

# 9<sup>th</sup> International Conference on Fracture and Damage Mechanics

## Nagasaki Japan, 20-22 September 2010

### Aim and Scope

The aim of the conference is to promote further international co-operation among Scientists and Engineers from different disciplines involved in the study of Fracture and Damage Mechanics. The overall objective is to produce an integrated approach to problems of Fracture Failure, Fatigue and Safe Design. The conference will discuss papers on any topics listed below and others related to the objectives of the meeting. The participants are encouraged to review critically existing ideas and to explore new research ideas.

### Conference Topics

Fracture Mechanics  
Fatigue  
Failure Analysis  
Corrosion  
Creep  
Non-linear Problems  
Dynamic Fracture  
Residual Stress  
Environmental Effects  
Crack Propagation  
Repair Technique  
Composite Materials  
Ceramics & Polymers  
Metallic Materials  
Concrete  
Probabilistic Aspects  
Risk Analysis  
Damage Tolerance  
Fracture Control  
Computational Methods  
Microstructural & Micromechanical Modelling

### Special sessions on:

- (1) Sustainable technology of structures including architecture and civil engineering field.
- (2) Diagnosis, Damage Evaluation, Rehabilitation, Repair, Strengthening, Durability Design technology of Structures.

### Steering Committee

M.H. Aliabadi Imperial College, London  
B. Abersek University of Maribor, Slovenia  
J. Alfaiate Instituto Superior Tecnico, Portugal  
F.G. Buchholz Univ. Paderborn, Germany  
J.K. Kim KAIST, Korea  
Guagliano, M. Politecnico di Milano, Italy  
S.-I. Nishida Saga University, Japan  
S.W. Shin Hanyang University, Korea  
Qingfen Li Harbin Engineering University, China

### Conference Chairmen

Professor Akihide Saimoto  
Mechanical Systems Engineering, Nagasaki Univ., Japan  
1-14 Bunkyo-machi, Nagasaki 8528521, Japan  
[s-aki@nagasaki-u.ac.jp](mailto:s-aki@nagasaki-u.ac.jp)  
Phone/Fax +81(0)95 819 2493  
Professor Ferri Aliabadi  
Department of Aeronautics, Imperial College, London  
Prince Consort Road, South Kensington, London, SW7 2BY  
[M.H.Aliabadi@imperial.ac.uk](mailto:M.H.Aliabadi@imperial.ac.uk)  
Fax: +44 (0) 2380 260334

### Conference Sponsors

Harbin Engineering University  
China and UK Forum for Engineering Structural Integrity (FESI)

### Deadlines

Abstracts: 31st January 2010  
Papers: 31st March 2010  
Registration: 31st March 2010

### International Scientific Committee

Abersek, B. University of Maribor, Slovenia  
Alfaiate, J. Instituto Superior Tecnico, Portugal  
Ashcroft, I. A. Loughborough University, UK  
Baragetti, S. Università degli Studi di Bergamo, Italy  
Cerny, I. SVUM, Czech Rep.  
Chen, D.-H. Science University of Tokyo, Japan  
Constantin, N. University Politehnica of Bucharest, Romania  
Dhondt, G. MTU Aero Engines, Germany  
Doblare, M. University of Zaragoza, Spain  
Ebara, R. Hiroshima Institute of Technology, Japan  
Flewwitt, P. E. J. BNFL Magnox Generation, UK  
Fujimoto, T. Kyushu Sangyo University, Japan  
Galvez, J. C. Universidad Politécnica de Madrid, Spain  
Guagliano, M. Politecnico di Milano, Italy  
Goto, M. Oita University, Japan  
Hadavinia, H. Kingston University, UK  
Hashida, T. Tohoku University, Japan  
Hornikova, J. Brno University of Technology, Czech Republic  
Horst, P. IFL, Braunschweig, Germany  
Ivankovic, A. University College Dublin, Ireland  
Jankowski, R. Gdansk University of Technology, Poland  
Kawagishi, N. Kagoshima University, Japan  
Kikuchi, M. Science University of Tokyo, Japan  
Kim, Jeong Guk (Korea Railroad Research Institute, Korea)  
Kishimoto, K. Tokyo Institute of Technology, Japan  
Kisu, H. Nagasaki University, Japan  
Kolednik, O. Austrian Academy of Sciences, Austria  
Korsunsky, A. M. Oxford University, UK  
Kotouli, M. Brno University of Technology, Czech Republic  
Kuna, M. Technische Universität Bergakademie Freiberg, Germany  
Lee, Jinyi (Chosun University, Korea)  
Li, Li Harbin Engineering University, China  
Li, Q. F. Harbin Engineering University, China  
Makabe, C. University of Ryukus, Japan  
Marsavina, L. Politehnica University of Timisoara, Romania  
Nobile, L. University of Bologna, Italy  
Pappalettere, C. Politecnico di Bari, Italy  
Pastor, J. ESIGEC, University of Savoie, France  
Piat, R. Universität Karlsruhe, Germany  
Providakis, C. Technical University of Crete, Greece  
Rezaeepazhand, J. Ferdowsi University of Mashhad, Iran  
Schlangen, E. Delft University of Technology, The Netherlands  
Sluys, L. J. Delft University, The Netherlands  
Soprano, A. Second University of Naples, Italy  
Susmel, L. University of Ferrara, Italy  
Takuda, H. Kyoto University, Japan  
Teranishi, T. Kyushu Sangyo University, Japan  
Theilig, H. Univ. Appl. Sci. Zittau/Görlitz, Germany  
Tohgo, K. Tokyo Institute of Technology, Japan  
Torii, T. Okayama University, Japan  
Toribio, J. University of Salamanca, Spain  
Watanabe, K. Yamagata University, Japan  
Wang, Z. Q. Harbin Engineering University, China  
Yan, S. Y. Harbin Engineering University, China  
Yoon, I. S. Induk Institute of Technology, South Korea  
Yufeng Zheng Harbin Engineering University, China  
Zhang, J.-Z. Harbin University of Science and Technology, China  
Zhu, S. F. Harbin Engineering University, China

### Conference Venue

Loisir Hotel Nagasaki  
URAKAIGANDORI Dentei-mae, 2-33, Oura-machi, Nagasaki-shi,  
Nagasaki 850-0918, Japan

Tel: +81(0)95-824-2211

Fax: +81(0)95-827-1819

visit conference website at

<http://fdm.engineeringconferences.net/>



Glover Garden



Peace Park



Spectacles Bridge



# Welcome to FDM2010 in Nagasaki

## ようこそ長崎へ

### Conference Venue



Please show taxi driver

ロワジールホテルまでお願いします  
大浦海岸通り電停前の正面です

(Please go to Loisir Hotel, which is front of  
the OURAKAIGANDORI streetcar stop)

**Loisir Hotel Nagasaki** (ロワジールホテル長崎,旧長崎ビューホテル)

OURAKAIGANDORI Dentei-mae, 2-33, Oura-machi, Nagasaki-shi, Nagasaki 850-0918

Tel: 095-824-2211 Fax: 095-827-1819

<http://www.solarehotels.com/english/loisir/hotel-nagasaki/guestroom/detail.html>

### Access From Nagasaki Airport

From Nagasaki Airport to Nagasaki city central, people prefer to use a hiway bus. The hiway bus from Nagasaki Airport is scheduled in accordance with the flight table. The fare is 800 JPY and it takes 40 minutes from Airport to city central. You may get off at Nagasaki JR station or Shinchi bus terminal stop. From Shinchi bus terminal to Loisir Hotel Nagasaki, it takes about 15 minutes by walk. Please look at information of Nagasaki Airport at

<http://www.nabac.co.jp/english/>

### Access From Nagasaki JR-station

The conference site locates in the Nagasaki citycentral. It takes 25 minutes by walk, 15 minutes by street car and within 10 minutes by taxi from Nagasaki JR (Japan Railway) station. People who brings heavy luggage should use taxi from JR station. It will cost approximately 700 JPY. People who wants to use street car from JR station, please change at Tsukimachi station and take off at Ourakaigandori station (just in front of the conference site). The fare for street car per one ride is fixed at 120 JPY irrespectively of the distance.

### Electricity

The voltage in Japan is 100 Volt, which is different from North America (110V), Central Europe (220V) and most other regions of the world. The electrical plugs have two, non-polarized pins.

### Currency

Japanese Yen (JPY)

Please exchange money at international airport as Loisir Hotel Nagasaki does not treat foreign currency.

### Temperature

In September, average temperature in Nagasaki is 30 degree in daytime and 22 degree at evening. Short pants and sunglasses would be useful.

### Holiday

20<sup>th</sup> and 23<sup>rd</sup> September are national holidays. Bank closes on holiday.

### Free Maps

<http://www.is.nagasaki-u.ac.jp/eng/magazines/lifeguide/engmapofnagasakicity.pdf>

[http://www.jnto.go.jp/eng/map/075\\_Nagasaki.html](http://www.jnto.go.jp/eng/map/075_Nagasaki.html)

### Conference Timetable

20<sup>th</sup> September

8:30- 9:30 registration (2<sup>nd</sup> floor)  
9:30-10:00 plenary keynote by Professor Masanori Kikuchi, Science University of Tokyo  
10:00-10:30 plenary keynote by Professor Ferri M.H. Aliabadi, Imperial College London  
11:00-17:10 general session  
12:50 lunch  
17:30 short tour to Dejima wharf (restaurants and shopping), only for applicants\*

21<sup>st</sup> September

9:00-17:10 general session  
12:50 lunch  
19:30-21:30 Conference Banquet (Mizubenomori Kouen Restaurant), only for applicants

22<sup>nd</sup> September

9:00-12:30 general session  
12:30 lunch  
13:30 farewell  
13:30 excursion, only for applicants\*

\*Plan for short tour and excursion are still uncertain

In general session, presentation is restricted to 20 minutes including discussion

Laptop and projector is prepared at each presentation room

Please prepare your file in PPT or PDF format

JR Nagasaki Station

Dejima wharf

Bank

China town

Loisir Hotel Nagasaki  
(2km from Nagasaki JR Station)

500m