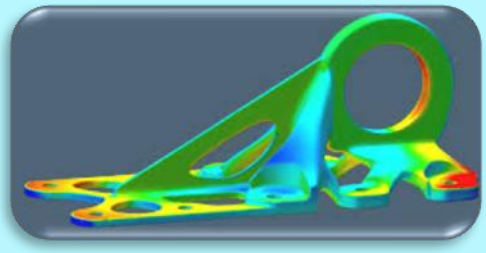
IIM
Metallurgy
Materials Engineering

National Symposium
On
Advancements in Metal Additive Manufacturing $(AM)^2$

"Shaping the Future of Aerospace Manufacturing"





at
Hotel Residency Tower, Trivandrum
on
3rd May-2025 (Saturday)

Jointly Organized by

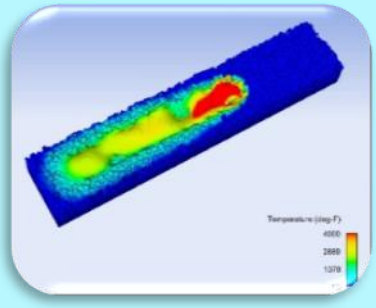
Vikram Sarabhai Space Centre, Thiruvananthapuram
Liquid Propulsion Systems Centre, Thiruvananthapuram
Indian Institute of Space Science and Technology, Thiruvananthapuram
&
Indian Institute of Metals (IIM), Trivandrum Chapter

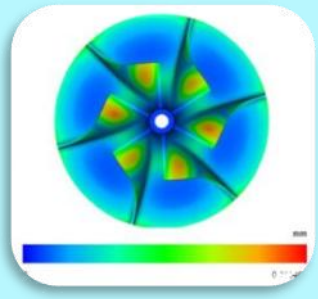
Overview of the Symposium

Metal Additive Manufacturing (Metal AM) is transforming industries by enabling complex designs, improving reliability by part count reduction, minimizing material wastage, reducing buy-to-fly ratio of components, revolutionizing production efficiency and reducing cycle time. The National Symposium on ***"Advancements in Metal Additive Manufacturing (AM)^2 "*** aims to bring together Industry Leaders, Researchers, and Policymakers to discuss the latest trends, advancements, and applications in Metal AM.

Key Highlights of the Symposium

- Expert talks from leading researchers and industry professionals
- Panel discussion on innovations, industrial applications, and challenges
- Exhibition & Demonstrations of Metal AM technologies
- Networking opportunities with professionals and stakeholders





Who Should Attend?

- Designers
- Engineers & Technicians
- Industry Professionals
- Engineering Students
- Researchers & Academicians
- Entrepreneurs & Startups
- Policymakers & Government Officials

About the Indian Institute of Metals (IIM, TVM Chapter)

The Indian Institute of Metals (IIM), Trivandrum Chapter was established in 1979. Today, in its long professional and technical journey it has become a nodal platform for the metallurgists, materials engineers and scientists of the chapter covering R&D organizations like VSSC, CSIR-NIIST, LPSC, IIST, SCTIMST and industries like Brahmos, IREL, Travancore Titanium Products (Ltd). Its activities include the whole gamut of Technology and Science applications in the areas of extractive metallurgy, ferrous and non-ferrous metals and alloys, mechanical metallurgy, advanced ceramics, composites, other emerging materials and metal additive manufacturing.

About Thiruvananthapuram

Located at the south-western tip of Indian subcontinent, Thiruvananthapuram, which is also known as Trivandrum is a calm, beautiful and quiet city. It is the capital of Kerala (God's own country), which has a long coast line full of coconut trees and is much –sought-after tourist destination. The major attractions in Trivandrum are lakes, beaches, palaces, temples, museum and zoo. The world famous Kovalam beach and Sri Padmanabha Swamy Temple are in Trivandrum. Another major tourist spot, Kanyakumari, is about 95 km south of Trivandrum.

Organizing Committee of $(AM)^2$

Chairman	**:**	Dr. T.P.D. Rajan, Chief Scientist, CSIR, NIIST
Co-Chairman	:	Dr. Rohit Kumar Gupta, GM, MMA/MME, VSSC
Convener	:	Dr. V. Anil Kumar, DGM, MPA/MME, VSSC
Co-Convener	:	Dr. V.S. Sooraj, Asso. Prof., Dept. of Aerospace Engineering, IIST
Treasurer	:	Shri. S. Dineshraj, Section Head, HIPF/MMG/MME, VSSC
Members	:	Dr. S.V.S. Narayana Murty, GM, MME, LPSC
		Dr. U. S. Hareesh, Chief Scientist, CSIR-NIIST
		Dr. A. Srinivasan, Senior Principal Scientist, CSIR-NIIST
		Dr. S.S. Sreeja Kumari, Principal Scientist, CSIR-NIIST
		Dr. K. Jayashankar, Senior Principal Scientist, CSIR-NIIST
		Prof. Chakravarthy P, Dept. of Aerospace Engineering, IIST
		Dr. S. Chenna Krishna, Scientist, MPD/MMG/MME, VSSC
		Shri. J. Srinath, Scientist, FDA/MMA/MME, VSSC
		Dr. Jalaja K, Scientist, MCD/MMG/MME, VSSC
		Shri. J. Venkatesan, Senior Scientist, CSIR-NIIST
		Dr. Parijat Pallab Jana, Scientist, CSIR-NIIST
		Shri. Apurba Roy, Scientist, MPA/MMA/MME, VSSC
		Shri. Sandipan Das, Scientist, MME, LPSC
		Shri. A. Peer Mohammed, Senior Technical Officer, CSIR-NIIST

Exhibition Opportunities

The symposium will feature a dedicated exhibition area showcasing the latest innovations in Metal AM technologies. Exhibitors will have the chance to display products, interact with industry professionals and establish business collaborations. Exhibitor Benefits include dedicated booth space with branding, Live demonstrations of AM technologies, and one-on-one business networking opportunities.

Sponsorship Opportunities

We invite industries and organizations to partner with us as sponsors to gain visibility among decision-makers and pioneers in Metal AM. Sponsorship benefits include brand exposure, speaking slots and exhibition opportunities.

Sponsorship Details

Category	Amount	Eligibility
Platinum Sponsor	**Rs. 2.0 Lakhs + 18 % GST**	5 Free Delegates+ Exhibition + Full Page Colour Advertisement*- Front Inner Page/Back Cover Page Outer/ Inner
Gold Sponsor	**Rs. 1.5 Lakhs + 18 % GST**	3 Free Delegates+ Exhibition+ Full Page Colour Advertisement
Silver Sponsor	**Rs. 1 Lakh + 18 % GST**	2 Free Delegates + Full Page Colour Advertisement
Exhibition (3m x 3m)	**Rs. 75,000/- + 5% GST**	1 Free Delegate
Full Page Colour Advertisement	**Rs. 50,000/- + 5% GST**	Front Inner Page/Back Cover Page Outer/ Inner- Rs. 25,000 Extra)* * First cum First Serve basis
Half Page Colour Advertisement	**Rs. 30,000/- + 5% GST**	-

Delegate Registration

(Includes Entry to Symposium, Exhibition, Tea/ Coffee, Lunch, Delegate Kit)

VSSC/ LPSC/IISU Delegates	:	Rs. 3,500/-
(Discounted Group fee for 25 Delegates- Rs. 80,000/-)		
IIM Members	:	Rs. 3,000/-
NIIST/ Other R&D Delegates	:	Rs. 3,500/-
Student Delegates	:	Rs. 1,500/-
Industry Delegates	:	Rs. 4,000/-

Note:

1. Delegate Registration fee is inclusive of GST
2. Nominations to be sent before 20th April-2025.
3. Rs. 500/- Extra for Nominations at Later Date/ Spot Registration

For Registration: Use Google Form Link @ https://tinyurl.com/NSAM2

Tentative Programme Details (0900 to 1745 hrs)

Inaugural Programme **(30 min.)**

Tea Break, Exhibition & Networking **(60 min.)**

Session 1: Advancements in Metal AM Software & Workflow **(150 min.)**

- Design for Additive Manufacturing (DfAM)
- Modeling & Simulation in AM
- AI & ML in AM
- Advancements in Software for LPBF machines
- Post Processing of AM Components
- Role of CT in AM

Lunch, Exhibition & Networking **(60 min.)**

Panel Discussion **(45 min.)**

Theme: 'Future of Metal AM in India- Aerospace Perspective on Growth Opportunities, Industry Adoption and Collaboration'

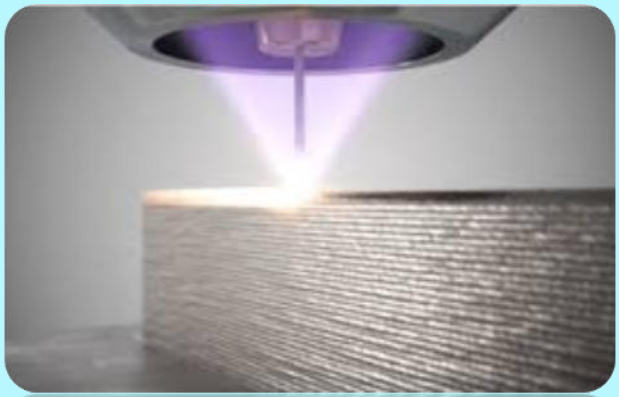
Session 2: Advancements in Powders & Metal AM Technologies **(75 min.)**

- Latest Advances in Metal Powders for AM
- Advances in Directed Energy Deposition (DED)
- Innovations in Wire Arc Additive Manufacturing

Tea Break, Exhibition & Networking **(30 min.)**

Session 3: Qualification in Metal AM **(75 min.)**

- Qualification of AM components for Fighter Aircraft
- AM for Space Applications
- Applications of DED



Address for Correspondence:

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Convener, Organizing Committee, $(AM)^2$

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Payment Details

Name	: **Indian Institute of Metals Trivandrum Chapter**
A/C No.	: **10561683618**
Bank	: **State Bank of India**
Branch	: **Thumba**
IFSC	: **SBIN0002279**

How To Reach Thiruvananthapuram

By Air: Thiruvananthapuram is well connected by air to all major cities in India and abroad. Trivandrum international Airport is about 10 km from the venue of the conference. Prepaid taxis are available to the venue of the conference from airport.

By Train: Thiruvananthapuram Central is one of the most important railway stations in South India and is well connected by train to all parts of India. Public transport/taxi is available from these stations. The bus station is just across the road.

By Road: Thiruvananthapuram is well connected to all main destinations in India by a very good road network. Bus services are available from Chennai, Bangalore, Mangalore, and major cities in Kerala, Karnataka and Tamil Nadu. The local bus service provides a convenient way of moving in the city. Taxis and Autorickshaws are also available for local travel.

Note: Delegates have to make their own arrangements for transport and accommodation.