



1ST ANNOUNCEMENT

IVth International Symposium on Innovative Materials for Processes in Energy Systems 2016 (IMPRES 2016)

October 23–26, 2016
Taormina, Sicily, Italy

Organizer:
IMPRES2016 Organizing Committee

Co-organizers:
Consiglio Nazionale delle Ricerche (CNR) - Istituto di Tecnologie Avanzate per l'Energia "Nicola Giordano" (ITAE)

International Institute for Carbon-Neutral Energy Research (WPI-I²CNER), Kyushu University, Japan

The Society of Chemical Engineers, Japan

Symposium web-site: www.impres2016.org

CONFERENCE OUTLINE

This international symposium welcomes all professionals devoted to theories, experiments, and simulations, on the development of functional materials for fuel cells, heat pumps, heat storage, sorption systems and their applied aspects. Attendees will include researchers, academics, consulting engineers, design engineers, contractors, architects and manufacturers. IMPRES has been held in every three years and this is the fourth international conference after the successful completion of IMPRES2007 in Kyoto, Japan, IMPRES2010, Singapore and IMPRES2013 in Fukuoka. We hope to have stimulating and lively discussion in Taormina.

SCOPE

The conference is concerned with the application of novel materials in the field of energy systems with special focus on the multi-phase processes in various energy conversion systems. Materials for fuel cells, heat pumps, sorption systems and other energy conversion and storage devices will be discussed. Common concerns include material reactivity, heat and mass transfer characteristics, durability, stability under high-temperature and severe conditions and cost. This conference aims to bring researchers focusing on different aspects of multi-phase processes in energy conversion and promote an interchange of ideas across subjects.

TOPICS

The following list of topics illustrate the scope of the conference

Biomass energy conversion
Chemical heat pumps
Desiccant systems
Desalination
Durability in repetitive operation including severe conditions
Heat and mass transfer
Hydrogen production and storage
Electricity storage
Membrane reactors
Phase change material heat storage
Photovoltaic
Polymer electrolyte and low temperature fuel cells
Solid oxide and intermediate temperature fuel cells
Sorption heat pumps
System reliability (corrosion, sealing, selectivity, etc.)
Thermal energy conversion and storage
Thermoelectric devices
Thermophysical properties
Others

ABSTRACT SUBMISSION

The conference will be conducted in English. Extended abstract(s) (2-pages) related to the above topics are invited by March 31, 2016. The extended abstract stating clearly the objective of the work, results and a brief conclusion should be submitted electronically to:

info@impres2016.org

Author(s) should indicate which topic area the abstract is addressing. Abstracts not addressing the above topics should be labeled as "other".

- Technical papers will be presented either orally or by posters
- All accepted abstracts will be published in a book of proceedings.
- Selected contributions from the symposium will be published, after peer review process, in:
 - Applied Thermal Engineering,
 - Heat Transfer Engineering,
 - International Journal of Hydrogen Energy



DEADLINES

Submission of abstract: March 31, 2016

Notice of acceptance: April 30, 2016

CONFERENCE FEE

The attendance fee is of about 500 € (not covering travel- and accommodation costs), but including catering, lunches, gala dinner, book of abstracts and USB Drive.

VENUE

Hotel Villa Diodoro, Taormina, Sicily, Italy

<http://www.hotelvilladiodoro.com/en/home.html>



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Luikov Heat and Mass Transfer Institute, Belarus

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ATTRACTIVE PLACES IN TAORMINA

Taormina has been a very popular tourist destination since the 19th century, due to the heritages of Greeks, Romans, Byzantines, Saracens and Normans. The town is perched on a cliff overlooking the Ionian Sea. Besides the famous ancient Greek theatre, it has many old churches, lively bars, fine restaurants, and antique shops. The nature, food and arts are further attractions of this pleasant city. Taormina is close to Messina and easily accessible from Catania airport.

