

1st CALL FOR PAPERS

4th INTERNATIONAL CONFERENCE ON ENERGY, MATERIALS, APPLIED ENERGETICS AND POLLUTION (ICEMAEP'2018)

CONSTANTINE, ALGERIA, April 29th -30th 2018

ORGANIZATION

The conference is organized by

- **The LAEP Laboratory** (Laboratory of Applied Energetics and Pollution, Department of Mechanical Engineering, Mentouri Brothers University of Constantine, Algeria)
- and
- **The LATA Laboratory** (Laboratory of Advanced Technological Applications, Department of Mechanical Engineering, Mentouri Brothers University of Constantine, Algeria)

in collaboration with the following laboratories:

- **The GRESPI Laboratory** (Research Group in Engineering Sciences, Faculty of Exact and Natural Sciences, University of Champagne Ardennes, France).
- **The LM Laboratory** (Laboratory of Mechanics, Department of Mechanical Engineering, University of Laghouat, Algeria).
- **The LTA Laboratory** (Laboratory of food Technology, Department of Environmental Engineering, Faculty of Engineering, University of Boumerdes, Algeria)
- **The SDIRL laboratory** (Systems Dynamic, Interaction and Reactivity Laboratory), University of Ouargla, Algeria

PRESENTATION

This conference will be an opportunity for scientific exchange on contributions of any kind (theoretical, numerical and experimental) on energy issues, materials, applied energy and pollution. The exchange will take place between researchers (PhD students and lecturers) and people from industry. The work will be presented as posters or in oral form. Original contributions are solicited, especially in the following research fields : new energy sources ; new materials used in construction or in various industrial fields; renewable energy applications in the industry, such as the refrigeration industry; flows where fluids and solids (rigid or deformable) interact; the control of such flows (control of detachments, of onset of laminar-turbulent transition, of noise, ...) in order to improve aerodynamic and energetic performances and reduce nuisances; the significant advances in the areas of thermal sciences such as in the domains of the characterization of thermal properties of new materials, of fields measurements ; the development of models in configurations at small scales or at very high temperatures; combustion and atmospheric pollution from internal combustion engines and applications of energetics in the various fields of industry (biomechanics, aeronautics, automotive, shipbuilding and offshore construction, marine energy, civil engineering, nuclear industry, ...).

TOPICS OF THE CONFERENCE

The conference includes oral and poster sessions, covering the following topics:

Topic 1. Energy

- Systems, materials and physics of renewable energy;
- Solar photovoltaic and thermal energy;
- Wind energy systems;
- Renewable energies applied to cold, agriculture, water, etc ;
- ICT applications in renewable energy, applications in transport and various industries (e.g. cold);
- Systems and materials of fuel cells;
- Hydrogen energy;
- Energy from urban waste;
- Energy efficiency and environmental concerns;
- Systems and materials of energy storage;
- Green buildings;
- Transport and distribution of energy.

Topic 2. Materials

- Optical, electronic and magnetic materials;
- Ceramic materials;
- Environmental and green materials;
- New materials for cells / solar modules;
- Granular materials and suspensions;
- Use of quantum chemistry methods (HF, Post-HF, DFT and TD-DFT) for the discovery of new molecular structures and nanostructures;
- Metal oxide materials for applications in solar energy;
- Functionally graded materials (FGM) for applications in solar energy;
- Nanomaterials; composite materials; nano-composite materials; nanotechnology;
- Carbides of titanium, zircon and chromium;
- Materials for gas sensors;
- Carbon nanotubes;
- Chalcopyrite new materials and materials for photovoltaic and optical applications;
- Biomaterials; vegetable-based insulation materials with phase change;
- Biodevices; nanobiosensors;
- Durability of materials and structures;
- Micro and nano-structured systems;
- Heat transfer and mass transfer in building materials;
- Bioclimatic architecture;
- Recycling of materials, processing and recovery;
- Computational materials;
- Strength of materials;
- Structural dynamics;
- Damage and rupture of materials;
- Modeling and numerical simulation of welding.

Topic 3. Applied Energetics

- Energetics;
- Heat and mass transfer;
- Drying;
- Combustion;
- Fluid mechanics;
- Fluid-structure interactions;
- Rotating and / or stratified flows;
- Mhd flows;
- Internal combustion engines;
- Turbomachinery;
- Rheology and complex fluids.

Topic 4. Pollution

- Energy and environment;
- Atmospheric pollution ;
- Water pollution ;
- Soil pollution ;
- Environment and sustainable development ;
- Characterization of urban waste;
- Reduction of urban waste and pollution.

MEMBERS OF THE INTERNATIONAL ADVISORY COMMITTEE

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AGEE J.T.	South Africa	BENMANSOUR T.	Constantine, Algeria

CALL FOR PAPERS

The full texts of proposals (minimum 5 pages, maximum 8 pages) in French or English must be prepared preferably using the template of the conference which will be required to accepted articles. The presenters can also use for this initial version of their paper any template. Papers should be sent **in .docx format** by email to the following address:

ciemeap2018@gmail.com

Each paper must contain the title, the names of the authors, a summary, a nomenclature, an introduction, the mathematical model if it is a simulation paper or the experimental method if it is an experimental study, a discussion of the results, the conclusions and the references.

PUBLICATION OF THE BEST ARTICLES IN JOURNALS

The best conference papers will be published in special issues of the following journals:

- **Science and Technology Journal**, an international journal published by the University of Constantine1, <http://revue.umc.edu.dz>, ISSN: 1111-5041
- **Journal of Materials Science**, an international journal published by the University of Biskra, <http://revues.univ-biskra.dz/index.php/sdm>, ISSN: 2352-9954
- **Algerian Journal of Environmental Science and Technology**, an international journal published by the University of Boumerdes, <http://www.aljest.webs.com>, ISSN: 2437-1114

PARTICIPATION FEE

The participation fee depends on the type of participation (**participation without accommodation** or **participation with accommodation**). They are given in the following table:

	Participation fee without accommodation	Participation fee with accommodation (nights of 28 and 29 /04/2018)
Algerian presenters	10000 DA	20000 DA
Foreign presenters	200 Euros	250 Euros
Attendees from the Algerian socio-economic sector	15000 DA	25000 DA
Attendees from the foreign socio-economic sector	220 Euros	270 Euros

The participation fee without accommodation entitles participants to access to the various sessions, to conference proceedings (with ISBN), to coffee breaks, to lunches, to the gala dinner and to the guided tour of the tourist areas in the city of Constantine.

The participation fee with accommodation entitles participants to full board accommodation, to the means of transport between the hotel and the conference venue, to access to the various sessions, to conference proceedings (with ISBN), to coffee breaks, to lunches, to the gala dinner and to the guided tour of the tourist areas in the city of Constantine.

DEADLINES

- Deadline for submission of full papers containing between 5 and 8 pages (preferably drafted in accordance with the conference template): **February 10th, 2018**.
- Deadline for receipt of the notice of acceptance: **March 20th, 2018**.
- Deadline for sending the final versions of accepted papers: **April 1st, 2018**.

All accepted papers will be published in the conference proceedings with an ISBN number.

The proceedings will go to print on **Monday, April 10th, 2018**.

SECRETARIAT OF THE CONFERENCE

- **Tel: 0773403523; Fax :031811140**
- **Email: ciemeap2018@gmail.com**