

## CALL FOR PAPERS

Prospective authors are invited to submit electronically previously unpublished papers relevant to the workshop topics.

Papers will be reviewed upon two page extended abstracts, to be included in the Workshop Proceedings. Authors of accepted extended abstracts will be encouraged to submit a full version (up to 6 pages) of the papers at the Workshop, which will be reviewed for inclusion in a special volume of the "Materials Science Forum".

For instructions on preparation of extended abstracts please consult the Workshop Web site:

<http://www.ntua.gr/JAPMED8>

For further information, please contact the Conference Secretariat.

## CONFERENCE SECRETARIAT

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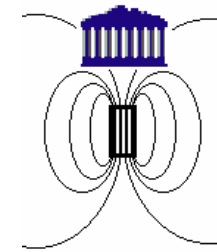
## TOPICS

The scope of the Workshop includes: Advances in Analysis, Characterization and Manufacturing of Advanced Materials (Magnetic, Superconducting, Multifunctional and Nanostructured Materials).

The topics related to new developments are:

- Computational electromagnetics
- Magnetohydrodynamics
- Losses analysis
- Devices (magnetic circuits, transformers, electrical machines, micro-machines)
- Magnetic material processing
- Magnetic material characterization
- Perspectives of high -T<sub>c</sub> superconductors
- Modeling of superconductive properties
- Characterization techniques
- Processing of bulk superconductors
- Processing of thin and thick film superconductors
- Applications in energy (electricity/electronics), environment and transportation (levitation, electrical/ magnetic machines, flywheels, HTS/metal junctions, shielding, SQUIDS)
- Computational materials science
- Multifunctional materials for energy conversion
- Nanotechnology
- Nanostructured materials, nanocomposites
- Ultraprecision engineering (static/dynamic/ shock loading)
- Biomedical engineering

# JAPMED' 8



## **Eighth Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting, Multifunctional and Nanomaterials**

### **First Announcement and Call for Papers**



**National Center for Scientific  
Research "Demokritos"  
June 23 – 26, 2013  
Athens, Greece**

## PRESENTATION

The eighth Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Super-conducting, Multifunctional and Nanomaterials (JAPMED'8) is continuing and extending the successful previous events: two Japanese-Greek Joint Workshops held in Athens (Greece, 1999) and Oita (Japan, 2001), followed by five Japanese-Mediterranean Joint Workshops held in Athens (Greece, 2003), Cairo (Egypt, 2005), Larnaca (Cyprus, 2007), Bucharest (Romania, 2009) and Budapest (Hungary, 2011), respectively.

The aim of the workshop is to create a link for the participants to share knowledge and experience and for the cross-fertilization of new ideas and developments in applied electromagnetics, design, analysis, new material utilization, from macro-, micro-, to nanoscale and optimization techniques including applications related to biomedical engineering, superconductivity, ultraprecision engineering, nanotechnology, energy and environment. Topics related to practical applications, operation, maintenance are also highly encouraged.

The JAPMED'8 will be jointly organized by the Japanese Society of Electromagnetics and Mechanics (JSEM), the Project Center for Nanotechnology and Advanced Engineering (PC-NAE), a joint initiative of the National Center for Scientific Research "Demokritos" and the Russian Research Center "Kurchatov Institute", the National Technical University of Athens (NTUA) and the International Institute for Multifunctional Materials for Energy Conversion (IIMEC), Texas, USA.

## IMPORTANT DATES

- November 15, 2012:** Deadline for extended abstracts submission.  
**February 15, 2013:** Acceptance notification.  
**April 15, 2013:** Early registration due.  
**May 15, 2013:** Full paper electronic submission.

## LANGUAGE

English will be the official language of the Workshop and will be used for both extended abstracts and presentations.

## REGISTRATION

The registration fee for participants includes: Workshop Attendance, Conference Proceedings, Certificate of Attendance, Coffee breaks, Welcome Reception and Traditional Conference Dinner, City tour, as well as a last day trip.

The registration fee is: **300 €** for participants registered before April 15, **350 €** after April 15, **200 €** for students, and **150 €** for accompanying spouses.

## CONFERENCE VENUE

The conference will be held at the National Center for Scientific Research "Demokritos".

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