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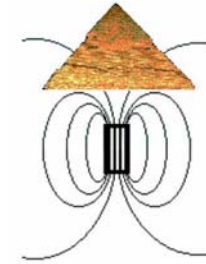
The Academy of Scientific Research & Technology



**JSAEM**

The Japan Society of  
Applied Electromagnetics and Mechanics

# JAPMED'4



4th Japanese-Mediterranean Workshop  
on Applied Electromagnetic Engineering  
for Magnetic, Superconducting and Nano Materials

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<http://www.ntua.gr/JAPMED4>

**Announcement  
and  
Call for Papers**

**El Gezira Cairo Hotel**

**September 17 – 20, 2005**

**Cairo, Egypt**

## PRESENTATION

The fourth Japanese-Mediterranean Joint Workshop (JAPMED'4) is continuing and extending the successful three previous events: two Japanese-Greek Joint Workshops held in Athens (Greece, 1999) and Oita (Japan, 2001) and the third Japanese-Mediterranean Joint Workshop held in Athens (Greece, 2003), 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, and optimization techniques focussing on applications related to superconducting flywheels. Topics related to practical applications, operations, maintenance are also highly encouraged.

## TOPICS

The scope of the workshop includes: Advances in Analysis, Manufacturing and Measurements of Advanced Materials (Magnetic, Superconducting and Nanostructured Materials). The topics are related to new developments in the following:

- Computational Electromagnetics
- Magnetic material characterization
- Nanotechnology
- Magnetohydrodynamics
- Bioengineering
- Losses analysis
- Magnetic Material Processing
- Design
- Applications in Energy and Environmental Aspects
- Devices (Magnetic circuits, Transformers, Electrical Machines, micro-machines)
- Superconducting Flywheels
- Perspectives of High -T<sub>c</sub> superconductors
- Modelling of superconductive properties
- Characterization techniques
- Processing of bulk superconductors
- Processing of thin and thick film superconductors
- Special measurement techniques
- Applications in electricity/electronics and transportation (Levitation, electrical/magnetic machines, HTS/metal junctions, shielding, squids)

## VENUE

The Workshop will be held in the El Gezira Cairo Hotel near the center of the town. Address:

P.O. Box 264 Orman Giza  
(Giza) Cairo, 11511 Egypt  
Mr. Hesham Labib, e-mail: H5307@accor.com

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## SEMINARS

Specialized seminars will be held on the workshop topics concerning Nanotechnology, Materials, and Energy. These seminars will be organized in conjunction with keynote presentations by: M. Abdou (UCLA, USA), A.G. Mamalis (NTUA, Greece), C.M. Ho (UCLA, USA), N. Ghoniem (UCLA, USA) and R. Azzam (University of New Orleans, USA).

## IMPORTANT DATES

Prospective authors are invited to submit (by e-mail to the Workshop Executive Committee Secretariat as attached files in Word or PDF format) 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 peer reviewed for inclusion in a special volume of the "Journal of Materials Processing Technology" (Elsevier).

For instructions on preparation of extended abstracts please consult the Workshop Web site : [www.ntua.gr/JAPMED4](http://www.ntua.gr/JAPMED4)

**April 15, 2005:** Deadline for extended abstracts submission.

**May 15, 2005:** Acceptance notification.

**July 31, 2005:** Early registration due.

**September 17, 2005:** Full paper submission during the Workshop.

## LANGUAGE

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

## REGISTRATION

The registration fees per participant, including Cruise on the Nile, Sahara dinner, Pyramide light and sound show, coffee breaks and Workshops Proceedings are 350 \$ (US Dollars). Reduced fees of:

- 300 \$ for participants registered before June 30 and
- 200 \$ for students will be ensured

## INQUIRIES

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