

The background of the entire page is a photograph of the Qutub Minar in New Delhi, India. The tower is a tall, cylindrical structure made of red and white stone, with intricate carvings and a spiral pattern. It stands against a clear blue sky. In the foreground, there are some ruins of other buildings, including a dark, cylindrical stone pillar on the left.

# 9TH INTERNATIONAL SYMPOSIUM ON ADVANCED SCIENCE AND TECHNOLOGY IN EXPERIMENTAL MECHANICS

(9th ISEM '14-New Delhi)

NOVEMBER 1-6, 2014



**Organized by:**

The Japanese Society for Experimental Mechanics (JSEM)

**Supporting Organizations** (tentative):

Asian Society of Experimental Mechanics (ASEM)  
The British Society for Strain Measurement (BSSM)  
Central Building Research Institute (CBRI)  
Central Road Research Institute (CRRI)  
Heat Transfer Society of Japan (HTSJ)  
Indian Association of Structural Engineers (IAStructE)  
Indian Concrete Institute (ICI)  
Indian Institute of Technology (IIT)  
The Iron and Steel Institute of Japan (ISIJ)  
The Japan Institute of Metals and Materials (JIM)  
The Japan Society for Design Engineering (JSDE)  
The Japanese Society for Clinical Biomechanics  
The Japanese Society for Medical and Biological Engineering  
The Japanese Society for Multiphase Flow (JSMF)  
The Japanese Society for Non-destructive Inspection (JSNDI)  
The Japanese Society for Terramechanics (JST)  
The Japan Society of Mechanical Engineers (JSME)  
The Society for Experimental Mechanics, Inc. (SEM)  
The Visualization Society of Japan

# Welcome!

**The 9th International Symposium on Advanced Science and Technology in Experimental Mechanics (9th ISEM '14- New Delhi) will be held at New Delhi, Capital of India during November 1-4, 2014.**

## Venue

The Symposium will take place at Hotel Jaypee Siddharth, New Delhi, which is Located in the heart of city. It takes about 30 minutes by car from Indira Gandhi International Air-port. It is near the metro station "Rajendra Place" (200 m).

## 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), Kansai, Japan (2011) and Taipei, Taiwan (2012), Sendai, Japan (2013).

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 has been updated to The International Symposium on Advanced Science and Technology in Experimental Mechanics from the previous symposium, because the areas covered in the Symposium have been expanded as mentioned below.

## 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
- (6) Materials Science and Engineering
- (7) Bioengineering
- (8) Civil Engineering
- (9) Sound and Vibration
- (10) Instrumentation and Testing
- (11) Visualization and Image Processing
- (12) Scale Modeling, 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) Transducers 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, and others

## Technical Conference Tour

The Symposium will make a plan of an exiting two-day technical conference tour on November 5 and 6 to deepen friendship between participants and to know the ancient architecture. In this tour, we will visit Taj Mahal in Agra and several interesting places around Agra. Taj Mahal is one of world heritage sites.

## Key dates

- Abstract submission: May 10, 2014  
Notification of abstract acceptance: May 31, 2014  
Full-length manuscript submission: July 10, 2014  
Notification of full-length manuscript acceptance: August 30, 2014  
Final manuscript due: September 24, 2014

## Registration Fee

Regular fee before Sep. 10 is 400 USD and after Sep. 11 is 500 USD. Student fee before Sep. 10 is 100 USD and after Sep. 11 is 150 USD.

## Publication of Special Issue of Journal of the Japanese Society for Experimental Mechanics after this 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.

## Chairperson / Contacting E-mail Addresses

Chairperson: Dulal GOLDAR, Former Principal, Delhi College of Engineering (India) [dulalgoldar@yahoo.co.in](mailto:dulalgoldar@yahoo.co.in)  
Co-chairperson & Secretariat: Motoharu FUJIGAKI, Wakayama University (Japan) [isem9@jsem.jp](mailto:isem9@jsem.jp) (Available in Japanese)



Taj Mahal - Agra



Lotus Temple - New Delhi