

BENEFITS TO YOU

- ◆ Keep up-to-date on the latest advances in the field of fatigue of composites
- ◆ Present your work within a unique forum of researchers, scientists and engineers
- ◆ Interact with experts from all over the world
- ◆ Your conference paper will be reviewed by members of the Scientific Committee for publication in a special issue of the International Journal of Fatigue

LOCATION

Nanjing, one of the six ancient capitals of China, is also the administrative center of Jiangsu Province. Situated at the south bank of the lower reaches of the Yangtze River, Nanjing has a variety of historical and cultural heritage evident in its architecture like imperial mausoleums, old temples, traditional garden buildings, and museums. The Mausoleum of Dr. Sun Yat-sen, the great revolutionary forerunner, is a well-preserved tourist destination. Ming Xiaoling Mausoleum built for Zhu Yuan Zhang, the founder of the Ming Dynasty (1368~1644), is one of the largest ancient imperial tombs in China. The well-known Linggu Temple, built about 1,500 years ago and surrounded by aged but still flourishing trees, is claimed to be the best Buddhist temple in the world. Other scenic spots in Nanjing like Qinhuai River, Yu Hua Tai and Kitsya Scenic Spot are also well worth a trip if you want to trace back to the long history of Nanjing. The organizing committee would like to welcome all of you at Nanjing to meet your colleagues and wishes you a pleasant stay in Nanjing!



CONFERENCE VENUE

Nanjing University of Aeronautics and Astronautics (NUAA), established in October 1952, has gone through 3 major periods, evolving from a teaching-oriented university to a research-oriented university. As a national key university that focuses on science and engineering, NUAA enjoys an all-around and well-balanced development of multiple disciplines in applied science and technology, natural science, humanities and social sciences with the characteristics of aeronautics, astronautics and civil aviation. NUAA has shown great advantages in the research of basic science, the application of basic science and the development of high technology. It has made a lot of unprecedented breakthroughs in many key projects mainly concerning aeronautic and astronautic research and manufacturing, greatly prompting the technological development and innovations in these fields. Simultaneously, NUAA has also maintained close ties with many prestigious universities, research institutions and enterprises from all over the world. Several hundred renowned scholars and experts are invited to the university to give lectures and do joint research every year. The exchange and cooperation in various forms have greatly improved the academic levels.



IMPORTANT DEADLINES

- ◆ Detailed abstract submission: **30 December 2009**
- ◆ Abstract notification: **20 February 2010**
- ◆ Full manuscript submission: **30 June 2010**
- ◆ Author notification: **20 July 2010**

ICFC5

Fifth International Conference on Fatigue of Composites

16-19 October 2010, Nanjing, China

College of Aerospace Engineering
Nanjing University of Aeronautics and Astronautics
29 Yudao St., Nanjing 210016, China
Website: <http://www.nuaa.edu.cn>

Contact information:

Prof. W-X Yao
Tel: +86-25-84892177
Fax: +86-25-84892177
Email: wxyao@nuaa.edu.cn



THE CONFERENCE

The International Conference on Fatigue of Composites, started in 1997, has been held successfully for four times. Like the preceding conferences, the **Fifth International Conference on Fatigue of Composites (ICFC5)** to be held at NUAU in Nanjing, China, on 16-19 October 2010, is dedicated to bring together scientists, engineers, researchers and students to exchange and share their experiences, new ideas and research results about all aspects of composite fatigue, and discuss the challenges encountered and the solutions adopted. For more detailed information please refer to the ICFC5 web site aircraftdesign.nuaa.edu.cn/icfc5.html.



CONFERENCE CHAIRMEN

W-X Yao NUAU, Nanjing, P.R. China
J Renard Ecole de Mines de Paris, Paris, France
N Himmel IVW GmbH, Kaiserslautern, Germany

SCIENTIFIC COMMITTEE

TK O'Brien NASA, Langley, VA, USA
S Case VPISU, Blacksburg, VA, USA
Ph Castaing, CETIM, France
T Fujii Doshisha University, Kyoto, Japan
C Galiotis University of Patras, Greece
K Gamstedt Royal Institute of Tech., Sweden
M Hojo University of Kyoto, Japan
Y-W Mai Sydney, Australia
M Quaresimin University of Padova, Italy
K Reifsnider Univ. of Connecticut, Storrs, CT, USA
T Sabu Mahatma Gandhi University, Kerala, India
H J Shi Tsinghua University, China
G Sims National Physical Laboratory, London, UK
C. Soutis University of Sheffield, UK
A. Torres Marques University of Porto, Portugal
S-J Zhu Fukuoka Institute of Techn., Fukuoka, Japan

TOPICS OF INTEREST

Fatigue is defined as the effect of broad range loading (such as cyclic loads, aging effects, temperature, humidity, and so on) on the mechanical properties of a material. Composites are multiphase materials which consist of a combination of a polymer, metal, or ceramic matrix and one or multiple reinforcing components (such as fibers or particles).

◆ Fatigue damage

Fatigue damage initiation and evolution process, damage tolerance, non-destructive destructive methods of damage detection, damage quantification.

◆ Loading

Loading types (mechanical, thermal and humid, uni-/multiaxial), loading spectra.

◆ Assemblies

Materials (composites to composites, composites to metals), connects (bonded/bolted/riveted joints).

◆ Manufacturing and processing

Manufacturing and processing effects.

◆ Design and analysis

Analysis of composites subjected to fatigue loading, mechanical models, damage and fracture mechanics, design issues.

◆ Testing

Fatigue testing techniques, damage detection, testing equipments and sensors, data accumulation and fusion, testing standardization.

◆ Applications

Fatigue issues of composite applications in industry (transportation, civil engineering, aerospace, wind energy, machine building, and so on)

ABSTRACT SUBMISSION

Paper abstracts describing scientific and technical work on composite fatigue as outlined in the conference topics are invited. An extended abstract of 2~3 pages (A4, Times New Roman, 11 pt, pdf format) including Title, Author name(s), Affiliations(mail and email address), and a reference list should be submitted by **30 December 2009** to the address given below. It is proposed that the abstract state the subject, main ideas, results, and conclusions of the presented work clearly for preliminary evaluation. The electronic submission is strongly encouraged. To establish a forum for exchange and discussion to all conference participants it is intended to limit the number of papers to one per participant.

◆ Email submission

Email address: icfc5@nuaa.edu.cn

Please submit your abstract including the acronym ICFC5 in the subject line. Also provide your name, full address, and the appropriate conference topic.

◆ Web submission

aircraftdesign.nuaa.edu.cn/icfc5.html

◆ Mail submission

Xi Wei

Box No. 241, 29 Yudao St., Nanjing 210016, China

PUBLICATION POLICY

The authors will be notified on the acceptance of their abstracts by **20 February 2010**. Upon acceptance, an oral presentation at the conference is expected by (one of) the author(s). After peer-reviewing, the papers presented at the conference will be published in a special issue of the International Journal of Fatigue. To promptly start the reviewing process after the conference, full-length paper manuscripts are due by the end of the conference.

