



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

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|--|----------------------------|--|
| • Composite Structures | • Multi-Physics Modeling | • Energy Storage Devices |
| • NDE and SHM | • High Strain Rate Loading | • Wind Energy |
| • Novel Sensors for SHM | • Impact and Blast | • Gas Turbine Components |
| • Automated NDE Inspections | • Thin Films and Coatings | • Nuclear Structural Materials |
| • Reliability and Structural Integrity | • Wear and Tribology | • Life Management of Nuclear Structures |
| • Experimental Characterization | • Structural Joints | • Biological and Bio-Inspired Materials |
| • Fracture and Fatigue | • Design for AM | • Medical Devices and Implants |
| • Creep and High-Temperature Failure | • Additive Manufacturing | • Integrity of Concrete and Steel Structures |
| • Computational Mechanics | • Structural Optimization | • Offshore and Marine Structures |
| • Damage Mechanics | • Repair and Maintenance | • Oil and Gas Inspection |
| • Nano-Mechanics and Nano-Materials | • Integrity of Weldments | • 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