



### Conference: 14<sup>th</sup> – 16<sup>th</sup> December 2022

#### Announcement and Second Call for Abstracts

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

Abstract submission link : <https://bit.ly/3uA6cTF>

Abstract Template link : <https://bit.ly/3JPuUWG>

#### 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: 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](mailto:sice22ses@mae.iith.ac.in)

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

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