



AM 3D AERO 2022

INDIA



CONFERENCE & EXPO

December 08-09, 2022

Ramaiah Institute of
Technology Bengaluru, India



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WWW.AM3D.ORG.IN

Greetings! Welcome to the ASME India AM 3D Aero 2022 Technical Conference.

It gives us a great pleasure to invite you to participate and contribute to this event scheduled for **December 8-9, 2022** in Bengaluru, India.

Additive Manufacturing is vital to advanced manufacturing and is a transformative technology enabling mass customization of products through self-learning environments. It offers substantial design flexibility and leads to substantial saving of time and cost in the industrial parlance particularly in aerospace and defense sectors.

In contrast to other industries, aerospace and strategic sector like defense have very stringent and unique set of requirements relating to materials, manufacturing, reliability, inspection, regulatory, traceability, and business considerations relating to production systems, supply-chain, etc. It is therefore, imperative that the various stakeholders work together in a synergistic manner to drive these developments in a fast and efficient manner. These include engineers working in design, manufacturing & testing industry, scientists & engineers in industrial and academic research, regulatory institutions, supply-chain specialists, educationists and the engineering student who are our future workforce.

It is with above goal in mind, that we introduce the ASME India AM 3D Aero 2022 conference with a dedicated focus to additive manufacturing science, technology, practice, and trends relative to aerospace and defense applications.

The first edition of this annual conference will be held in the city of Bangalore on December 8-9' 2022. This is a not for profit technical conference, curated by the engineers & scientists for the engineers & scientists. The technical program will comprise of a series of invited talks providing in-depth account of various topics covering industry challenges, needs and best practices, academic research, supply-chain considerations, and development trends in materials, manufacturing, equipment, certification, education, sustainability.

The technical program will be supplemented by posters and exhibits on emerging R&D efforts within multiple players including OEMs in the aerospace and AM end users community, AM service providers, AM modeling and simulation resources, hardware developers etc., within various scientific and industrial organizations. This conference series will map and benchmark the high-value additive technologies into the industrial ecosystem supporting the aerospace and defense sectors. This conference marks the formation of an ASME Additive Manufacturing Advisory group in India. This group currently comprises of AM practitioners from leading OEMS in the Aerospace & Defense industry, top research organizations and premier academic institutes.

We look forward to your active participation in the upcoming conference.



Dr. Om Prakash
Conference Chair
Boeing India



Prof. NVR Naidu
Conference Co-Chair
Principal RIT

WELCOME TO ASME INDIA

AM 3D AERO 2022

Patron

Mr Ahmed Elsherbini

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Technical Fellow, Boeing Research & Technology, Huntington Beach, US

Mr Boopathy Saravanan

Manager, Collins Aerospace, Bengaluru

Dr Dheepa Srinivasan

Chief Engineer, Pratt & Whitney R&D Center, Indian Institute of Science, Bengaluru

Dr Ing. Priyanshu Bajaj

Regional Manager, Asia Pacific, m4p Material Solutions GmbH, Bengaluru

Mr Jitendra Singh

Flight Test Engineer, Fmr Defence Scientist, Govt of India, Bengaluru

Dr Jeffrey H. Hunt

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GVMC Chair and Professor Indian Institute of Technology, Kanpur

Dr Smita Mohanty

Director - LARPM CIPET, Bhubaneswar

Mr Yathiraj Kasal

General Manager & Head Wipro3D, Wipro Enterprises, Bengaluru

Conference Highlights

- Pre-conference workshops
- Invited Talks
- **Panel discussions:**
Local and global imperatives and opportunities for growth of AM in aerospace sector
- Industrial Expo
- Poster competition

Invited Talks

- A birds eye and ground level view on the Global and Indian AM ecosystem and industry and future trends
- Indian Military Airworthiness Certification procedure of AM parts and path ahead to achieve self-sufficiency in the field
- Overview of NDT Approaches for Inspecting AM Components
- Advances in New Materials and Test methods for accelerated AM qualifications for Gas Turbines
- Clean and reliable metal powders - a statistical approach
- Sustainable Machining Solutions for Additively Manufactured Parts
- Structural integrity of 3D printed metals
- Potential impact of additive manufacturing in sustainable aviation

Check conference website for more details...

SPEAKERS

KEYNOTE

Dr Melissa Orme

Vice President, Boeing Additive Manufacturing

Mr Alex A.

DY Director, CSC LPSC,
Bengaluru

Dr Andreas Pelz

CTO & Managing Director,
M4P, Germany

Mr Ankit Sahu

Objectify,
Noida

Mr Ashok Varma

EVP & Global Leader AM, Bharat
Fritz Werner India

Prof Asim Tewari

Professor, Mechanical Engg.
IIT Mumbai

Prof B. Gurumoorthy

Professor, IISc,
Bengaluru

Mr Bhrigu Ahuja

Objectify
Noida

Dr C. P. Paul

RRCAT,
Indore

Prof C. S. Kumar

Depart. Mechanical Engg.
IIT Kharagpur

Dr Dheepa Srinivasan

Chief Engineer, Pratt & Whitney
R&D Center, Bengaluru

Dr Gururaj Telasang

ARCI,
Hyderabad

Mr Jitendra Singh

Flight Test Engineer, Fmr Defence
Scientist, Govt of India, Bengaluru

Dr Jeffrey H. Hunt

Boeing
USA

Mr Karthik J.

Wipro3D,
Bengaluru

Prof Krishnan Balasubramaniam

Institute Professor, IIT Madras

Dr Nagahanumaiah

Director CMTI,
Bengaluru

Dr Navneet Khanna

Associate Dean,
IITRAM Ahemdabad

Prof Prabhu Nott

Prof (HAG), IISc,
Bengaluru

Prof Ramesh Singh

Professor, Mechanical Engg.
IIT Bombay

Prof Roy Mahapatra

IISc,
Bengaluru

Prof S Suryakumar

Professor, Mechanical & Aerospace
Engg., IIT Hyderabad

Dr S. Narayanaswamy

A*STAR Research Entities, Principal
Scientist and Director of Engineering

Prof Satish Bukkapatnam

Rockwell International Professor,
Texas A&M University

Prof Shantanu Bhattacharya

Professor, Dept. of Mech. Engg.,
IIT Kanpur

Dr Smita Mohanty

Director, LARPM CIPET,
Bhubaneshwar

Prof Srikanth Bontha

Asso. Prof, Department of Mechanical
Engineering, NIT Surathkal

Mr Steve Chisholm

VP, Boeing Commercial Aircraft ,
USA

Mr Steve Yahata

VP, Boeing Research and
Technology, USA

Mr Suhaib Abdurahman

Wipro3D
Bengaluru

Dr T. Ram Prabhu

Scientist & Jt Dir, Centre for Military
Airworthiness and Certification

Dr Upadrasta Ramamurty

President's Chair Prof., School of Mech &
Aerospace Engg, NTU, Singapore

Dr Vidyashankar Buravalla

Principal Engineer,
GE Global Research

Sponsorship Opportunities

Benefits	Platinum	Gold	Silver	Bronze	Session
	INR 10,00,000	INR 7,50,000	INR 5,00,000	INR 3,00,000	INR 1,50,000
Conference Registration	15	8	5	3	2
Exhibition Space	✓	✓	✓	-	-
Logo on conference website, Brochure, Conference Backdrop	✓	✓	✓	✓	✓
Promotional material in conference kit	✓	✓	-	-	-
Logo at the Registration Desk	✓	✓	-	-	-
Logo at Gala Dinner	✓	✓	-	-	-
5 Min Presentation and Video Streaming at Gala Dinner	✓	-	-	-	-
Logo and mention during Promotional Emailers and Social Media Posts	✓	-	-	-	-
Advertisement in Conference Souvenir	1 Full Page	1 Half Page	1 Half Page	-	-

Exhibition Opportunities

Stall Space 3m x 3m

INR 1,00,000

Stall Space 5m x 5m

INR 1,80,000

Registration Fee

Category	Fee
Professional	INR 10,000
Faculty	INR 4,000
Student*	INR 2,000

*College / Institute id copy is required to confirm the registration

Registration fee includes:

- Access to all sessions
- Conference Souvenir
- Conference Content
- Lunches on 8th & 9th December
- Access to Exhibition Area
- Cultural program by MSRIT students

To register for this conference, please visit www.am3d.org.in/registration.php or scan the QR Code



Pre - Conference Workshop

Workshop-1: Manufacturing, Materials, Modeling for Metal Additive Manufacturing

- Basics of processing for Metal Additive Manufacturing (MAM)
- Importance of structure property correlations in materials
- Importance of modeling MAM
- Post processing & non-destructive evaluation in developing standards for certification

Dr Dheepa Srinivasan
Pratt & Whitney

Workshop-2: 3D Printing for Hobbyists

- Spin-off advantage of 3D Printing
- Simplification of fabrication
- Digital fabrication techniques
- Evolution of open-source, free to use hardware architectures and software tools
- Familiarize participants with the latest tools and software
- Emphasis will be laid on open-source tools for easy adoption.

Prof S Suryakumar
IIT Hyderabad

Workshop-3: Additive Thinking Workshop

- Operational knowledge on AM processes
- Workflow, data preparation, materials
- Additive engineering & QMS practices for Metal AM
- Details of Case studies derived from the AM pursuits

Yathiraj Kasal
Wipro3D

Workshop-4: Hands-on model building - Wright-Flyer static model

- Demystify Wright Flyer design and development
- Construction of a scale down Wright Flyer model
- Each participant/team (3 members) gets to build the model hands-on
- Model kit (wingspan 300 mm) will be provided

Ms. Ashwini JS
Airytails

Registration fee INR 500 + GST

Please visit <https://bit.ly/3U1s4D1> to register for the workshop

Scan the
QR Code



CONTACT

ASME INDIA PVT. LTD.

Jaya Jain

Business Head

TEC & Industry-Academia Program

M: +91 89295 91972

E: JainJ@asme.org

Jagpreet Singh

Manager

Key Accounts TEC

M: +91 99711 99814

E: SinghJ@asme.org

REGISTERED OFFICE:

573, 3rd Floor, Main road,
Chirag Delhi, Delhi 110017

COMMUNICATION ADDRESS:

335, Udyog Vihar, Phase - IV,
Gurgaon – 122015 (Haryana)