

GAS TURBINE PROPULSION: INNOVATIONS AND EMERGING TECHNOLOGIES



27th February 2026

Organised By:

*The Aeronautical Society of India – Bangalore Branch,
in association with
Gas Turbine Research Establishment, and
M. S. Ramaiah University of Applied Sciences*

Venue:

*A-206, Ramaiah Technology Campus,
M. S. Ramaiah University of Applied Sciences,
Peenya Industrial Area, Peenya 4th Phase,
Bengaluru - 560058*

[Click here to Register](#)



Registration is free, but mandatory

PROGRAMME

Inaugural Session

Ramaiah Anthem and Welcome Address	09:30 AM to 09:35 AM
About AeSI - BB Student Seminar Series <i>Dr. Manjunath S. Dalbanjan, GTRE, & Hon. Sec, AeSI-BB</i>	09:35 AM to 09:40 AM
Keynote Address <i>Dr. S. V. Ramana Murty, Director, GTRE, & Chairman, AeSI-BB</i>	09:40 AM to 10:00 AM
Vote of Thanks and National Anthem	10:00 AM to 10:05 AM

Tea Break

10:05 AM to 10:30 AM

SESSION 1 : Gas Turbine Power Plants for Aircraft Propulsion

Gas Turbine Architectures: Turbojets to Geared Turbofans <i>Shri. Nagaraj Betageri, Engine Performance Group, GTRE</i>	10:30 AM to 11:00 AM
Understanding the Use of Hydrogen Fuel Cells to Generate Electricity That Drives Aircraft <i>Dr. Dinesh Kumar Roshan, Rolls - Royce</i>	11:00 AM to 11:30 AM

SESSION 2 : Axial and Centrifugal Compressors

Axial Compressor Technology: Design Innovations for Enhanced Performance <i>Dr. Nitin Balsaraf, Compressor Group, GTRE</i>	11:30 AM to 12:00 PM
Advances in Centrifugal Compressor Design: Performance and Stability Considerations <i>Prof. Raghuraman Govardhan, Indian Institute of Science</i>	12:00 PM to 12:30 PM

SESSION 3: Propeller Design and Technologies

Aircraft Propeller Technology: Design Innovations and Aerodynamic Performance <i>Shri. Prathap Nayaka, CSIR - National Aerospace Laboratories</i>	12:30 PM to 01:00 PM
Propeller Aerodynamics at Low Reynolds Numbers: Design Challenges and Solutions <i>Dr. M. Vijayakumar, Aeronautical Development Establishment</i>	01:00 PM to 01:30 PM

Lunch Break

01:30 PM to 2:30 PM

SESSION 4 : Gas Turbine Combustors

Aerodynamic Design of Diffusers and Swirlers for Gas Turbine Combustors

02:30 PM to 03:00 PM

Shri. Mukund Kumar Pandey, Combustion Group, GTRE

Fuel Injection Systems

03:00 PM to 03:30 PM

Dr. Surya Prakash R., IIT Dharwad

SESSION 5 : Gas Turbine Blades, Intake and Exhaust Systems

Thermal Management of Military Aero Gas Turbine Engine

03:30 PM to 04:00 PM

Dr. Batchu Suresh, Heat Transfer Group, GTRE

Aircraft Engine Intakes and Exhaust Nozzles: Design and Performance

04:00 PM to 04:30 PM

Dr. Aishwarjya Gogoi, Aeronautical Development Agency

High Tea

04:30 PM to 05:00 PM

STUDENT POSTER COMPETITION

Students can submit posters on topics relevant to Gas Turbine Engines. The posters can be prepared from their original research or consolidation of relevant literature.

- This competition is open only to the students who have registered for the Seminar.
- Posters must be prepared in A2 sheet.
- The posters shall be displayed by the participants during the Symposium.
- Pin-up boards will be provided by the organizers to display the posters.
- It is required to upload the poster in PDF format using the link provided.
- This link will be active till 24 February 2026.
- The winners will be selected by a Jury. The posters will be assessed for relevance to the technical content, originality, and creativity. The decision of the Jury will be final and binding.

[Click here to Submit](#)



Coordinators

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