

InSIS

Indian Structural Integrity Society



SICE 2022

4th Structural Integrity Conference and Exhibition

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



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



Conference: 14th – 16th December 2022

Announcement and First Call for Abstracts

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

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
- AI 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

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

Important dates: Submission of abstracts: **15th April 2022** & Submission of manuscripts: **15th 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

Contact us at: sice22@mae.iith.ac.in

In-Person

Venue:
IIT Hyderabad