

Advertisement Details	Fee
Back outside cover page – Colour	Rs. 1,00,000/- (US \$ 1,400)
Inside cover page – Colour	Rs. 75,000/- (US \$ 1,100)
Full page (Inside) – Colour	Rs. 50,000/- (US \$ 700)
Full page (Inside) – Black & White	Rs. 35,000/- (US \$ 500)
Half page (Inside) – Black & White	Rs. 25,000/- (US \$ 350)

Note: 18% GST extra

Payments towards registration fee, sponsorship etc. shall be made in favour of CF-8 payable at State Bank of India, Kalpakkam through bank transfer (domestic: NEFT, overseas: SWIFT). Details are given below:

Account Name	CF-8
Account Number	39127750441
IFSC Code	SBIN0002219
SWIFT Code	SBININBB298

VENUE

The conference will be held at Mamallapuram, Tamil Nadu located 60 Km south of the metropolitan city of Chennai (formerly called Madras) and 15 Km away from Indira Gandhi Centre for Atomic Research, Kalpakkam. Chennai is one of the major industrial cities in India and has numerous academic and research institutions. The city is well connected by international airlines from all over the world. This southern part of the country is also well known for its traditional culture and art. Mamallapuram is famous for its monolithic rock carvings, built largely between the 7th and the 9th centuries, and has been classified as a UNESCO World Heritage Site. Pondicherry, situated about 80 Km south of Kalpakkam was a famous port city and an erstwhile French colony. The city is home to Aurobindo Ashram, Auroville, beaches, churches and temples and attracts a large number of tourists. Auroville is a universal town where people from about 45 countries, from all age groups, social classes, backgrounds and cultures, live in peace and harmony to realise human oneness. Kanchipuram, the famous temple city which is about 65 Km north-west of Kalpakkam is another popular tourist attraction.

WEATHER

The weather during February is generally pleasant; the average temperature will be around 32°C during day time and 22°C at night.

ACCOMMODATION

Mamallapuram being an international tourist spot, there will be great demand for hotel rooms. The organising committee

will make block booking of limited number of rooms in a few hotels around the venue with special rates for the conference delegates. Further details will be notified on the conference website in due course.

VISA INFORMATION

All foreign nationals entering India are required to possess a valid international travel document in the form of a national passport with a valid Visa obtained from the Indian consulate/embassies in their respective countries. They are advised to apply for Conference Visa (not Tourist Visa) for attending the CF-8. A letter of invitation will be provided on demand in advance for the purpose of applying for the Visa. It is proposed to arrange a half-day site visit to Indira Gandhi Centre for Atomic Research on one of the conference days. Those who wish to avail of the opportunity must obtain a regular (sticker) Visa since e-Visa is not admissible for visit to IGCAR.

More details are available at: <https://indianvisaonline.gov.in/visa/index.html>.

INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH

Indira Gandhi Centre for Atomic Research was established in 1971. The Centre is engaged in broad-based multidisciplinary programmes of scientific research and advanced engineering directed towards the development of fast breeder reactor technology in India. IGCAR has successfully operated the Fast Breeder Test Reactor (FBTR) for the last thirty four years with a unique carbide fuel which laid the foundation for the 500 MWe Prototype Fast Breeder Reactor (PFBR) which is in an advanced stage of completion at Kalpakkam. KAMINI, a unique research reactor using a U233 based fuel, is also operational at IGCAR. The Centre has established a strong base in a variety of disciplines related to this advanced technology. The two commercial reactors of Madras Atomic Power Station are also located at Kalpakkam.

IMPORTANT DATES

Abstract submission	May 15, 2020
Notification of abstract acceptance	May 31, 2020
Submission of full manuscript	August 31, 2020
Registration of delegates	November 30, 2020

For further information, please contact:

Dr. A. Nagesha
Convener, CF-8

Dr. G.V. Prasad Reddy
Co-Convener, CF-8

Indira Gandhi Centre for Atomic Research
Kalpakkam - 603 102, Tamil Nadu, India
Phone : +91 44 2748 0500 – Extn: 21080 / 21212
Fax : +91 44 27480075
Email : contact@cf-8.in



8th International Conference on CREEP, FATIGUE AND CREEP-FATIGUE INTERACTION

February 9 - 12, 2021
Mamallapuram, India

Organisers



Indira Gandhi Centre for Atomic Research
Kalpakkam, India



Indian Institute of Metals
Metal Sciences Division and
Kalpakkam Chapter

www.cf-8.in

The Eighth International Conference on Creep, Fatigue and Creep-Fatigue Interaction (CF-8) is being organized by Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, India, in association with the Metal Sciences Division of the Indian Institute of Metals and the Kalpakkam Chapter of the Indian Institute of Metals during February 9-12, 2021. The first Conference in this series was held in the year 1987 and the latest edition (CF-7) in 2016 attracted over 300 delegates including forty two overseas participants. Eminent researchers and engineers working in the areas of creep, fatigue, creep-fatigue interaction, materials development and high temperature design will be invited to share their knowledge and expertise on these topics during the conference. Contributory papers for oral and poster presentations are solicited. The language of the conference is English.

SCOPE OF THE CONFERENCE

Performance of materials under creep, fatigue and combined creep-fatigue loadings is of utmost importance in the design, operation and reliability of high temperature components. Apart from renewable energy alternatives, advanced nuclear reactors and fossil fuel fired advanced ultra supercritical power plants provide cleaner energy options that help combat challenges involved in addressing the growing global energy demands with reduced greenhouse emissions. These involve multifaceted technologies and operating environments which pose new challenges for materials development and understanding of their mechanical behaviour. New materials are being developed to meet the applications for components operating at increasingly higher temperatures and aggressive environments. Widespread damage due to creep and fatigue encountered in aviation and transport industries adversely impact safety and reliability of associated structures. Besides, extension of the useful service life of existing operating power plants is attractive in view of the high capital costs associated with the construction of new plants. Structural integrity assessment and life management require innovative methods for materials testing, assessment of damage, remnant life prediction and materials modeling. CF-8 aims to bring together experts working in the areas of creep, fatigue and creep-fatigue interaction, development of high temperature materials and life assessment so as to facilitate mutual interaction and exchange of knowledge and experience. It would also serve as a platform for discussion on the current advances and identify future R&D needs and collaborations in the above areas. Following are the broad areas included in the scope of the conference:

- Creep deformation, damage and life assessment
- Low cycle, high cycle, very high cycle, thermomechanical and fretting fatigue
- Creep-fatigue interaction
- Multiaxial creep, fatigue and component testing
- Modeling and simulation of creep and fatigue deformation and damage
- Creep, fatigue and creep-fatigue crack growth

- Creep and fatigue of weld joints, structural integrity and remaining life assessment
- Environmental effects including corrosion on creep and fatigue behaviour
- Small scale testing to assess creep and fatigue behaviour
- Design against creep and fatigue and their interaction
- Design codes – application to creep and fatigue
- Materials for fission and fusion nuclear reactors
- Materials for advanced ultra supercritical power plants
- Materials for aerospace and defence applications
- Irradiation effects on mechanical properties
- Damage assessment and life extension
- Failure analysis

WHO SHOULD PARTICIPATE

Delegates: The conference would be of relevance to Researchers, Academicians, Design Engineers, Alloy Designers, Regulatory Authorities, Failure Analysts etc.

Organisations: Research and Development Organisations, Academic Institutions, Materials Manufacturers, Nuclear, Fossil fired, Automobile, Aerospace, Chemical and Petrochemical Industries etc.

CALL FOR ABSTRACTS

Authors are invited to submit abstracts of their papers in not more than 250 words latest by **May 15, 2020**. The text shall be typed in 12 point Times New Roman font with single line spacing and full justification. Detailed affiliation of all authors along with the e-mail address of the corresponding author shall be provided in the abstract. Submission has to be done online through the website **www.cf-8.in** as per the template specified.

PUBLICATION

Accepted abstracts will appear in the abstract book cum souvenir. It is planned to bring out a special issue of the Transactions of the Indian Institute of Metals on the topic of the conference after peer review. Guidelines for full manuscript submission will be released in due course.

REGISTRATION FEE (inclusive of 18% GST)

Members of IIM*	Rs. 9,440
Non-members	Rs. 11,800
Students	Rs. 4,720
Spouse	Rs. 4,720
Overseas delegates	US\$ 708
Student delegates	US\$ 354
Spouse	US\$ 236

*The Indian Institute of Metals

Participants of CF-8 are requested to register themselves before November 30, 2020. The registration fee would cover the delegate kit, conference souvenir cum book of abstracts, tea and lunch on the conference days and banquet dinner.

SPONSORSHIP OPPORTUNITIES

The conference will provide an unique opportunity for organisations and industries to promote their products/services to the focused national and international delegates. The sponsors will have an excellent opportunity to interact with engineers / scientists / academicians during the conference. Sponsorship opportunities and souvenir advertisement details are given below.

Level of Sponsorship	Fee	Benefits to Sponsor
Dinner	Rs. 6,00,000 (US \$ 8,500)	10 min. PowerPoint presentation before the start of dinner, banner during dinner, announcement in the invitation card, logo on the website and cover page of the Souvenir, one page profile of the organisation and full page colour advertisement in Souvenir, free registration for THREE delegates and complimentary exhibition stall.
Lunch	Rs. 4,00,000 (US \$ 5,600)	Banner during lunch, announcement in the invitation card, logo on the website, full page colour advertisement in Souvenir, free registration for TWO delegates and complimentary exhibition stall
Technical Session	Rs. 1,00,000 (US \$ 1,400)	Banner on the stage during the session, announcement at the beginning and end of the session and free registration for ONE delegate

Note: 18% GST extra

SOUVENIR - ADVERTISEMENTS

Paper size: A4, Print Area: 17×24 cm
High Resolution PDF/ JPEG