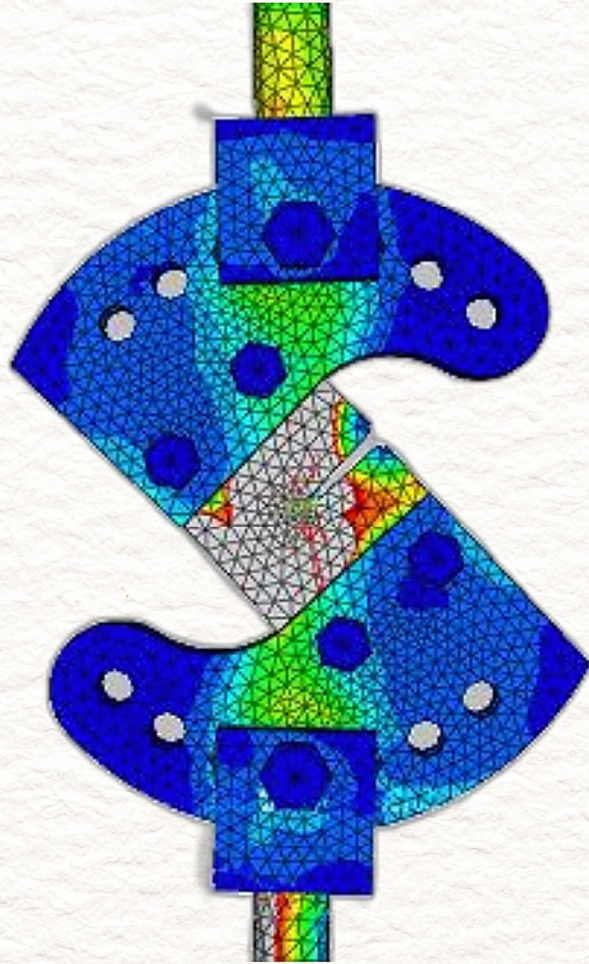


FFIA 2024

SYMPOSIUM ON FATIGUE, FRACTURE AND INTEGRITY ASSESSMENT

<https://ffia2024.com>



July 18 - 19, 2024

Organised by



IIM
Metallurgy
Materials Engineering

Indian Institute of Metals - Jamshedpur Chapter

in association with



CSIR
National Metallurgical
Laboratory, Jamshedpur

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About FFIA-2024

Fatigue, Fracture, and Integrity Assessment is a specialist interaction platform that was initiated in the year 2000 by the CSIR-National Metallurgical Laboratory, Jamshedpur, India. This symposium is the 9th in a series of very successful events that helped knit together a community of technologists, researchers, and students aligned to understanding the mechanics, mechanisms, and methodology of fatigue and fracture of engineering materials and components, with the objective of ensuring their structural integrity. The symposium will cover various aspects of the subject matter through invited talks by leading specialists from across the country and abroad.

Scope of the symposium

The behaviour of materials under monotonic and cyclic loading conditions is a major consideration in the integrity assessment of engineering components. Major advances have taken place in the understanding of fatigue and fracture behaviour of materials with the emergence of newer materials. In the case of existing engineering components, structural integrity assessment and life management have been attracting a great deal of attention in recent years. New approaches and innovative evaluation techniques are continuously evolving to push the performance boundary of engineering materials. This symposium aims to provide a forum for interaction and exchange of knowledge among professionals dealing with materials operating in power plants, defence, aerospace, automotive, oil and gas, and process industries. The deliberations at the symposium would provide an opportunity for further interactions between research laboratories, academia, and industries engaged in material development.

Theme of the symposium

- Service life evaluation of materials and structures
- Giga, High and low cycle fatigue
- Fatigue crack growth and fracture toughness
- Testing of components
- NDT protocols for in-service life assessment
- Root-cause analysis of failures
- Creep and Creep-Fatigue Interactions
- Structural integrity of civil structures
- Fatigue and Fracture of Welded Structures
- Novel testing methods for life evaluation
- Modelling and simulations for fatigue and fracture
- Artificial Intelligence in fatigue and fracture
- Thin sheet fatigue and fracture behaviour
- Correlation of microstructure with fatigue and fracture mechanisms
- Assessment of integrity in automotive component
- Fatigue Behaviour of Composite Materials and Components
- Environment assisted fatigue and fracture

Registration & abstract submission

Delegates are requested to register online. Registration fees should be paid by electronic fund transfer. The online transfer details are given below. Delegates and students are encouraged to participate in poster session. After online payment, please send the duly filled registration form and abstract (only for poster) to the email address attend.ffia@gmail.com

Last date of registration	:	15th June 2024
Last date of abstract submission	:	15th June 2024
Members of IIM	:	Rs.7080
Non-members	:	Rs.9440
Students	:	Rs.2360
Students (IIM Members)	:	Rs.1770

*Registration fee inclusive of GST

Bank details for depositing the registration fee:

A/C Number	:	450020100010066
A/C Name	:	JSR CHAPTER OF INDIAN INST OF METAL
Bank Name	:	Bank of India
Branch	:	Jamshedpur
Branch IFSC Code	:	BKID0004500
MICR Code	:	831013002
SWIFT Code	:	BKIDINBBJAM
GSTIN	:	20AAATT3359D1ZW

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