

## Foreword

The aim of this conference is to exchange information on multiaxial fatigue and fracture research as well as the application of this research to industrial practice. Despite increased efforts in understanding of multiaxial fatigue and fracture behavior, failure assessment procedures are becoming more complex and this forum is a good opportunity for experimentalists, theoreticians, industrial practitioners and academic experts to discuss current progress.

Selected papers presented at ICMFF10 will be published after the Conference:

- **International Journal of Fatigue**  
Special Issue on Multiaxial Fatigue and Fracture
- **Engineering Fracture Mechanics**  
Special Issue on Multiaxial Fracture and Fracture

## Main Topics of the Conference

Both engineers from industrial laboratories and research scientists are invited to contribute presentations on any of the following topics:

### 1. Loading

Constant amplitude (LCF, MCF, HCF); Variable amplitude and damage accumulation; Gigacycle fatigue; Thermal fatigue and creep; Contact fatigue; Proportional and non-proportional loading

### 2. Fracture Mechanics

Initiation and short crack growth; Mixed mode behavior; Multiaxial fracture

### 3. Materials

Metallic; Non-metallic; Defects and inhomogeneities; Constitutive modeling; Damage mechanics

### 4. Testing and Applications

Design (notches and stress concentrations); Joined structures; Residual stresses; Case studies; Virtual simulation; Experimental verification

## Conference Chairmen

Andrea Carpinteri, *Parma Italy*  
Masao Sakane, *Kusatsu Japan*  
Shan-Tung Tu, *Shanghai China*

## Submission of Papers

You are kindly requested to submit an abstract (**one A4 page maximum, only in PDF format, size lower than 1 Mb**) to Conference Secretariat by **15 July, 2012**.

The abstract should contain:

- Title of the paper
- Authors (full address of the company, Fax number, e-mail, personal titles of the corresponding author and the co-authors)
- Statement of contents and main points

The Scientific Committee will decide whether to accept the abstract. It should clearly emphasize the principal scientific, technical, economic or practical aspects of the intended paper.

Conference Language: English

## Key Dates

- Abstracts  
*15 July, 2012*  
*(Extended)*
- Abstract acceptance  
*31 August, 2012*
- Camera-ready papers and Extend abstracts  
*31 December, 2012*



## Local Organizing Committee

Nobuhiro Isobe, *Hitachi Japan*  
Takamoto Itoh, *Fukui Japan*  
Shengde Zhang, *Yokosuka Japan*  
Takaei Yamamoto, *Oita Japan*

## Scientific Committee

S. Beretta, *Milan Italy*  
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C. M. Sonsino, *Darmstadt Germany*  
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S. Stefanov, *Sofia Bulgaria*  
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K. Tanaka, *Nagoya Japan*  
M. Vormwald, *Darmstadt Germany*  
J.R. Yates, *Manchester UK*  
H. Zenner, *Dresden Germany*

## Registration Fee

	Until 20 <sup>th</sup> March, 2013	After 21 <sup>th</sup> March, 2013
Participant	¥70,000	¥80,000
Student	¥50,000	¥60,000
Accompanying person	¥30,000	¥30,000

## Conference Venue

Kyoto was the capital of Japan for over 1000 years and is a designated World Cultural Heritage site.

- Most Famous Historic City in Japan
- Capital in Japan for 1000 years until 1868
- University City
- Old City and Innovative City Creating Venture Companies
  - Nintendo, Kyocera, Rohm, Omron, Shimadzu, Sagawa, Nihon-Densen, etc.
- Many Spots for Sight Seeing

## Remarks

13<sup>th</sup> International Conference on Fracture (ICMF13) will be held in June 16-21, 2013 in Beijing, China. You may consider attending both ICMF13 and ICMFF10 since the distance between Beijing and Osaka (the nearest airport from Kyoto) is 1,800 km which takes only 3 hours by air.

## Conference Secretariat

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## Sponsorship

Sponsorship is invited to support this event. Industries and institutions interested in presenting their products, processes and achievements relating to the subject and in offering personal consultancy will have the opportunity in the exhibition at the conference.

Please contact: Conference Secretariat



Ritsumeikan University



University of Parma



The Society of Materials Science, Japan



European Structural Integrity Society



ASTM International Standards Worldwide



German Association for Materials Research and Testing



French Society for Metallurgy and Materials



Italian Group of Fracture



Suzaku Campus, Ritsumeikan University

Conference Announcement  
(2nd circular)

# ICMFF10

## The Tenth International Conference on Multiaxial Fatigue & Fracture

*Suzaku Campus,  
Ritsumeikan University,  
Kyoto, JAPAN*

3-6 June, 2013



<http://www.ritsumeikai.ac.jp/~sakanem/ICMFF10-Home.html>