# 3rd ANNUAL WEBINAR ON FUTURE OF AERO GAS TURBINES AND PROPULSION SYSTEMS IN INDIA



**Registration is Free** Last date for Registration is 16th August 2024.

**Organised by** 



Design Division, The Aeronautical Society of India



Gas Turbine Research Establishment, DRDO



 **DIA-CoE**, **IIT** Bombay

**National Council for Air Breathing Engines** 

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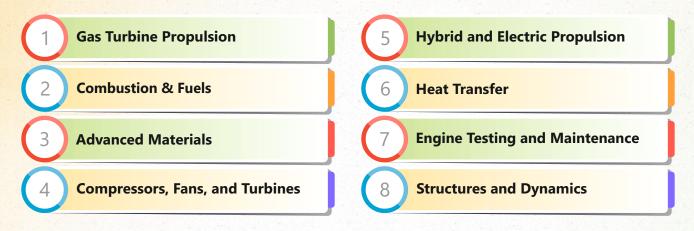
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## ABOUT THE WEBINAR 🖌

This is the third edition of the webinar on aero gas turbine engines and propulsion systems. Following the success of the first webinar (held on January 28th and 29th, 2022) and the second webinar (held on July 21st and 22nd, 2023) in virtual mode, the organising committee is excited to continue the initiative. The webinar will address a range of topics including large fighter aero-engines, small gas-turbine engines, and turbo-shaft engines. It will emphasize the technological requirements and the technology readiness levels necessary for the development of next-generation aero-engines in India. This event is being jointly organized by the Design Division of The Aeronautical Society of India (AeSI), Gas Turbine Research Establishment (GTRE), DRDO Industry Academia Centre of Excellence (DIA-CoE, IIT Bombay) and the National Council for Air Breathing Engines (NCABE), focusing on aerospace propulsion-related areas.

The key topics encompass, but are not limited to, the following areas:





## **Design Division, The Aeronautical Society of India**

The Design Division of AeSI at Bangalore is aimed at leading and elevating aerospace design professionals. This division promotes inter-organisational exchange of ideas, showcases professional contributions, and facilitates global networking. It also fosters learning through collaboration with industry experts ensuring continuous professional development and knowledge enhancement.

## Gas Turbine Research Establishment, DRDO

As one of the leading laboratories of the Defence Research & Development Organisation (DRDO) under the Ministry of Defence, Government of India, GTRE is primarily tasked with the design and development of aero gas-turbine engines for military applications. In addition, GTRE is engaged in specialised research on advanced aero gas-turbine technologies. GTRE is also responsible for establishing essential testing and prototype manufacturing facilities to enable full-scale engine development.





## DRDO Industry Academia Centre of Excellence (DIA-CoE), IIT Bombay

Established to achieve high international repute and stature among professionals, this centre is dedicated to developing futuristic propulsion technologies through cutting-edge research initiatives. It aims to collaborate with leading experts from academia and industries worldwide, addressing the technological challenges to bolster the country's defence sector.

## **National Council for Air Breathing Engines (NCABE)**

The National Council for Air Breathing Engines was established in 1992 as a trust to foster and stimulate R&D activities in aerospace propulsion within India. The trust organises and co-organises major technical events, such as NAPC, at various aerospace institutions across the country, attracting widespread participation from the Indian aerospace community. The NCABE trust also serves as India's counterpart to the International Society for Air Breathing Engines (ISABE).



## PROGRAMME SCHEDULE

## DAY 1 | FRIDAY, 23<sup>rd</sup> AUGUST 2024

09:00 AM		: Inaugural Session
Inauguration of Webinar : and Inaugural Address		of Webinar Dr. Samir V Kamat   Address Secretary, Dept. of Defence R&D and Chairman, DRDO
Keynote Ad	ldr	ess : Shri. M Z Siddique Distinguished Scientist, Director General (Aero), DRDO
SESSION 1	:	Advanced Engines, Hybridisation & Electrification of Aero Engines and Other Propulsion Systems
SESSION 2	:	Advanced Gas Turbine Design & Technologies
SESSION 3	:	Materials Innovation and Lightweight Structures for Aero Engines
SESSION 4	:	Stealth Technology for Aero-Engines
SESSION 5	:	Propulsion Research in Academic Institutions
SESSION 6	:	Panel Discussion: Emerging Trends in Electric Propulsion and Hybrid Mobility

## DAY 2 | SATURDAY, 24<sup>th</sup> AUGUST 2024

SESSION 7	:	Damage Tolerant Design
SESSION 8	:	Digital Twin Technology, AI, and Predictive Maintenance
SESSION 9	:	Advanced Manufacturing & Materials Technologies
SESSION 10	:	Design Optimisation for Gas Turbines
SESSION 11	:	Start-Up/MSME Efforts in Aerospace Propulsion
SESSION 12	:	Challenges in Aero-Gas Turbine Development, Maintenance, and Engine-Aircraft Integration
SESSION 13	:	Panel Discussion: Design & Development of LRUs for Propulsion Systems

For programme details, topics of discussion & speaker profiles Visit us at : www.aerosocietyindia.co.in/Events/UpcomingEvents

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**Dr. Samir V Kamat** 

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#### **CONTACT US**

**Dr Batchu Suresh** +91 9449071941 / 080-25040046 batchusuresh71@gmail.com

Prof. Vemana Venkateswara Rao +91 95500 01170

vemanavrao2005@gmail.com

Shri Vidyadheesh Pandurangi +91 9845667544 / 080-25040081 pandurangi.vr@gmail.com

#### PROFESSIONAL CONFERENCE ORGANISER

Mr. Thirupathi Atkapuram, CEM Director – Operations & Business Development thirupathi.atkapuram@meetyevents.com

#### Mr. Rahul Sai Avunoori

+91 7672037317 rahulsai.avunoori@meetyevents.com



**Meety Events Private Limited** 1-8-343, 1st Floor, MNJ Palace, IAL Colony, Begumpet, Hyderabad 500016 meetyevents.com

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