

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Prospective authors are invited to submit electronically previously unpublished papers relevant to the workshop topics.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

<http://>

For further information, please contact the Conference Secretariat.

CONFERENCE SECRETARIAT

L.Kalandadze (Batumi Shota Rustaveli State University, Batumi, Georgia)

I. Jabnidze (Batumi Shota Rustaveli State University, Batumi, Georgia)

N. Japaridze (Batumi Shota Rustaveli State University, Batumi, Georgia)

Tel: +995 422 271797

Fax/Tel: +995 422 271797

Email: info@bsu.edu.ge
gomidze@bsu.edu.ge

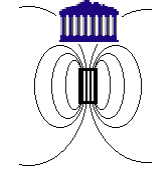
TOPICS

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:

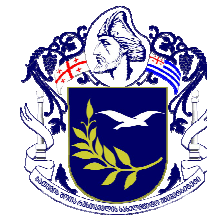
- Computational electromagnetics
- Generation by renewable energy sources
- Magnetohydrodynamics
- Losses analysis
- Devices (magnetic circuits, transformers, electrical machines, micro-machines)
- Magnetic material processing
- Magnetic material characterization
- Perspectives of high -T_c superconductors
- Modelling 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
- Mathematics and it's Applications

JAPMED' 11



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

Announcement and Call for Papers



**Batumi State University
25-28 June, 2019
Batumi, Georgia**

PRESENTATION

The Eleventh Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting, Multifunctional and Nanomaterials (JAPMED'10) is continuing and extending the successful previous events: two Japanese-Greek Joint Workshops held in Athens, Greece (1999) and Oita, Japan (2001), followed by seven 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) and Izmir, Turkey (2017), 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'11 will be jointly organized by the: Japan Society of Applied Electromagnetics and Mechanics (JSAEM); Project Center for Nanotechnology and Advanced Engineering (PC-NAE), a joint initiative of the Greek National Center for Scientific Research "Demokritos" and the Russian Research Center "Kurchatov Institute"; 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 State University (BSU) and Georgian Technical University (GTU).

IMPORTANT DATES

January 15, 2019: Deadline for extended abstracts submission

March 15, 2019: Acceptance notification

April 15, 2019: Early registration due

June 15, 2019: 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: 350 € for participants registered before April 15, 300 € after April 15, 150€ for students, and 100€ for accompanying spouses. Georgian participants 100€.

CONFERENCE VENUE

The conference will be held at Batumi State University, Batumi, Georgia

EXECUTIVE COMMITTEE

Honorary Chairman

A.G. Mamalis (PC-NAE, NCSR "Demokritos", Greece)

Chairman

M. Enokizono (Oita University, Japan)

Co-Chairmen

A. Kladas (National Technical University of Athens, Greece)

T. Sawada (Keio University Japan)

Y. Ido (Nagoya Institute of Technology, Japan)

D. Lagoudas (Texas A&M University, USA)

T. Cagin (Texas A&M University, USA)

E. Maragakis (University of Nevada, Reno, USA)

M. Güden (Izmir Institute of Technology, Turkey)

P. Chen (Beijing Institute of Technology, P.R. China)

P. Kervalishvili (Georgian Technical University, Georgia)

J. Ramsden (University of Buckingham, UK)

INTERNATIONAL ADVISORY COMMITTEE MEMBERS

B. Alzahabi (Alghurair University, Dubai, UA)

F. Azhar (Universiti Teknikal Malaysia Melaka, Malaysia)

Y. Ando (Gunma University, Japan)

N. Athanasoulis (National Technical University of Athens, Greece)

M. Bramantya (Gadjah Mada University, Indonesia)

X. Chaud (LNCMI/CNRS, France)

N. Chikhradze (LEPL Mining Institute, Tbilisi, Georgia)

C. Chirwa (PPA Group Limited, Deeside, Flintshire, UK)

L. Chubraeva (NII Electromash, Russia)

M. Demir (Izmir Institute of Technology, Turkey)

X. Doumanidis (Nazarbayev University, Kazakhstan)

M. Eisterer (Atominstytut, Vienna University of Technology, Austria)

J. Faiz (University of Tehran, Iran)

E. Gevorkyan (Cermet-Ukraine Ltd., Kharkov, Ukraine)

W. Goldacker (Karlsruhe Institute of Technology, Germany)

A. Grabchenko (NTU "Kharkov Polytechnic Institute", Ukraine)

B. Guo (Beijing Institute of Technology, P.R. China)

F. Hânțîlă (Politehnica University of Bucharest, Romania)

T. Habisreuther (Leibnitz Institute for Photonic Technology, Germany)

T. Higuchi (University of Tokyo, Japan)

K. Hirata (Osaka University, Japan)

K. Hokamoto (Kumamoto University, Japan)

E. Hristoforou (National Technical University of Athens, Greece)

H. Igarashi (Hokkaido University, Japan)

M. Ioannidis (PC-NAE, NCSR "Demokritos", Greece)

T. Ishikawa (Gunma University, Japan)

M. Iwamatsu (Railway Technical Research Institute, Japan)

N. Kantartzis (Aristotle University of Thessaloniki, Greece)

Y. Kawase (Gifu University, Japan)

M. Khalvashi (Batumi Shota Rustaveli State University, Batumi, Georgia)

M. Khan (Kohat University of Science and Technology, Pakistan)

H. Khawaja (Arctic Univesrity, Norway)

V. Kirko (Research Institute of Physics and Engineering, Russia)

J. Kundrak (University of Miskolc, Hungary)

V. Lazarov (Technical University of Sofia, Bulgaria)

O. Lysenko (Bakul Institute for Superhard Materials, Ukraine)

T. Masuzawa (Ibaraki University, Japan)

T. Mizuno (Shinshu University, Japan)

M. Moatamedi (University of Manchester, UK)

S. Mukhopadhyay (Macquarie University, Australia)

H. Ohsaki (University of Tokyo, Japan)

S. Ovchinnikov (Kirensky Institute of Physics, Russia)

C. Papaspyrides (National Technical University of Athens, Greece)

T. Prikhna (Bakul Institute for Superhard Materials, Ukraine)

B. Ràcz (Bay Zoltán Nonprofit Ltd., Hungary)

K. Raghukandan (Annamalai University, India)

T. Rahulan (University of Salford, UK)

B. Raveau (University of Caen, France)

K. Salama (University of Houston, USA)

A. Shelkovoy (NTU "Kharkov Polytechnic Institute", Ukraine)

Y. Shen (University of Nevada, Reno, USA)

S. Sheykin (Bakul Institute for Superhard Materials, Ukraine)

S. Sidorenko (Igor Sikorsky Kyiv Polytechnic Institute, Ukraine)

V. Sokolovsky (Ben-Gurion University of the Negev, Beer-Sheva, Israel)

K. Spentzas (Euro-Mediterranean Academy, Greece)

S. Sudo (Akita Prefectural University, Japan)

T. Sugiura (Keio University Japan)

A. Száláy (S-Metalltech Ltd, Hungary)

A. Taşdemirci (Izmir Institute of Technology, Turkey)

N. Thadhani (Georgia Institute of Technology, USA)

R. Tomoshige (Sojo University, Japan)

L. Tovazhnyansky (NTU "Kharkov Polytechnic Institute", Ukraine)

R. Turmanidze (Georgian Technical University, Georgia)

Ç. Vakıfahmetoglu (Izmir Institute of Technology, Turkey)

I. Yatchev (Technical University of Sofia, Bulgaria)

Q. Zhou (Beijing Institute of Technology, P.R. China)

X. Zhu (University of Nevada, Reno, USA)

TECHNICAL PROGRAM COMMITTEE

Chairman

T. Sawada (Keio University, Japan)

Members

A. Kladas (National Technical University of Athens, Greece)

E. Hristoforou (National Technical University of Athens, Greece)

P. Kervalishvili (Georgian Technical University, Georgia)

R. Turmanidze (Georgian Technical University, Georgia)

K. Spentzas (Euro-Mediterranean Academy, Greece)

LOCAL ORGANIZING COMMITTEE

Chairman

N. Gomidze (Batumi Shota Rustaveli State University, Batumi, Georgia)

Members

T. Siradze (Batumi Shota Rustaveli State University, Batumi, Georgia)

N. Tsiklashvili (Batumi Shota Rustaveli State University, Batumi, Georgia)

Z. Sikharulidze (Batumi Shota Rustaveli State University, Batumi, Georgia)

M. Metreveli (Batumi Shota Rustaveli State University, Batumi, Georgia)

L. Turmanidze (Batumi Shota Rustaveli State University, Batumi, Georgia)

M. Giorgadze (Batumi Shota Rustaveli State University, Batumi, Georgia)