

Advisory Board

Gary Lucas, Huddersfield University (UK)
Mark Tuttle, University of Washington (USA)
Robert Mines, University of Liverpool (UK)
Yoshiharu Morimoto, Professor Emeritus of Wakayama University/4D Sensor Inc. (Japan)
Vasily Fomin, Institute of Theoretical and Applied Mechanics, Siberian Branch of Russian Academy of Sciences (Russia)

Local Organizing (Executive) Committee

Chairperson

Masayuki Nakada, Kanazawa Institute of Technology (Japan)

Members

Michio Uneda, Kanazawa Institute of Technology (Japan)
Motoharu Fujigaki, University of Fukui (Japan)
Mototsugu Tanaka, Kanazawa Institute of Technology (Japan)
Hiroshi Saito, Kanazawa Institute of Technology (Japan)
Masahiro Higuchi, Kanazawa University (Japan)

Venue

The Symposium will take place at The Kanazawa Theatre "Kanazawa Kagekiza" in Kanazawa City, Japan, which is located on the center of Kanazawa City. It takes about 20 minutes by bus from Kanazawa Station to "Kanazawa Kagekiza". Further information regarding the venue for the meeting can be accessed at: <http://www.kagekiza.gr.jp/>.

ISEM Steering Board

Goichi Matsui, Professor Emeritus of University of Tsukuba (Japan)
Takashi Yokoyama, Okayama University of Science (Japan)
Manabu Iguchi, Osaka Electro-Communication University (Japan)
Seiichi Sudo, Akita Prefectural University (Japan)
Satoru Okamoto, Shimane University (Japan)
Yuji Tanabe, Niigata University (Japan)

Registration

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

Registration Fee

Regular Fee: ¥40,000 (before September 22, 2017),
¥50,000 (after September 23, 2017)
Student Fee: ¥10,000 (before September 22, 2017),
¥15,000 (after September 23, 2017)

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, but registered accompany persons will be invited to Symposium events.

Paper Submission, Selection, and Publication

Abstracts of 300-500 words in English should be submitted online at the Symposium website. 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 to *Advanced Experimental Mechanics* published by the Japanese Society for Experimental Mechanics. For more detailed information, please visit the JSEM Website (<http://www.jsem.jp/journal/aem>).

Deadlines

Abstract submission: May 12, 2017
Notification of abstract acceptance: May 26, 2017
Full-length manuscript submission: July 14, 2017
Notification of full-length manuscript acceptance: August 30, 2017
Final manuscript due: September 22, 2017

For Further Information Contact

Professor Masayuki Nakada
E-mail: nakada@neptune.kanazawa-it.ac.jp
Phone: +81-76-274-9255 Fax: +81-76-274-9251
Address: Materials System Research Laboratory, Kanazawa Institute of Technology, 3-1 Yatsukaho, Hakusan, 924-0838, Japan
For further information please visit: <http://jsem.jp/ISEM12/>

First Announcement and Call for Paper

The 12th International Symposium on Advanced Science and Technology in Experimental Mechanics 12th ISEM'17-Kanazawa



Photo courtesy of Kanazawa-city



Organized by:

The Japanese Society for Experimental Mechanics

Supporting Organizations:

Asian Society of Experimental Mechanics
The Society for Experimental Mechanics, Inc (USA)
The British Society for Strain Measurement (UK)
The Japan Society of Mechanical Engineers
The Japanese Society for Multiphase Flow
The Visualization Society of Japan
Heat Transfer Society of Japan
The Iron and Steel Institute of Japan
The Japan Institute of Metals and Materials
The Japanese Society for Non-destructive Inspection
The Japan Society for Design Engineering
The Japanese Society for Medical and Biological Engineering
The Japanese Society for Clinical Biomechanics
The Japanese Society for Terramechanics (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), Niigata, Japan (2009), Kyoto, Japan (2010), Sendai/Kansai, Japan (2011), Taipei, Taiwan (2012), Sendai, Japan (2013), New Delhi, India (2014), Matsue, Japan (2015) and Ho Chi Minh, Vietnam (2016).

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 since the 5th ISEM'10-Kyoto, because the areas covered in the Symposium have been expanded as mentioned above.

Topics

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) Material 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) Material 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

Special Poster Session

The special session on poster presentations by students of High Schools and Colleges of Technology will be organized on November 3rd at 12th ISEM'17-Kanazawa, Japan.

Committees

Organizing Committee

Chairperson

Masayuki Nakada, Kanazawa Institute of Technology (Japan)

Members

Akira Kato, Chubu University (Japan)

Charles W. Knisely, Bucknell University (USA)

Chyan-Bin Hwu, National Cheng Kung University (Taiwan)

Chien-Chi Ma, National Taiwan University (Taiwan)

Eisaku Umezaki, Nippon Institute of Technology (Japan)

Goichi Matsui, Professor Emeritus of University of Tsukuba (Japan)

Hiroshi Takahashi, Tohoku University (Japan)

Jiun-Jih Miao, National Cheng Kung University (Taiwan)

Kazuo Arakawa, Kyushu University (Japan)

Koji Mori, Osaka Electro-Communication University (Japan)

Makoto Sakamoto, Niigata University (Japan)

Manabu Iguchi, Osaka Electro-Communication University (Japan)

Nguyen Minh Tam, Ho Chi Minh University of Technology (Vietnam)

Ruey-Jen Yang, National Cheng Kung University (Taiwan)

Satoru Okamoto, Shimane University (Japan)

Takashi Yokoyama, Okayama University of Science (Japan)

Vadim Lebiga, Institute of Theoretical and Applied Mechanics,

Siberian Branch of Russian Academy of Sciences (Russia)

Wei-Chung Wang, National Tsing Hua University (Taiwan)

Technical Exhibition

The Symposium will make plans to exhibit current technologies for instrumentation, diagnosis and products developed by companies, corporations and universities.

Scientific Committee

Chairperson

Satoru Okamoto, Shimane University (Japan)

Vice-Chairperson

Ichiro Shimizu, Okayama University of Science (Japan)

Members

Ei Yamamoto, Kinki University (Japan)

Fong-Chin Su, National Cheng Kung University (Taiwan)

Hideaki Endo, Tohoku University (Japan)

Hideaki Monji, University of Tsukuba (Japan)

Hideki Ono, Osaka University (Japan)

Keh-Chin Chang, National Cheng Kung University (Taiwan)

Kenji Kato, Osaka City University (Japan)

Kensuke Kageyama, Saitama University (Japan)

Kiyomi Mori, Takushoku University (Japan)

Koichi Kobayashi, Niigata University (Japan)

Masayoshi Kikuchi, Tohoku University (Japan)

Masayuki Nakada, Kanazawa Institute of Technology (Japan)

Mirei Chiba, Tohoku University (Japan)

Motoharu Fujigaki, University of Fukui (Japan)

Ryoji Tsujino, Setsunan University (Japan)

Satoshi Kakunai, University of Hyogo (Japan)

Satoru Yoneyama, Aoyama Gakuin University (Japan)

Seiichi Sudo, Akita Prefectural University (Japan)

Shinichi Suzuki, Toyohashi University of Technology (Japan)

Takenobu Sakai, Saitama University (Japan)

Tadaharu Adachi, Toyohashi University of Technology (Japan)

Toru Sawai, Kinki University (Japan)

Yuichi Ono, Tottori University (Japan)

Yuji Tanabe, Niigata University (Japan)