

People's Democratic Republic of Algeria
Ministry of Higher Education and Scientific Research
General Directorate for Scientific Research and Technological Development

University M'hamed Bougara of Boumerdes
Faculty of Engineering Sciences
Research Unit: Materials, Processes and Environment

CALL FOR PAPERS



**4th INTERNATIONAL SYMPOSIUM ON
MATERIALS AND SUSTAINABLE
DEVELOPMENT**

Boumerdes - Algeria, November 12 - 14, 2019



The 4th International Symposium on Materials and Sustainable Development **ISMSD2019** (**CIMDD2019**) will comprise a 3-day Conferences (**12 - 14 November**). Organized by the **Research Unit: Materials, Processes and Environment** (www.urmp.e.dz) and **University M'hamed Bougara of Boumerdes**, this symposium follows the success of CIMDD 2013-2015-2017 and continues the traditions of the highly successful series of International Conferences on the materials, processes and Environment. The Symposium will provide a unique topical forum to share the latest results of the materials and sustainable development research in Algeria and worldwide.

It brings together the engineering, physics, and material science communities working on advanced materials and their applications. Thus, during two days, the various scientific disciplines concerned by Materials and Sustainable Development will be focused on 4 main topics. Today, with the emergence of research centers and laboratories, it is imperative to move towards solutions to the problems posed and plan them for the years to come and maintain the effort of permanent research towards new investigations

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Topics of interest for submission include, but are not limited to:

Topic 1: Nanomaterials, Nanotechnology and Emerging Smart Materials

Advanced Materials and Functional Devices, Engineering Materials, Composite Materials, Magnetism and Multiferroism, Optical Materials and Plasmonics, Energy and Harvesting Materials, Nanotechnology-Basics to Applications, Nano Materials,etc, Nanoparticle Synthesis and Applications, Nanostructured thin films, biomaterials and Biomass, Piezoelectric and electroluminescent materials.

Topic 2: Cementitious Materials and Materials Properties

Materials Chemistry, Polymer materials, Structural chemistry of materials, Green Building Materials and Technologies, Advances in Cement based materials, Sustainable Resources and Materials Use, Material Quality and Control, Smart & Sustainable Materials, Concrete Technology, Geo-polymer composite materials, Ductility, Crack Resistance, Fatigue, Creep-resistance, Fracture Mechanics, Mechanical Properties, Electrical Properties, and Magnetic Properties, Corrosion, Erosion, Wear Resistance, Non-Destructive Testing.

Topic 3: Renewable Energy, Development Sustainable, Recycling and Environment

Development and Utilization of Solar Energy, Energy Materials, Energy Chemical Engineering, Energy Security and Clean Use, Green Building Materials and Energy-saving Buildings, Hydrogen and Fuel Cell, Storage Technology, Development and Utilization of Biomass Energy, Water Resource Management, Soil Contamination and the Remediation Technologies, Solid Waste Management and Pollution Control, Hazardous Waste Management, Advanced waste treatment technologies, Best practices of efficient waste, Renewable Energy from Waste, Environmental aspects of waste treatment technologies, Recycling/resource recovery.

Topic 4: Materials Manufacturing and Processing

Surface Treatment, Machining, Plastic Forming, Quality Assessment, Powder Technology, Automation Engineering Processes, Working Properties of Materials and Products, Natural and Synthetic Textile Materials & Processing; Processing Technology for Functional Materials, Advanced Composite and Hybrid Processes, Modeling and Simulation of Manufacturing Processes, Design of Equipment and Tools, Evolution of Material Properties, Function Test and Evaluation Technology, Manufacturing and Processing

IMPORTANT DATES

June 30, 2019: Registration and abstract submission;

July 31, 2019: Notification of Acceptance;

September 30, 2019: Full Paper Submission;

November 12 - 14 2019: Conference Dates.

ISMSD2019

VENUE

The ISMSD2019 will be held at the
**University M'hamed Bougara of
Boumerdes, Boumerdes, Algeria.**

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**Secretary of
ISMSD2019**

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