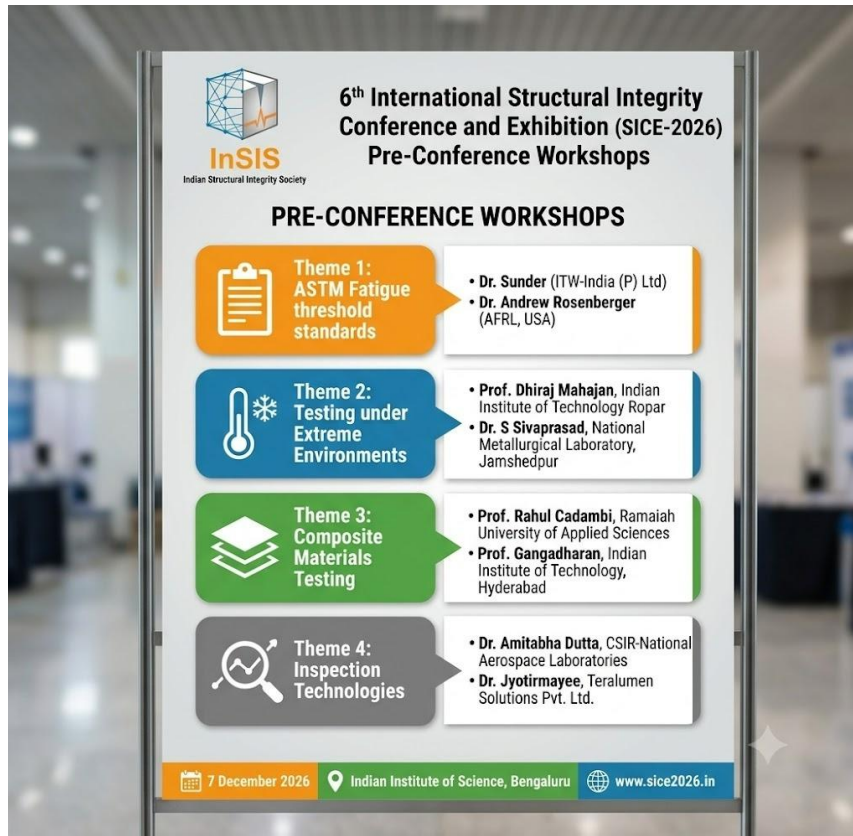


SICE2026 Pre-Conference Workshops

7 December 2026 | JN Tata Auditorium
Indian Institute of Science, Bengaluru



Theme 1: ASTM Fatigue threshold standards

A dedicated workshop on the theory and practice of the new ASTM E3490 standard for fatigue threshold determination.

Theme 2: Testing under Extreme Environments

Recent developments and challenges in materials testing under extreme service conditions.

Theme 3: Composite Materials Testing

Advances in testing methods and structural integrity assessment of composite materials.

Theme 4: Inspection Technologies

Emerging inspection and non-destructive evaluation technologies for structural integrity applications.

Registration

For In-Person Attendees: Registration for the pre-conference workshops for in-person attendees is included through the **SICE 2026 Conference Registration Form**.

[\[Click here for Conference Registration\]](#)

For Online Attendees

Online participation is currently available **only for Theme 1: ASTM Fatigue threshold standards workshops**

Please use the online registration link **only if you plan to attend this workshop online**.

[\[Click here for Online Theme 1 Workshop Registration\]](#)

PRE-CONFERENCE WORKSHOP

Workshop on ASTM E3490

Hands-on testing, standard development & applications

DATE	FORMAT	VENUE	ROOM
07 Dec 2026	Hands-on + technical sessions	IISc & BISS Labs	Not specified

Programme

09:00–12:30	Hands-on exposure to test method IISc & BISS Labs · Vishwas Chandra and Sanjeev Yadav
12:30–14:30	Lunch & relocation to IISc
14:30–15:00	The ASTM Standards development process Andrew Rosenberger
15:00–15:30	Theory & practice of ASTM E3490 R. Sunder
15:30–16:00	Constructing da/dN equation from ASTM E647 & E3490 Vishwas Chandra
16:00–16:30	Tea break
16:30–17:00	IISc experience with ASTM E3490 Sanjeev Yadav
17:00–17:30	Testing per ASTM E3490 at elevated temperature Rahul Kumar
17:30–18:00	AFRL experience with ASTM E3490 Andrew Rosenberger
18:00–19:00	User feedback, Q&A on ASTM E3490 and its applications Chairs: A. Rosenberger & R. Sunder

Time zone: India Standard Time (IST). The supplied schedule notes UTC + 5½ hours.

Workshop focus

Practical exposure to ASTM E3490, standards development, fatigue crack-growth equation construction and elevated-temperature testing.

Registration

SICE 2026 · 7–10 December 2026. Registration details: sice2026.in · sice2026@gmail.com

PRE-CONFERENCE WORKSHOP

Testing Under Extreme Environments

Pre-Conference Workshop on Non-Destructive Evaluation

DATE	FORMAT	VENUE	ROOM
07 Dec 2026	Full day + demo-site visit	JN Tata Auditorium	Hall A

Programme

09:30–10:30	Testing under Hydrogen Environment Prof. Dhiraj Kumar, IIT Ropar
10:30–11:15	High Temperature Testing of Ceramic Matrix Composites Prof. Manikandan Kannan, University of Akron, Ohio, USA
11:15–11:30	Tea / coffee break
11:30–12:30	Non-Destructive Testing Methods for High temperature Testing Prof. Manikandan Kannan, University of Akron, Ohio
12:30–13:30	Extreme Environment Testing at National Metallurgical Laboratories, CSIR Dr. Sivaprasad Seetharaman, CSIR-NML, Jamshedpur
13:30–14:15	Lunch break
14:15	Visit to NDT Demonstration Sites Materials Engineering Department, Indian Institute of Science Bangalore

Programme times and speaker affiliations follow the supplied NDE agenda; the thermography speaker is listed as to be confirmed.

Demonstration visit

14:15–17:30 · Demonstration of Digital Image Correlation
Visit to Ultra High Temperature Testing Labs
Materials Engineering, IISc, Bangalore

Registration

Register through the main SICE 2026 registration. Details: sice2026.in · sice2026@gmail.com

PRE-CONFERENCE WORKSHOP

Composites Testing

Characterization, Damage Tolerance & Qualification of Composite Structures

DATE
07 Dec 2026

FORMAT
Half day + centre visit

VENUE
JN Tata Auditorium

ROOM
Hall B

Programme

09:00	Welcome & workshop overview Session chair: Prof. Gangadharan Raju, IIT-Hyderabad
09:15	Why & how we test composites? Standards, design allowables & the building-block certification pyramid · 45 min + 15 min Q&A · Shri Subba Reddy, Sc. G, ADA-DRDO
10:15	Static mechanical characterization of laminates Tension, compression, shear, ILSS, open-hole & bearing — specimens, fixturing & pitfalls · 45 min + 15 min · HAL
11:15	Tea break
11:30	Damage tolerance & durability Impact, compression-after-impact, fatigue & delamination fracture toughness · 45 min + 15 min · Dr. N. Jagannathan, Principal Scientist, CSIR-NAL
12:30	Panel discussion & open interaction From coupon data to a certified structure
13:00	Lunch
14:00	Guided visit – Composite Testing Centre Walk-through of manufacturing facilities, test rigs, specimen preparation & instrumentation · Peenya Campus, Ramaiah University

Each lecture runs 45 minutes with 15 minutes for interaction.

Who should attend

Test, design & R&D engineers; materials and mechanical practitioners; postgraduate students and early-career researchers; quality and certification specialists.

Registration

Register through the main SICE 2026 registration and select the composites workshop. Seats are limited. Register: sice2026.in · sice2026@gmail.com

PRE-CONFERENCE WORKSHOP

Inspection Technologies

Pre-Conference Workshop on Non-Destructive Evaluation

DATE	FORMAT	VENUE	ROOM
07 Dec 2026	Full day + demo-site visit	JN Tata Auditorium	Hall C

Programme

09:30–10:15	Introduction to Conventional NDE Dr. Ravikumar, Trinity NDT Services, Bangalore
10:15–11:15	Phased Array Ultrasonic Testing Mr. Anandamurugan Subramaniam, Baker Hughes, Bangalore
11:15–11:30	Tea / coffee break
11:30–12:30	Structural Health Monitoring of Composites Dr. Amitabh Datta, National Aerospace Laboratories, Bangalore
12:30–13:30	Terahertz Technology for Advanced NDT Applications Dr. Jyotirmayee Dash, TeraLumen Solutions Pvt. Ltd., Chennai
13:30–14:15	Lunch break
14:15	Visit to NDT Demonstration Sites Palakki NDT, Peenya

Programme times and speaker affiliations follow the supplied NDE agenda; the thermography speaker is listed as to be confirmed.

Demonstration visit

15:15–17:30 · NDT demonstration sites at Palakki NDT, Peenya.

Registration

Register through the main SICE 2026 registration. Details: sice2026.in · sice2026@gmail.com