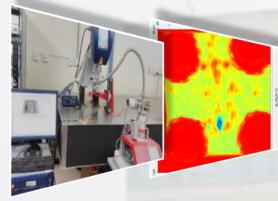


## SICE 2022

భారతీయ సాంకేతిక విజ్జాన సంస్థ హైదరాబాద్ भारतीय प्रौद्योगिकी संस्थान हैदराबाद Indian Institute of Technology Hyderabad

4th Structural Integrity Conference and Exhibition

Pre-Conference Workshops: 12th - 13th December 2022



Conference: 14th - 16th December 2022

**Announcement and First Call for Abstracts** 

For more details and registration, visit the website: <a href="https://mae.iith.ac.in/sice22/">https://mae.iith.ac.in/sice22/</a>

## **Domains**

- **Defense and Aerospace Applications**
- **Nuclear Technologies**
- **Renewable Energy**
- **Advanced Manufacturing**
- **Civil and Naval Structures**
- **Petro-Chemical & Process Industries**
- **Transportation and Railways**
- **Integrated Computational Materials Engineering**
- Integrated Vehicle Health Management.
- Al and ML in Structural Integrity

## **Research Areas**

- **Composite Structures**
- **NDE and SHM**
- **Novel Sensors for SHM**
- **Automated NDE Inspections**
- **Reliability and Structural Integrity**
- **Experimental Characterization**
- **Fracture and Fatigue**
- **Creep and High-Temperature Failure**
- **Computational Mechanics** 
  - **Damage Mechanics**
  - Nano-Mechanics and Nano-Materials \*

- **Multi-Physics Modeling**
- **High Strain Rate Loading**
- **Impact and Blast**
- **Thin Films and Coatings**
- **Wear and Tribology**
- **Structural Joints**
- **Design for AM**
- **Additive Manufacturing**
- **Structural Optimization**
- **Repair and Maintenance** 
  - **Integrity of Weldments**

- **Energy Storage Devices**
- **Wind Energy**
- **Gas Turbine Components**
- **Nuclear Structural Materials**
- **Life Management of Nuclear Structures**
- **Biological and Bio-Inspired Materials**
- **Medical Devices and Implants**
- **Integrity of Concrete and Steel Structures**
- **Offshore and Marine Structures**
- **Oil and Gas Inspection**
- **Automotive Structures**

In-Person

IIT Hyderabad

Important dates: Submission of abstracts: 15<sup>th</sup> April 2022 & Submission of manuscripts: 15<sup>th</sup> June 2022

For sponsorship and exhibition stalls, please email us at: sice22ses@mae.iith.ac.in

Organized by: Department of Mechanical and Aerospace Engineering, IIT Hyderabad under the aegis of InSIS

Proceedings and selected extended papers will be published in SCOPUS indexed Journals

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