

## Aims and Scope of the Symposium

The 2021 International Symposium on Structural Integrity (ISSI2021) will be held at Hangzhou, China, by Zhejiang University of Technology, during October 8-11, 2021. 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).

Carbon reduction has been closely bound up with the economy and social development. An increasing number of countries have issued their targets and roadmaps for carbon neutrality, which requires more efficient, energy-saving and reliable technology and equipment. The integrity of structures in the relevant industries, as a guarantee, plays an important role in the realization of carbon neutrality. All this underpins the theme of ISSI2021, “*Structural Integrity in the Context of Carbon Neutrality*”.

A higher demand for structural integrity is brought to meet the requirements for carbon neutrality, either for ageing management or for design of advanced energy systems. To support the realization of carbon neutrality, it is necessary to improve structural integrity theory and technology in terms of failure evaluation, life prediction, repair and remanufacturing, safety inspection and health monitoring.

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 related to carbon neutrality, where papers toward are mostly welcome.

## Key dates

Deadline for submission of abstract-----15 Aug 2021  
 Notification of acceptance of abstract-----1 Sept 2021  
 Deadline for pre-conference registration-----15 Sept 2021  
 Conference registration-----8 Oct 2021

## 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
  - Zhejiang University
  - Beihang University
  - Nanjing Tech University
  - Zhejiang University of Technology
  - Zhengzhou University
  - Southwest Jiaotong University
  - Shandong University
  - Changsha University of Science and Technology
  - Tianjin University
  - Jiangsu Province Special Equipment Supervision Institute
  - Suzhou Nuclear Power Research Institute Co., Ltd.
  - Centre of Excellence for Advanced Materials, Dongguan

## Local organizers

- Zhejiang University of Technology
- Hangzhou Special Equipment and Inspection Institute
- MOE Engineering Research Center of Process Equipment and Its Remanufacture
- Innovation Research Institute of Zhejiang University of Technology, Shengzhou

## 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

## Symposium Chairs

Prof. Shan-Tung Tu (Chairman of symposium series)  
 Prof. Zengliang Gao (Executive Chairman)

## Symposium Secretariat

Chuanyang Lv(cylv@zjut.edu.cn)  
 Wenjian Zheng(zwj0322@zjut.edu.cn)

## Symposium Coordinator

Jian-Feng Wen(jfwen@china-sic.net)



## International Symposium on Structural Integrity

STRUCTURAL INTEGRITY IN THE  
 CONTEXT OF CARBON NEUTRALITY



Hangzhou, China, October 8-11, 2021



浙江工业大学  
 ZHEJIANG UNIVERSITY OF TECHNOLOGY

<http://issi2021.china-sic.net>



## Scope and Topics

- Structural integrity and carbon reduction
- Advanced materials testing and modeling
- Genetics-based material design
- Fatigue and fracture under extreme conditions
- Time-dependent failure (creep, corrosion, etc.)
- Design and assessment codes and standards
- Reliability-centered design, manufacturing and maintenance
- NDT and evaluation
- Structure health and integrity monitoring
- Life management and extension
- Additive manufacturing
- Artificial intelligence and big data
- Fluid-structure interaction

## International workshop

- International workshop on battery safety and reliability

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://issi2021.china-sic.net>

## Symposium Coordinator

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## Call for Papers

The official language of the conference is English.

Abstracts (less than 500 words) prepared according to the layout should be submitted to symposium website: <http://issi2021.china-sic.net>

Extended version of selected papers will be published in special issues of international journals after the symposium.

## 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.

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