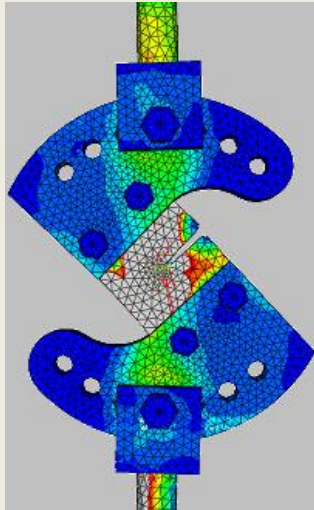
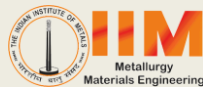


Symposium on Fatigue, Fracture and Integrity Assessment



9 – 11th November, 2021
(through virtual platform)

Jointly organised by



Indian Structural Integrity Society (InSIS)
Indian Institute of Metals - Jamshedpur Chapter
CSIR - National Metallurgical Laboratory, Jamshedpur

ABOUT FFIA 2021

Fatigue, Fracture and Integrity Assessment is a specialist interaction platform that was initiated in 2000 by CSIR-National Metallurgical Laboratory, Jamshedpur, India. This Symposium is 8th 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 the 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 major consideration in the integrity assessment of engineering components. Major advances have taken place in the understanding of fatigue and fracture behaviour materials with the emergence of newer materials. In case of existing engineering components structural integrity assessment and life management are attracting a great deal of attention in recent years. New approaches and innovative evaluation techniques are continuously evolving for pushing the performance boundary of engineering materials. This symposium aims to provide a forum for interaction and exchange of knowledge among the 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 materials development.

TOPICS TO BE COVERED

The following are the broad areas, included in the scope 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 crack growth
- Deformation mechanisms and micro-mechanisms
- Unconventional testing methods
- Modelling and simulation

For more details and registration, please visit <http://bdmserver.nmlindia.org/ffia2021/>

SPEAKERS

Prof. Ashok Saxena, *University of Arkansas, USA*
Prof. Daniel Kujawski, *University of West Michigan, USA*
Dr. R. Sunder, *BiSS, Bengaluru*
Dr. A. Kumar, *Tecsis Corp., Canada*
Prof. V. Raghu Prakash, *Indian Institute of Technology, Madras*
Dr. C. M. Manjunatha, *CSIR-National Aerospace Laboratories, Bengaluru*
Dr. Subir Bhaumik, *CSIR-National Aerospace Laboratories, Bengaluru*
Prof. Krishnan Balasubramanian, *Indian Institute of Technology, Madras*
Prof. Philippa A.S. Reed, *University of Southampton, UK*
Dr. Vikas Saxena, *Ex-DMRL, Hyderabad*
Prof. B. K. Dutta, *Bhabha Atomic Research Centre, Mumbai*
Dr. A. K. Bhaduri, *Indira Gandhi Centre for Atomic Research, Kalpakkam*
Dr. S. Tarafder, *CSIR-National Metallurgical Laboratory, Jamshedpur*
Dr. K. Bhanu Sankara Rao, *University of Hyderabad, Hyderabad*
Prof. Tasnim Hassan, *North Carolina State University, USA*
Dr. N. Eswara Prasad, *DRDO-DMSRDE Kanpur*
Dr. Jayanta Chattopadhyay, *Bhabha Atomic Research Centre, Mumbai*
Prof. U. Ramamurty, *Nanyang Technological University, Singapore*
Prof. Sanjib Acharyya, *Jadavpur University, Kolkata*
Prof. Pravash Chandra Chakraborti, *Jadavpur University, Kolkata*
Prof. K. K. Ray, *Ex-Indian Institute of Technology, Kharagpur*
Dr. Sanket Sarkar, *GE Global Research, Bengaluru*

HOW TO ATTEND

The web-link of the programme will be shared with the participants through email. Please visit <http://bdmsserver.nmlindia.org/ffia2021/> and submit the **Online Registration Form**. The transaction details of fee can be updated separately. The registration fee has to be paid online as per the details given below.

Students	:	INR 1500/-
Members of IIM/InSIS	:	INR 3540/-
Non-members	:	INR 5900/-

(18% GST included)

Bank details: A/C Number: **450020100010066**
Name: **Indian Institute of Metals, Jamshedpur Chapter**
Bank Name: **Bank of India, Branch: Jamshedpur**
Branch IFSC Code: **BKID0004500**
MICR Code: **831013002**, SWIFT Code: **BKIDINBBJAM**

GST No. **20AAATT 3359D1ZW**

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