Bangalore Chapter

INDIAN SOCIETY FOR ADVANCEMENT OF MATERIALS AND PROCESS ENGINEERING
Aeronautical Society of India Building, Suranjan Das Road Junction
New Thippasandra, Bangalore 560075, India
website: www.isampe.org

ISAMPE-BANGALORE CHAPTER ANNUAL REPORT (2025-2026)

Ref No.: ISAMPE-BC/25th-AGM/2606 ***Date*: 16/10/2026**

Dear Esteemed ISAMPE-BC Members,

It gives me immense pleasure to present before you the Annual Report of the Indian Society for Advancement of Materials and Process Engineering-Bangalore Chapter (ISAMPE-BC) for the period April 2025-March 2026.

The 24th Annual General Meeting of ISAMPE-BC was held on Monday, 7th October 2025 at the Aeronautical Society of India Auditorium, AeSI Building, Suranjandas Road, New Thippasandra Post, Bengaluru from 3.30 PM to 6.00 PM. The 12th Dr. B R Somasekhar Memorial Lecture (AGM Technical Lecture) was delivered by Dr. S. Raja, Chief Scientist and Professor (AcSIR), Structural Technologies Division, CSIR-National Aerospace Laboratories, Bangalore, on "Composites Technology from Vibration and Aeroelasticity Perspectives". This lecture was well-received and appreciated by all the participants. After the lecture, the AGM's Business Session was held.

The 24th AGM unanimously elected the following Office Bearers for ISAMPE -BC for the year 2025-2027.

Sl. No.	Post	Office Bearers
1	Chairperson	**Dr. ST Aruna** Chief Scientist, SED CSIR – National Aerospace Laboratories (CSIR-NAL) HAL Airport Road Bengaluru 560017
2	Vice Chairman	**Mr. Sandeep Kumar Panigrahi** Senior Manager Aircraft Research & Design Centre Hindustan Aeronautics Limited (HAL) Bengaluru 560037

Sl. No.	Post	Office Bearers
3	Secretary	**Dr. Kundan Kumar Verma** Senior Principal Scientist, ACD CSIR – National Aerospace Laboratories (CSIR-NAL) HAL Airport Road Bengaluru 560017
4	Joint Secretary	**Dr. Arun Kumar** Sc/ Engr "SG", URSC. ISRO HAL Airport Road, Bengaluru 560017
5	Treasurer	**Mr. N Saravana Kumar** Senior Technical Officer-3, ACD CSIR – National Aerospace Laboratories (CSIR-NAL) HAL-Airport Road Bengaluru 560017

Though the 24th AGM elected Mr Saravana Kumar STO of ACD, CSIR-NAL, Bengaluru as the Treasurer, due to his ill health he has resigned the post. After discussing with ISAMPE HQ, an interim Treasurer was nominated. **Mr Athimoolaganesh S** of ACD, CSIR-NAL is serving as the interim Treasurer from Sept-2025. His tenure will be regularized in this 25th AGM.

The Chairperson proposed to continue with M/s. Suri and Co as the auditors for the financial year 2025-26 and the AGM approved it.

During October 2025, ISAMPE-BC conducted a Technical Seminar on "Structural Health Monitoring of Aircraft using Nerves of Glass" on 31st October 2025 at CSIR-NAL from 3PM to 4PM. The talk was delivered by Prof. Balaji Srinivasan, DST-IITM Pravartak Senior Faculty, Advisor, Internship & Placement and Founder / Director of Folium Sensing Pvt Ltd. The event was conducted in hybrid mode, with 141 participants attending online and 45 members attending in person. The talk provided valuable insights into the use of sensors for structural health monitoring and the indigenous development of interrogator systems. Prof. Balaji talked about SHM based on ultrasonic guided waves which is attractive for long range inspections of large scale and complex composite structures.

He also explained about Fibre Bragg Grating (FBG) based SHM systems to detect and quantify structural defects, thus ensuring its reliability and operational life cycle. FBG sensors have

recently been found to be extremely useful for detecting ultrasonic guided waves, including feature-guided waves (FGW) - a specific class of waves that are confined and guided in features such as bends, welds, and thinned regions of a material. In this talk, he discussed the wide range of possibilities that have been opened up by ultrasonic guided-wave FBG sensors and interrogators, including detection of defects in composite bonds and delamination. This talk was well-received and appreciated by all the participants.

During the present tenure, a new ISAMPE Student Chapter at Christ University, Bangalore, was established on 7th February 2026. Two technical talks were delivered by ISAMPE-BC Chairperson, Dr ST Aruna and ISAMPE-BC Secretary, Dr Kundan K. Verma. Dr Aruna delivered a talk on nanomaterials, their importance and uses. She also explained the need for research in this area to encourage the students. Dr Kundan spoke about the uses of advanced composite material systems, their selection criteria, and research topics in the field of composite materials. All the students and professors who attended the talk appreciated it.

ISAMPE-BC is planning many activities like technical lectures by eminent scientists and academicians, workshops, seminars etc for the benefit of ISAMPE-BC members in the future.

In total, ISAMPE-BC Governing Council Members have taken initiatives in keeping the Society vibrant and active.

Dr Kundan Kumar Verma
Secretary, ISAMEP-BC

Dr ST Aruna
Chairperson, ISAMPE-BC