



Important Dates

Registration opening date: March 07, 2025

Registration closing date: March 10, 2025

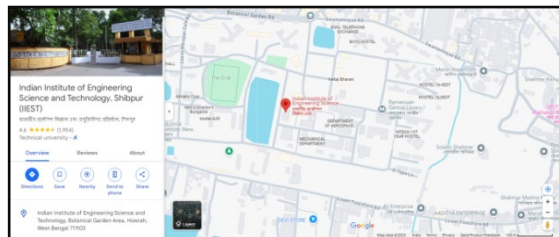
Symposium date: March 11, 2025



Program venue

Conference Hall, Mechanical Engineering Department (2nd Floor), Indian Institute of Engineering Science and Technology, Shibpur (IEST, Shibpur), Botanic Garden, Dist: Howrah, West Bengal, India.

<https://maps.app.goo.gl/H3RamWc8wUR1>



Host details



Dr. Niloy Khutia, Associate Professor, Department of Aerospace Engineering and Applied Mechanics. Dr. Rajib Chakraborty, Assistant Professor & Dr. Partha Pratim Dey, Professor, Department of Mechanical Engineering. IEST, Shibpur.

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About the Symposium

'International Symposium on Structural Integrity', organized by IEST Shibpur, aims to showcase recent research efforts across the globe by featuring lectures from distinguished academicians and researchers from India and Japan, including esteemed professors from Ritsumeikan University, Japan. This conference serves as a dynamic platform for knowledge exchange, fostering collaboration between experts in structural integrity, material fatigue, fracture mechanics, failure analysis, and non-destructive testing. Key topics include the creep-fatigue behavior of steels under non-proportional multiaxial loading, which is crucial for understanding material degradation in high-temperature environments, and the creep properties, which exhibit promising potential for applications requiring superior thermal stability and mechanical performance. By addressing challenges in infrastructure, aerospace, automotive, and energy sectors, the event plays a crucial role in advancing innovative solutions and enhancing the long-term reliability of engineering structures worldwide.



Target audience

Academicians, research scholars, UG, PG students, faculty members / professionals & industry personnel working in the concerned / allied discipline.

Participants need to do registration online by filling up the following google form:

<https://forms.gle/PccWAdp18S2q56336>

The maximum number of participants will be 100 (Fifty) on first-come-first-serve basis.

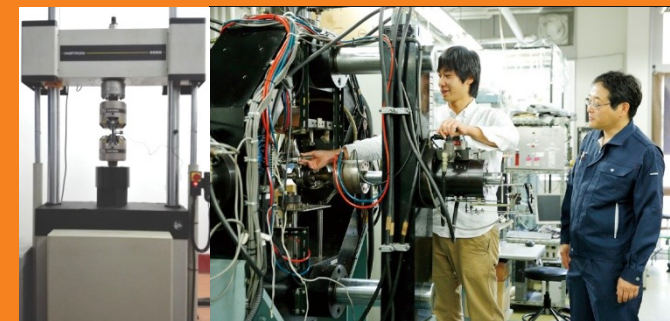
Participants can also join online through google meet:

meet.google.com/zhe-tmzq-uto



Registration Fee

There is NO REGISTRATION/ PROGRAM FEE for attending the Symposium



International Symposium on Structural Integrity

11th March, 2025

Indian Institute of Engineering Science and Technology, Shibpur



IEST, Shibpur
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Erstwhile B E College (Estd 1856)

A Symposium Jointly Organized by

Department of Mechanical Engineering

and

Department of Aerospace Engineering and Applied Mechanics

(In both offline and online mode)

Venue: Conference Hall, Mechanical Engineering Department (2nd Floor)



IEST, Shibpur, India



IEST, Shibpur (Erstwhile "Bengal Engineering College") is the first college to become Indian Institute of Engineering Science and Technology (IEST, Shibpur) in India in 2014. The Institute has a rich history. It is empowering the nation since 1856. Considering the year of establishment, it is the 3rd engineering college in India but considering the year of graduation it is the 2nd oldest engineering college in India. It has 16 departments and 8 schools. It has over 250 faculty members and a student strength of over 4000.



Ritsumeikan University, Japan



Ritsumeikan University (RU) is one of the top leading universities in Japan with a history of 120-years. As a global university, RU has a long tradition of welcoming students from across Japan and the world to our campuses. RU is home to more than 3,028 international students representing diverse cultures from 80 countries and regions. This diversity is also reflected in the faculty, academic programs, and exchanges.



Key resource persons



Prof. Takamoto Itoh

Professor, Department of Mechanical Engineering, College of Science and Engineering, Ritsumeikan University, Japan.



Dr. Soumitra Tarafder

Chief Scientist and Advisor Management at CSIR- National Metallurgical Laboratory, Jamshedpur, India



Prof. Debasis Datta

Professor, Mechanical Engineering Dept. and Dean, International Relations & Alumni Affairs, IEST, Shibpur, Howrah, West Bengal, India.



Prof. Ing. Radim Halama

Professor, Department of Applied Mechanics at the Faculty of Mechanical Engineering, VŠB - Technical University of Ostrava University, Czech Republic.



Organizing Team

Symposium Coordinators



Dr. Niloy Khutia, Associate Professor, Department of Aerospace Engineering and Applied Mechanics. IEST, Shibpur



Dr. Rajib Chakraborty, Assistant Professor, Department of Mechanical Engineering. IEST, Shibpur



Dr. Partha Pratim Dey, Professor, Department of Mechanical Engineering, IEST, Shibpur



Symposium Program Schedule

Time	Event
11:00 AM to 11:10AM	Welcome address by Head, Mechanical Engineering Dept., Prof. Subhas Chandra Mondal and Head, Aerospace Engineering and Applied Mechanics Dept., Prof. Nityananda Nandi
11:10 AM to 11:15 AM	Brief outline of the Symposium by Dr. Niloy Khutia
11:15 AM to 11:25 AM	Address by Dean (IRAA), Prof. Debasis Dutta
11:30 AM to 12:30 PM	Invited talk by Prof. Takamoto Itoh, on ' <i>Creep-fatigue behavior of steels under non-proportional multiaxial loading</i> '
12:30PM to 1:30 PM	Invited talk by Dr. Soumitra Tarafder on ' <i>Mechanics of damage evolution in engineering structural materials</i> '
1:30 PM to 3:00 PM	Lunch Break
3:00 PM to 4:00 PM	Invited talk in online mode by Prof. Ing. Radim Halama, on ' <i>Recent Trends in Measurement and Modeling of Plastic Strain Accumulation in Metals</i> '
4:00 PM to 4:30 PM	Talk by Mr. Gaurav Raj, Master's Student, Ritsumeikan University, Japan on ' <i>Fatigue Strength Analysis of AISI 304 under multiaxial non-proportional loading in high cycle region</i> '
4:30 PM to 5:15 PM	Invited talk by Prof. Debasis Datta, on ' <i>Application of NDT on Structural Integrity</i> '
5:15 PM to 5:25 PM	Vote of thanks and Valedictory