

3rd International Conference on STRUCTURAL INTEGRITY

August 23-25, 2023



Mamallapuram, Tamil Nadu, India

Organized by



Indira Gandhi Centre for Atomic Research
Kalpakkam



Society for Failure Analysis
Chennai Chapter

In Collaboration with



Indian Institute of Technology Madras
Chennai



Indian Society for Non-destructive
Testing, Kalpakkam Chapter



Indian Institute of Metals
Kalpakkam Chapter



Indian Structural Integrity
Society, Bengaluru

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About

ICONS 2023 will be the third in a series of International Conferences on Structural Integrity and will be held during August 23-25, 2023 at Mamallapuram. The conference is expected to bring together the multidisciplinary community of engineers, scientists, academicians, industrial experts, plant managers and regulatory personnel to discuss the recent developments and future directions in structural integrity. The conference will be jointly organized by Indira Gandhi Centre for Atomic Research, Kalpakkam and Society for Failure Analysis, Chennai chapter in association with Indian Institute of Technology Madras, Chennai and other professional bodies such as Indian Society for Non-destructive Testing Kalpakkam chapter, Indian Institute of Metals, Kalpakkam chapter and Indian Structural Integrity Society.

Scope

- Mechanical Behavior of Materials
- Fatigue and Fracture Mechanics
- Creep and Creep-Fatigue Interaction
- High Strain Rate Loading
- Small Specimens Test Methods
- Fretting and Multi-axial fatigue
- Fracture Mechanics based Design
- Computational Mechanics
- Micromechanics of Fracture and Damage
- Steel and Concrete Structures
- Composites, Bio and Nano Materials
- Structural Materials and Weldment
- NDE and Structural Health Monitoring
- Failure Analysis
- Reliability and Structural Integrity Assessment
- Fitness for Service and Remaining Life Assessment
- LBB Analysis
- Regulatory Aspects
- Life of Nuclear Structures, Aerospace and Automobile Applications
- Offshore and Marine Structure



Abstracts & Proceedings

Authors are invited to submit abstracts of about 2000 characters (text only), clearly indicating the work carried out and salient results in the subject areas listed within the Scope, using online abstract submission system. Authors of accepted abstracts will be invited to submit full length manuscripts which will be published as a special issue in *Procedia Structural Integrity* or *Materials Today: Proceedings* (Elsevier Publications) after peer-review. Detailed guidelines for manuscript submission etc. will be available on the conference website.

Conference Structure

Conference is structured with plenary lectures, keynote lectures and several invited lectures from world renowned researchers, academicians and industrial experts apart from contributed papers as podium/poster presentations. Plenary and keynote lectures would be held at the main auditorium, while oral contributory presentations would be in parallel sessions. Special poster sessions are planned during the conference days of ICONS 2023. Best papers from oral and poster sessions will be awarded on the final day of ICONS 2023.

Pre-Conference Workshops

Two pre-conference workshops will be organized during ICONS 2023:

“Fatigue life and fracture assessment of steel and concrete structural components”

Date: **August 21, 2023** Venue: **CSIR-SERC, Chennai**

“Design, manufacturing and quality assurance of large size components”

Date: **August 22, 2023** Venue: **SRI Convention Centre, Anupuram (Kalpakkam)**

Experts from the above domain areas will deliver technical talks

Important Dates

Deadline for abstract submission	May 31, 2023
Acceptance notification	June 15, 2023
Submission of manuscript	July 31, 2023
Conference dates	August 23-25, 2023