

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Prospective authors are invited to submit electronically previously unpublished papers relevant to the Workshop topics.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 special Issues of [Nanotechnology Perceptions](#) and [Journal of Biological Physics and Chemistry](#).

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

<http://japmed12.bsu.edu.ge>

For further information, please contact the Conference Secretariat.

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TOPICS

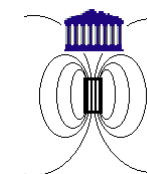
The **scope** of the Conference includes:

Advances in Analysis, Characterization and Manufacturing of Advanced Materials (Magnetic, Superconducting, Multifunctional, Nanostructured Materials).

The **topics** related to new developments are:

- Computational electromagnetics
- Generation by renewable energy sources
- Magneto-hydrodynamics
- Losses analysis
- Devices (magnetic circuits, transformers, electrical machines, micro-machines)
- Magnetic material processing
- Magnetic material characterization
- Perspectives of high -T_c superconductors
- Modelling of superconductive properties
- Laser plasma deposition (LPD) technology and novel devices based on it
- Characterization techniques
- Processing of bulk superconductors
- Processing of thin/thick film superconductors
- Applications in energy (electricity/electronics, green energy), 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 to shock loading)
- Biomedical engineering
- Advanced industrial technologies ("Industry-4.0")
- Mathematics and its Applications
- Sustainability

JAPMED'12



Announcement and Call for Papers



Batumi Shota Rustaveli State University
17-20 July, 2023
Batumi, Georgia

PRESENTATION

The twelfth Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting, Multifunctional and Nanomaterials (JAPMED'12) is continuing and extending the successful previous events: two Japanese-Greek Joint Workshops held in Athens, Greece (1999) and Oita, Japan (2001), followed by nine Japanese-Mediterranean Joint Workshops held in Athens, Greece (2003), Cairo, Egypt (2005), Larnaca, Cyprus (2007), Bucharest, Romania (2009), Budapest, Hungary (2011), Athens, Greece (2013), Sofia, Bulgaria (2015), Izmir, Turkey (2017) and Batumi, Georgia (2019), 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 and sustainability are also highly encouraged.

The JAPMED'12 will be jointly organized by the: Japan Society of Applied Electromagnetics and Mechanics (JSAEM); Project Center for Nanotechnology and Advanced Engineering (PC-NAE), Athens, Greece; National Technical University of Athens (NTUA), Greece; Texas A&M University (TAMU), USA; University of Nevada, Reno (UNR), USA; Izmir Institute of Technology (IZTECH), Turkey; Beijing Institute of Technology (BIT), P.R. China; Batumi Shota Rustaveli State University (BSU) and Georgian Technical University (GTU), Georgia.

The JAPMED'12 is dedicated to LYDIA, the beloved Granddaughter of the Founder of the JAPMED Conferences Academician Professor Dr-Ing. Dr.h.c. Prof.h.c. A.G. Mamalis

IMPORTANT DATES

March 10, 2023: Deadline for extended abstracts submission

March 31, 2023: Acceptance notification

April 28, 2023: Early registration due

May 31, 2023: 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 Excursion.

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

The conference will be held at Batumi Shota Rustaveli State University, Batumi, Georgia.

CONFERENCE VENUE

The conference will be held at Batumi Shota Rustaveli State University, Batumi, Georgia.

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