. Galo Soler Illia
Universidad Nacional de San Martín, Argentina

Prof. Yuichi Ikuhara
University of Tokyo
Japan

Prof. Susan Trolier-McKinstry
Pennsylvania State University, U.S.A.

Prof. Claudia Gutierrez-Wing
Instituto Nacional de Investigaciones Nucleares - México
General CHAIR
SMM President, 2017-2018

Meeting CHAIRS

Cecilia Noguez
Instituto de Física
Universidad Nacional Autónoma de México

Hans M. Christen
Center for Nanophase Materials Sciences, Oak Ridge National Laboratory, U.S.A

Coray M. Colina
Department of Chemistry
University of Florida U.S.A.

Ciro Falcony
INVESTAV México

Science, Technology and Society Lecture
Mtro. Leonardo Beltrán
Deputy Secretary for Planning and Energy Transition, Secretariat of Energy, México

Symposia

A. Nanomaterials and 2D Materials

A1. Nanocrystalline Carbon Materials and their Applications
A4. Silicon Based Nanoscopic Electronic Devices
A5. Thin engineered Coatings, Surfaces, and Interfaces

B. Hybrid Materials, Bioinspired Materials, and Soft Matter

B1. New Trends in Polymer Chemistry and Characterization
B2. Micro and Nanoscale Biomaterials
B3. Advanced Functional Materials for Tissue Engineering
B4. Innovative Smart Materials for Flexible/ Wearable and Large Area Electronics

C. Materials for Energy Conversion, Storage, and Harvesting

C1. Electromechanical Energy Storage and Generation: Batteries, Supercapacitors and Fuel Cells
C2. Challenges in Materials and Technologies for Energy Conversion, Storage and Bioenergy (MATESSEC)
C3. Solar Hydrogen Production
C4. Photonics, Solar Energy Materials and Technologies
C5. Materials for High Electric Power Applications
C6. Heat Transfer and Nanofluids
C7. Metal Organic Frameworks and their Applications

D. Development of New Characterization, Modeling, Data Analytics and Design Methods

D1. Computational Discovery of Advanced Materials
D2. Machine Learning and Data Science in Materials Synthesis, Characterization and Modeling
D3. Texture and Microstructure
D4. Probing Nanomaterials in Space or Time with High Spatial and Energy Resolution
D5. In-situ and Operando Microscopy of Electronic and Energy Materials
D6. Characterization of Nanomaterials Using Diffraction and Combined Techniques
D7. Structural and Chemical Characterization of Metals and Alloys

E. Structural Materials and Metallurgy

E1. Structural Lightweight Metallic Alloys: Synergies Between Processing and Alloy Development
E2. Advanced Structural Materials: Mechanics, Properties and Applications
E3. Materials in Nuclear Science and Technology
E4. NAEC: Converging and Maturity
E5. Steels

F. General

F1. New Advances in Superconductivity and Magnetism: 1D, 2D and 3D
F2. Advances in Functional Semiconducting Materials
F3. Garnet-Based Materials: Niro and Blue
F4. BNitride Materials
F5. Materials and the Environment
F6. Strategies for Academy-Industry Relationship
F7. Preparing the Next Generation of Materials Scientists with New Approaches

Workshop

WS Advanced Defense Materials Workshop

Venue:
JW Marriott Cancun Resort & Spa
Marriott Cancun Resort