

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Prospective authors are invited to submit electronically previously unpublished papers relevant to the workshop topics.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://japmed9.ntua.gr/>

For further information, please contact the Conference Secretariat.

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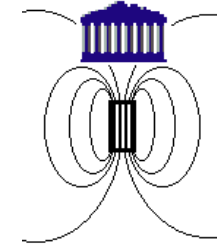
TOPICS

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
- Generation by renewable energy sources
- Magnetohydrodynamics
- Losses analysis
- Devices (magnetic circuits, transformers, electrical machines, micro-machines)
- Magnetic material processing
- Magnetic material characterization
- Perspectives of high -T_c 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' 9



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

**Announcement
and Call for Papers**



**Technical University of Sofia
July 5 – 8, 2015
Sofia, Bulgaria**

PRESENTATION

The ninth Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Super-conducting, Multifunctional and Nanomaterials (JAPMED'9) is continuing and extending the successful previous events: two Japanese-Greek Joint Workshops held in Athens (Greece, 1999) and Oita (Japan, 2001), followed by six Japanese-Mediterranean Joint Workshops held in Athens (Greece, 2003), Cairo (Egypt, 2005), Larnaca (Cyprus, 2007), Bucharest (Romania, 2009), Budapest (Hungary, 2011), and Athens (Greece, 2013), respectively.

The aim of this Conference 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 (magnetic, superconducting, multifunctional, nanomaterials) utilization, static- to shock-processing from macro-, micro-, to nanoscale and optimization techniques, including applications related to advanced manufacturing, ultraprecision engineering, nanotechnology, biomedical engineering, transport, energy and environment. Topics related to practical applications, operation, maintenance are also highly encouraged.

The JAPMED'9 will be jointly organized by: the Japan Society of Applied Electromagnetics and Mechanics (JSAEM); 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); the International Institute for Multifunctional Materials for Energy Conversion (IIMEC), Texas, USA; the Technical University of Sofia (TUS) and the Bulgarian Union of Electronics, Electrical Engineering and Telecommunications (CEEC).

IMPORTANT DATES

November 15, 2014: Deadline for extended abstracts submission.

February 15, 2015: Acceptance notification.

April 15, 2015: Early registration due.

May 15, 2015: 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. Special discount country list with reduced rate registration will be proposed.

CONFERENCE VENUE

The conference will be held at the Technical University of Sofia.

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