

First Announcement and Call for Papers

The 5th International Symposium on
**Advanced Science and Technology
in Experimental Mechanics (5th ISEM '10-Kyoto)**

November 4-7, 2010

Ryukoku University, Omiya Campus, Kyoto, Japan

<http://jsem.jp/ISEM5/>



Rokuonji Temple (Kinkakuji)



Organized by:

The Japanese Society for Experimental Mechanics

Supporting Organizations:

The Society for Experimental Mechanics, Inc (USA)

The British Society for Strain Measurement (UK)

The Japan Society of Mechanical Engineers (Japan)

The Japanese Society for Multiphase Flow (Japan)

The Visualization Society of Japan (Japan)

Heat Transfer Society of Japan (Japan)

The Iron and Steel Institute of Japan (Japan)

The Japan Institute of Metals (Japan)

The Japanese Society for Non-destructive Inspection (Japan)

The Japan Society for Design Engineering (Japan)

The Japanese Society for Medical and Biological Engineering (Japan)

The Japanese Society for Clinical Biomechanics (Japan)

Scope and Topics

■ Background and Aims

The Japanese Society for Experimental Mechanics (JSEM) was founded in 2001 by reorganizing the former *Japan Society for Photoelasticity* to extend its covering area of Experimental Mechanics not only to Solid Mechanics but also to various areas of Applied Mechanics such as Fluid Mechanics, Thermal Engineering, Medical Engineering, Biomechanics, Construction and Civil Engineering and so on. The first Symposium was successfully held in Sapporo, Japan (2006) to attain its main purpose of the new establishment. The Symposium was subsequently held in Osaka, Japan (2007), Tainan, Taiwan (2008) and Niigata, Japan (2009).

The present Symposium aims to promote an exchange of recent and advanced information among scientists and engineers in the wide field of Experimental Mechanics with special focus on Environmental, Medical and Welfare Engineering. The Symposium is also aimed particularly at promoting communication and collaboration between fundamental researchers and those engaged in the development of practical technology in respective areas of Experimental Mechanics. This Symposium title was updated to *The International Symposium on Advanced Science and Technology in Experimental Mechanics*, because the areas covered in the Symposium have been expanded as mentioned above.

■ Topics of Interest

We welcome papers in the following areas:

- (I) Fundamentals
 - (1) Fluid Dynamics
 - (2) Multiphase Flow
 - (3) Thermodynamics
 - (4) Heat and Mass Transfer
 - (5) Solid Mechanics / Strength of Materials
 - (6) Materials Science and Engineering
 - (7) Bioengineering
 - (8) Civil Engineering
 - (9) Sound and Vibration
 - (10) Instrumentation and Testing
 - (11) Visualization and Image Processing, and others

- (II) Applications
 - (1) Fluid Machinery
 - (2) Fluid Flow in Micro- and Nano-scales
 - (3) Environmental Science and Engineering
 - (4) Advanced Energy and Power Systems
 - (5) Combustion Technology
 - (6) Medical and Welfare Engineering
 - (7) Biomechanics and Biomaterials
 - (8) Materials Processing
 - (9) Materials Testing and Fracture Mechanics Evaluation
 - (10) Non-destructive Testing and Inspection
 - (11) Optical Methods, Thermal Methods and X-ray Techniques

- (12) Transducer and Sensor Design
- (13) Safety Engineering, Risk Analysis and Reliability Methods
- (14) Smart Materials and Structural Health Monitoring
- (15) MEMS and NEMS
- (16) Recycling
- (17) Electronic Packaging,
- (18) Prosthetics, and others

■ Technical Exhibition

The Symposium will make plans to exhibit current technologies for instrumentation, diagnosis and products developed by companies, corporations and universities. In addition, it will make plans to provide technical school and college students with an opportunity to present scientific and technological results in poster forms.

Committees

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■ **Venue**

The Symposium will take place at Ryukoku University, Omiya Campus (see pictures below), located adjacent to well-known Nishi Hongwanji Temple (a World Heritage Site), or at a 15-minute walk distance from JR Kyoto Station.

Main Gate to Ryukoku University, Omiya Campus

South Hall (left) and Main Hall (right)

■ **ISEM Steering Board**

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The 5th International Symposium on
Advanced Science and Technology
in Experimental Mechanics

Name: _____ (First) _____ (Middle) _____ (Last)

Industrial Academic/Government

Student Accompanying person

Affiliation: _____

Mailing Address: _____

E-mail: _____

Phone: _____

Fax: _____

I am interested in attending the Symposium and would like to
receive further information when available.

I am interested in submitting an abstract with tentative title
as: _____

Date: _____ Signature: _____

■ Registration

Registration by all participants, including invited speakers is mandatory. Please complete the registration form, following the instructions given below.

Registration Fee

Regular Fee: ¥40,000 (before **September 20, 2010**), ¥50,000 (after **September 21, 2010**)

Accompanying Person Fee: ¥10,000 (covers reception, banquet, and excursion)

Student Fee: ¥10,000 (before **September 20, 2010**), ¥15,000 (after **September 21, 2010**)

The regular fee covers Symposium attendance, a volume of program and abstracts, a piece of CD-ROM proceedings, reception, banquet, excursion and refreshments during coffee breaks. Note that the student fee does not cover either banquet or excursion.

■ Paper Submission, Selection, and Publication

Abstracts of 300-500 words in English should be submitted online at the Symposium website (template available): <http://jsem.jp/ISEM5/submission.html>. The abstracts should contain the following:

- (1) Title of paper.
- (2) Five keywords to describe and categorize the work.
- (3) Name, affiliation, address, e-mail address, telephone number and fax number of the author to whom subsequent correspondence should be directed.
- (4) Names and affiliations of co-authors, if any.
- (5) Background, objective, method, main findings and results.

The abstracts will be used for preliminary screening and planning for the sessions. Accepted abstracts should be submitted in the form of full-length manuscripts for review. Final acceptance will be based on review of the manuscripts. A bound volume of the abstracts and a piece of CD-ROM proceedings of the full-length papers will be available at the Symposium. Authors are invited to submit their papers for publication of a volume of selected papers or a Special Issue of Journal of the Japanese Society for Experimental Mechanics named as “Jikken Rikigaku”. These submitted papers will be subject to the normal review process of the Journal.

Deadlines

Abstract submission: **May 10, 2010**

Notification of abstract acceptance: **May 20, 2010**

Full-length manuscript submission: **August 1, 2010**

Notification of full-length manuscript acceptance: **August 31, 2010**

Final manuscript due: **September 20, 2010**

■ For Further Information Contact

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For further information please visit: <http://jsem.jp/ISEM5/>