



**INDIAN SOCIETY FOR ADVANCEMENT OF
MATERIALS AND PROCESS ENGINEERING**

Aeronautical Society of India Building, Suranjan Das Road Junction
New Thippasandra, Bangalore 560 075

Website: www.isampe.org

**Thirty fifty Annual General Meeting (35thAGM)13thNov 2021
Virtual meeting(Through online)**

Ref No. ISAMPE/35th AGM/2021 dated 10.Nov 2021

SECRETARY'S REPORT

Dear ISAMPE Members,

It gives me great pleasure to present you the annual report of the Indian Society for Advancement of Materials and Process Engineering (ISAMPE) for the year 2020-2021. Even though, due to the current pandemic situation (Covid -19) and as per the prevailing Government of India SOP (guide lines on restriction of mass gathering), this year ISAMPE could do its best efforts to conduct few technical sessions virtually (through online) However, once the situation comes to normal and the ease of government regulation on the mass gathering we would like to have the few more technical sessions.

Election of Executive Board (EB)

In pursuance of the Election Procedure (vide-Sec. 5.3 of the Rules and Regulations) elections were required to be held this year to the offices of Treasurer, Joint Secretary-2 and Director - 2 in the Executive Council of the Society for the official years 2020-2021. As no other nominations were received, the following ISAMPE EB nominees were elected unopposed and this was approved in last the AGM, held on 17th October 2020.

Post	Board Nominee
Treasurer	Mr. K Ravisekhar, Scientist-D, Composite Technology Center (CTC) Aeronautical Development Establishment, ADE Suranjan Das Road, New Thippasandra PO, Bengaluru, Karnataka 560075

Jt. Secretary-2	Mr. D Karuppannan, Scientist, Advanced Composites Division (ACD) CSIR - National Aerospace Laboratories. HAL-Airport Road, Kodihalli Bangalore -560017
Director-2	Mr. D Poomani, Group Director - Structures Group, U R Rao Satellite Centre, HAL-Airport Road ,Murugeshpalaya Bangalore -560017

ISAMPE Main Body Activities (2020-21):

Following is a summary of activities completed / initiated / planned by ISAMPE in the last one year.

➤ **Activities Completed**

- The 34th Annual General Meeting of ISAMPE was held virtually (Through online) on 17th October 2020 (Saturday). Due to the current pandemic situation (Covid -19) and as per the prevailing Government of India SOP (guide lines on restriction on mass gathering), it is proposed to have a virtual AGM (Through online) for the business session only. The AGM was well attended by ISAMPE members.
- 29th Vijay Zaveri Memorial Lecture: Due to the pandemic situation the 29th Vijay Zaveri Memorial Lecture could not able to conduct, it is proposed to have the same, once the situation comes to normal and the ease of government regulation on the mass gathering.
- 15th Prof. AK Rao Memorial Lecture: Due to the pandemic situation the 15th Prof AK Rao Lecture could not able to conduct, it is proposed to have the same, once the situation comes to normal and the ease of government regulation on the mass gathering.
- Life Membership: ISAMPE has crossed 2008 in terms of life membership count. The drive will continue further.
- ISAMPE Website Update: Freshly designed ISAMPE website with various new value added features is being launched, **Website ID: www.isampe.org**. It also provides a platform for Industries to advertise their products and capabilities and

provide a forum for interaction between ISAMPE members, industries and institutions. Freshly designed ISAMPE website with various new value added features has been launched.

- E-mail ID Updating: Serious efforts have been initiated for E-mail ID updating of members and many communication gaps have been already bridged. The drive will continue further till almost all members are brought within the e-mail communication loop. However, in website there is a provision to update the member email ID through the enquiry link. All the members are requested to use the same for updating their Email ID's.

➤ **Activities in Progress**

- Issue of Photo ID Cards to ISAMPE Life members: The process for the issue of Photo ID Cards to ISAMPE Life members is initiated and as of now already close to 500 ID cards are printed and handed over to the respective individuals. This process will be continued till the completion for all the members. It is also initiated for a fresh members, the ID card will be issued along with the Life member ship certificate. And also requested all the members who have not given their ID card applications are requested to give the same to the Society, enable the society to take care of their ID cards also.
- ISAMPE understands the importance of imparting education and exposures to the engineering student community. In this regard, ISAMPE has instituted a Student Chapter in Bangalore, which is spread across several engineering colleges in the city. The students are given necessary exposure to composite technologies by through workshops, lectures and visits to relevant facilities. Similar student chapter is also being planned to be set up in Pune.

➤ **Future Activities**

- ISAMPE would like to improve the industrial participation in the ISAMPE activities. Increase the corporate membership, through which the industries can be directly involved in the corporate activities.
- Enhance the ISAMPE activities through the website.

- Involvement of the student members in the ISAMPE activities though organizing the workshops and visits to the industries.

Highlights of Various ISAMPE Chapter Activities (2020-21)

ISAMPE Bangalore Chapter:

The main activities of the Chapter are listed below.

- The 20thAGM of the Bangalore chapter was held on 09th Oct 2021 (Virtually), which was well attended.
- The AGM was preceded by 8th Dr. BR Somashekar Memorial Lecture on **“Advanced Structural Composites through Resin Film Infusion Process”** by **Dr. Anoop Anand**, Sc-E, Composite Research Center, R & DE (Engrs), DRDO - Pune.
- Bangalore chapter organized two technical sessions virtually, the first sessions on the topic **“Thermoplastic Composite Materials”** was delivered by Mr. Jim Pratte, Technology fellow, M/s Solvay Composite Materials, USA on 30 Oct 2020. And the second talk on **“3D Printing Application with Case Studies for Aerospace Composite Part Design and Fabrication”** was delivered by Mr. AbhijeetRathore, Chief Technology Officer, Fabheads, Bangalore on 05 Mar 2021. Both the technical sessions were well attended members of the ISAMPE fraternity.

Office bearers for 2020 - 21 are as mentioned below:

Chairman	Dr. Shylaja Shrihari, CSIR, NAL
Co- Chairman	Prof. Madhav Murthy,BMSCE
Secretary	Dr. Sandhya Rao, CSIR, NAL
Jt. Secretary	Mr. Ashit Kumar, Sc-D, ADA.
Treasurer	Ms A Revathi, CSIR-NAL

ISAMPE Pune Chapter:

The activities undertaken by the Chapter in the last year are listed below.

- The 17thAGM of the Pune chapter was held on 17th Sep 2021, which was well attended.

- Two Technical lectures were organized. First talk was delivered by Mr. Mandar Lele, Director Speciality Innovative Pvt Ltd on “**Coatings for Composite material**” The talk was focused on various types of coatings used for different composites structures. Second talk was delivered through VC by Dr. P.J.Guruprasad, Associate Professor, IIT Mumbai on “**Design and Development of Shape Memory Polymer based morphing Structure**”. The speaker has given details of design methodology used for development of shape memory polymer based wing morphing structure. Speaker has also presented a case study of development of a morphing wing structure using shape memory polymer.
- It is also decided by the chapter to increase the involvement of composites industries of Maharashtra and Gujarat region and academia of Pune region with ISAMPE by conducting workshops/ seminars with active industrial participation keeping in view of the COVID protocol..
- Apart from this, it is planned to add more members in ISAMPE for which membership drive is being undertaken for both individuals and organizations to increase interaction between people of composites fraternity in the region.

Office bearers for 2020 - 21 are as mentioned below:

Chairman	Shri P M Kurulkar, OS and Director R & DE(E)
Co- Chairman	Dr. Makarand Joshi, Scientist, R & DE (E)
Secretary	Dr. Amit Kumar Gupta, Scientist, R & DE (E)
Joint Secretary	Ms. Jayalakshmi CG, Scientist, R & DF (E)
Treasurer	Shri Rajendra Kumar Gupta, Scientist, R & DE (E)

ISAMPE Coimbatore Chapter:

The activities undertaken by the Coimbatore Chapter in the last year are listed below.

- Technical talk on “**Process Design and Engineering Practice - An Overview**”, by Mr. Raja Shekhar and Mr. Cheluva Kumar, PRENTAC Bangalore, on 17 Oct 2020. The speakers talked about Management of Change in Process Design and Engineering, Project Opportunity Framing and Value Realization Process, Chemical Plant Design and Engineering Workflow, Industry 4.0-Digital Transformation.
- Another Webinar talk on **Industry 4.0, Process Safety and Energy Management** by Mr. Vamshi Reddy and Mr. Rishi KaashyapBalaji, from Akzo Nobel, Bengaluru on 24 July 2020. The significance and the latest trends in energy management in industry environment was presented in a lucid manner.
- Technical talk on “**Thermo-analytical and rheological characterization techniques for engineering materials**” by Mr. Naagarjun Sridhar, Applications Specialist, Waters Corporation-TA Instruments, India, on 05 September 2020. The advanced equipments used in thermal and rheological characterization of materials polymeric materials were introduced to the audience by the speaker.
- Another Webinar talk on “**Process design**”, from executive from SB Technologies, Mumbai on 11 Sep 2020. The softwares used in Process design and case studies were presented by the resource persons.
- Office bearers for 2020-21 are as mentioned below:

Chairman	Prof. K.Jayanarayanan
Co-Chairman	Prof. SriramDevanathan
Hony.Secretary	Prof.R.Subba Rao
Joint.Secretary	Mr. MahadevanLakshmanan
Treasurer	Dr.Meera Balachandran

ISAMPE Thiruvananthapuram Chapter:

The activities undertaken by the **Thiruvananthapuram Chapter** in the last year are listed below.

- The Annual General Meeting for ISAMPE, Thiruvananthapuram Chapter was held on 10 November 2021 at 18:00 hrs.

- Considering the pandemic situation, Chapter conducted the following technical talks virtually through Webex
 - Technical talk on "**Application of Multibody Dynamics Tools in the Design of Spacecrafts and Vehicles**" by Dr. Hari Nagarajan, Blue Origin's New Glenn launch vehicle, on 31 October, 2020.
 - Talk on "**Prospects and opportunities in Satellite Constellation**" by Mr. Tom Sergert, CEO, BST, on 20th Feb. 2021.
 - Technical talk on "**High Power Battery Technologies for EV and Micro-grid Applications**" by Prof. Palani Balaya, National University of Singapore, on 20th March 2021.
 - Technical talk on "**CVD/CVI technology for Engineering Applications**" by Mr. Sylvain Bentivegna, CEO MPA, France, on 10th April 2021.

All the technical lectures were well attended by members.

Office bearers for 2020-21 are as mentioned below:

Chairman	Shri. L. Mohan Kumar
Vice-Chairman	Shri Vinu Viswanath
Hony. Secretary	Shri. Aravind Jithin
Joint Secretary	Shri. Manoj M.R
Treasurer	Shri. Karthikeyan

ISAMPE Hyderabad Chapter:

The activities undertaken by the Hyderabad Chapter in the last year are listed below.

- The AGM of the Hyderabad chapter was held on 12th Nov 2021, which was well attended.
- Proceeding to the AGM, Hyderabad chapter conducted one day work shop on "Recent Advances in polymers and Composites". As a part of work shop Hyderabad chapter conducted four technical talks as follows:
 - "**Nano – Composites and the Present Status**" by Prof. Subramaniam from IIT Hyderabad.

- **“Aerospace Material and Advancements”** by Mr. Rajesh J, TAML, Bangalore.
- **“Novel Application using High temperature Composites for hot structures and propulsion systems”** by Mr. John Paul, Azista Composites Pvt Ltd, Hyderabad.
- **“Polymer Bio –Degradable Materials”** by Dr. K Veera Brahman, ASL, Hyderabad.

Office bearers for 2020-21 are as mentioned below:

Chairman	Dr. M R M Babu, Director, ASL, DRDO
Vice-Chairman	Mr. Anil Kumar, Sc-G, ASL, DRDO.
Hony. Secretary	Dr. K.Srinivas, Sc-F, ASL, DRDO.
Joint Secretary	Dr. I Srikant, Sc – F, ASL. DRDO
Treasurer	Dr. K Veerabrahmam, Sc-F, ASL, DRDO.

Secretary’s report was not received from the other Chapters (Dhanbad & Kanpur) and hence could not be reflected in this report.

I thank all the ISAMPE Chapters for conducting many programs for the benefit of ISAMPE members as well as for the student members during the current difficult situation (Covid - 19).

ISAMPE Annual Awards (2020):

Due to the current pandemic situation it is recommended that the annual awards Ceremony will be differing for one year / until the situation turns to normal. Once normalcy returns say by 2021-2022, ISAMPE awards will be initiated for the past 2 years 2019-20, 2020-21.

Honorary Membership for year (2020):

Due to the current pandemic situation it is recommended that the felicitation of honorary members will be differing for one year / until the situation turns to normal.

Once normalcy returns say by 2021-2022, ISAMPE honorary membership will be issued for the past 2 years 2019-20, 2020-21.


ISAMPE EB Meetings (2020-21)

The ISAMPE EB arranged 4 meetings and 4 EC meetings during the year to chalk out many programs. We used to meet about once a quarter and the EB Meetings were also attended by members from various chapters to discuss their issues.

With this, I wish you all a professionally satisfying association with the society during the coming year as well. I would also like to thank members of ISAMPE EB, especially Dr. S Saji, President-ISAMPE, for supporting me to conduct ISAMPE activities in befitting manner for the past one year. I also thank all of you for the cooperation and constructive suggestions extended to the new EB for improving ISAMPE in all possible ways. I once again thank all ISAMPE members for giving me the opportunity. It was a great pleasure and honor to serve you all. This year also happens to be my last as the Secretary of this esteemed Society. I did my best for the last 4 years, I will cherish these memories throughout my life and I once again thank all ISAMPE members for giving me the opportunity. It was a real pleasure and honor to serve you all.

Thanking you,

Bangalore
12th Nov2021


(Srinivas M)
Secretary, ISAMPE