



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

**SAVE THE
DATES**

**23rd - 24th
AUGUST 2024**

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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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:

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| 1 Gas Turbine Propulsion | 5 Hybrid and Electric Propulsion |
| 2 Combustion & Fuels | 6 Heat Transfer |
| 3 Advanced Materials | 7 Engine Testing and Maintenance |
| 4 Compressors, Fans, and Turbines | 8 Structures and Dynamics |



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, 23rd AUGUST 2024

09:00 AM : Inaugural Session

Inauguration of Webinar and Inaugural Address : **Dr. Samir V Kamat**
Secretary, Dept. of Defence R&D and Chairman, DRDO

Keynote Address : **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, 24th 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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