

Aims and Scope of the Symposium

The 2018 International Symposium on Structural Integrity (ISSI2018) will be held at Nanjing, China, by Nanjing Tech University and Special Equipment Safety Supervision Inspection Institute of Jiangsu Province, during November 2-5, 2018. The predecessor of the annual symposium, Fracture Mechanics series, took place each year from 2003 to 2009, was renamed as Structural Integrity series after 2010, and organized by China Structural Integrity Consortium (CSIC).

Nowadays, the need of higher efficiency, less consumption of resources and reduced emission has led to higher operation parameters in process plants. Structural integrity for engineering components and structures working at extreme conditions has been a hot topic. In addition, structural integrity has come to a new era as a result of the design and manufacturing of structures and components with the requirement of long-life and high reliability service. The analysis, assessment, and life prediction are requiring better precision. All this underpins the theme of ISSI2018, "*Structural integrity theory and technology in the precision era*".

The new era requires improvements in understanding failure mechanisms, based on the needed evolution of ever-increasingly precise experimental results, accurate theoretical model descriptions and incorporation of this information into the rapidly progressing development of numerical/computer modelling of real material/structure behaviors with both high accuracy and precision. The new era also requires more robust techniques in manufacturing, structural integrity prognosis or structural health monitoring of engineering components in critical conditions or applications.

The aim of this symposium is hence to bring together people from both academic and industrial communities to exchange ideas and network friendship by discussing emerging structural integrity issues in the precision era, where papers towards are mostly welcome.

Organizers

China Structural Integrity Consortium,
including following members:
East China University of Science and Technology
Hefei General Machinery Research Institute
China Special Equipment Inspection and Research Institute
Special Equipment Safety Supervision Inspection Institute of Jiangsu Province
Nanjing Tech University
Zhejiang University
Zhejiang University of Technology
Zhengzhou University
Changsha University of Science and Technology
Southwest Jiaotong University
Shandong University
Beihang University
Tianjin University

Local organizers

Nanjing Tech University
Special Equipment Safety Supervision Inspection Institute of Jiangsu Province

Sponsors

National Natural Science Foundation of China
Chinese Materials Institution (Committee of High Temperature Strength of Materials)
Chinese Pressure Vessel Institution
Chinese Failure Analysis Institution

Venue

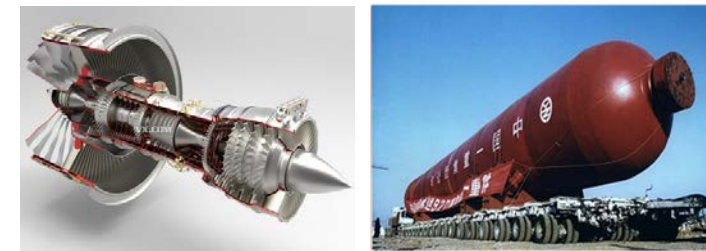


The symposium will be held at **Jinling Riverside Hotel**, located at No.8, Wanjingyuan Road, Yangtze River Street, Jian Ye, 210019 Nanjing, China.

2018

International Symposium on Structural Integrity

STRUCTURAL INTEGRITY
THEORY AND TECHNOLOGY IN THE
PRECISION ERA



Nanjing, China, November 2-5, 2018



International Scientific Committee

S. T. Tu (Chairman, ECUST, China)
 R. Ainsworth (Univ Manchester, UK)
 H. F. Chen (Univ Strathclyde, UK)
 X.D. Chen (HFGMRI, China)
 P.S. Dong (Univ Michigan, USA)
 T. Hassan (NCSU, USA)
 T. Itoh (Ritsmeikan Univ, Japan)
 Y.J. Kim (Korea Univ, Korea)
 Y.S Li (JAEA, Japan)
 K. Nikbin (Imperial College London, UK)
 A. Saxena (Univ Arkansas, USA)
 J.H. Shi (CGN, China)
 R. Sandstrom (KTH, Sweden)
 V. Shlyannikov (RAS, Kazan, Russia)
 Y. Takahashi (CRIEPI, Japan)
 K.B. Yoon (Chung-Ang Univ, Korea)

Local Organizing Committee

Jianming Gong (Chairman)

Jian Chen	Xu Chen
Zengliang Gao	Zhichao Fan
Shuqing Lin	Guozheng Kang
Zhengdong Wang	Minshan Liu
Sujun Wu	Weiqliang Wang
Yining Wang	Fuzhen Xuan
Duyi Ye	Youjun Ye
Jianping Zhao	

Symposium Secretariat

Jianping Zhao (jpszao@njtech.edu.cn)
 Luyang Geng (young@njtech.edu.cn)

Symposium Topics

- ◆ Materials modeling and testing
- ◆ Time-dependent failures
- ◆ Environment assisted fracture
- ◆ Failure in welded and jointed structures
- ◆ Fatigue and fracture under complex loads
- ◆ Non-destructive testing technology
- ◆ Design and assessment codes and standards
- ◆ Structural integrity assessment
- ◆ Reliability-based design and manufacturing
- ◆ Life prediction modeling
- ◆ Structural health and integrity monitoring

Topics not covered above but fall within the general scope of this symposium are also welcome. Abstracts and full papers should be written in English. Early submission of full papers is advisable in order to get the full benefit of editorial assistance and fast publication.

<http://issi2018.china-sic.net>

Key dates

Deadline for submission of abstract-----May 1, 2018
 Deadline for submission of final paper---July 1, 2018
 Notification of acceptance of final paper—Sept. 1, 2018
 Conference registration-----Nov. 2, 2018

Submission Information

The official language of the conference is English. Accepted papers will be included in the ISSI-2018 proceedings which will be published by *Key Engineering Materials (indexed by EI Compindex)* after the symposium.

Abstracts (less than 500 words) prepared according to the layout should be submitted to symposium website: <http://issi2018.china-sic.net>

Extended version of selected papers will be published in special issues of the following international journals after peer review:

International Journal of Pressure Vessels and Piping
Advances in Mechanical Engineering
Frontiers of Mechanical Engineering

Registration and Accommodation

Registration fee will be 360 USD. Students are welcome with a reduced registration fee of 270 USD. The registration fee covers admission to all technical sessions, two refreshment breaks each day of the conference, lunches, dinners, conference banquet, and a copy of the conference proceedings, but not accommodation. Accommodation needs to be pre-booked at the conference venue.

Symposium Coordinator

Dr. Mingliang Zhu
 School of Mechanical and Power Engineering
 East China University of Science and Technology
 Shanghai 200237, China
 Tel: +86 21 64253776; Fax: +86 21 64253513
 E-mail: mlzhu@ecust.edu.cn