

**First Announcement and Call for Papers**

*The 4th International Symposium on*  
**Advanced Fluid/Solid Science  
and Technology  
in Experimental Mechanics  
4th ISEM '09-NIIGATA**

**November 28-30, 2009**

at the

**Toki Messe, Niigata, Japan**

**<http://jsem.jp/ISEM4/>**



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 Visualization Society of Japan (Japan)*

*The Iron and Steel Institute of Japan (Japan)*

*The Japanese Society for Multiphase Flow (Japan)*

*The Japan Institute of Metals (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 with focus on Strength of Materials but also to various areas of Applied Mechanics such as Fluid Mechanics, Thermal Engineering, Medical Engineering, Biomechanics, Construction and Civil Engineering and so on. In addition, this new international symposium was organized in order to develop the activity of JSEM in 2005.

The Symposium aims to promote an exchange of recent and advanced information among scientists and engineers in the wide area of Experimental Mechanics. 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.

The first Symposium was held in Sapporo in 2006 to attain its main purpose of the new establishment. The 2nd Symposium was successfully held in Osaka in 2007. The 3rd Symposium will be held in Tainan in 2008. In addition, two special issues of Journal of JSEM for selected papers in 1st and 2nd Symposiums have been published in 2007 and 2008, respectively.

### ■Topics

Contributed papers are welcome in the following areas:

- (I) Fundamentals
  - (1) Fluid Engineering
  - (2) Multiphase Flow
  - (3) Heat and Mass Transfer
  - (4) Fluid Instrumentation
  - (5) Flow Visualization and Image Processing
  - (6) Transport Phenomena on Material Processing
  - (7) Materials Testing and Evaluation
  - (8) Non-destructive Testing and Inspection
  - (9) Optical Methods and Image Processing Techniques in Solid Mechanics
  - (10) Thermal Methods and X-ray Techniques, and others
- (II) Applications
  - (1) Fluid Machinery
  - (2) Fluid Flow in Micro and Nano-scales
  - (3) Biomechanics and Clinical Engineering
  - (4) Biological Systems and Materials
  - (5) Hostile Environment Applications
  - (6) Industrial Applications (Automotive, Railway, Energy Plants, etc.)
  - (7) Transducer and Sensor Design
  - (8) Smart Materials and Structural Health Monitoring
  - (9) MEMS and Nanotechnology
  - (10) Electronic Packaging and others

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### ■Venue

The Symposium will be held at the Niigata Convention Center ("Toki Messe"), located near the Bandai Bridge; a 20 minute walk, or 10 minute bus-ride from Niigata Station. Niigata City is a 2-hour train-riding from Tokyo, via the Joetsu Shinkansen Super-express. More information regarding the venue for the meeting can be accessed at: <http://www.tokimesse.com/english/>.

*The 4th International Symposium on*  
**Advanced Fluid/Solid Science  
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Name: \_\_\_\_\_ (First) \_\_\_\_\_ (Last)

Industrial       Academic/Government

Student       Accompanying guest

Affiliation: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

I will attend the Symposium and look forward to  
receiving further information.

I will submit an abstract with tentative title

as: \_\_\_\_\_

\_\_\_\_\_

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

### ■Registration

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

### Registration Fee

Regular Fee: ¥40,000 (before August 31, 2009)

¥45,000 (after September 1, 2009)

Student Fee: ¥15,000

The fee covers Symposium attendance, a volume of program and abstracts, a piece of CD-ROM proceedings, reception and refreshments during coffee breaks. A banquet is included in the regular fee, but not in the student fee.

### ■Paper Submission, Selection, and Publication

Abstracts of 300-500 words in English should be submitted online on the Symposium website (template available): <http://jsem.jp/ISEM4/>. The abstracts should contain the following:

- (1) Title of paper.
- (2) Five keywords to describe and categorize the work.
- (3) Name, affiliation, address, telephone number, fax number and e-mail address 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 in technical journals. The arrangements will be made for the publication of selected papers in a special issue of Journal of the Japanese Society for Experimental Mechanics “Jikken Rikigaku” or in two international journals of “Experimental Mechanics” and “Strain” and a fluid related journal. These papers will be subject to the normal review process of the journals.

### Deadlines

Abstract submission: **May 31, 2009**

Notification of abstract acceptance: June 30, 2009

Full-length manuscript submission: **July 31, 2009**

Notification of final paper acceptance: August 31, 2009

Final manuscript due: **September 30, 2009**

### ■For Further Information Contact

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