



National Aerospace Propulsion Conference

Emerging Technologies and Systems in Aerospace Propulsion

About NAPC

NAPC-2025 is the fifth edition of this prestigious conference, dedicated to advancing the frontiers of aerospace propulsion. It brings together experts, researchers, startups and professionals from the propulsion community to share insights, discuss advancements, and foster collaboration.

About IITM & NCCRD

The Indian Institute of Technology Madras is known both nationally and internationally for excellence in technical education, basic and applied research, innovation, entrepreneurship and industrial consultancy. NCCRD, the largest academic combustion centre in the world, underlines the growing recognition of combustion and its importance for energy and environment. NCCRD develops state-of-the-art capabilities in combustion research and development involving experts in the country and to promote deep-tech start-ups in this field.

Scope

The NAPC-2025 serves as a unifying platform for the entire propulsion community, encompassing both air-breathing and non-air-breathing propulsion technologies. This conference provides an invaluable opportunity to showcase research and development activities, engage with peers, and cultivate future collaborations through networking.

Organized by,

National Centre for Combustion R&D (NCCRD), IIT Madras

&

Department of Aerospace Engineering, IIT Madras

Under the auspices of,

National Council for Air Breathing Engines (NCABE),

GTRE, Bangalore



Chief guest: Dr.Somnath S, Chairman ISRO

Key Highlights:

The conference agenda includes keynote presentations, technical sessions, and panel discussions, offering a dynamic environment for participants to delve into the latest advancements, address challenges, and explore opportunities within aerospace propulsion.

Session Titles:

The conference will cover a wide spectrum of topics in Current research topics in ISRO and DRDO, Subsonic Combustion, Supersonic Combustion, Gas Turbines, Turbo Machinery, Solid Propulsion, Liquid Propulsion, Hybrid Propulsion, Electric Propulsion, Propellants, Heat Transfer, Intakes and Nozzles, Sprays, Fuel Injection, Multiphase Flows, Research and development in propulsion related startup companies.

Networking Opportunities:

NAPC-2025 provides an ideal platform for networking with peers, researchers, startups and industry professionals. Engage in discussions, exchange ideas, and explore collaborative opportunities.

Committee members

Patrons:

- Prof. Kamakoti, Director, IIT Madras
- Dr. Somnath S, Chairman, ISRO & Secretary, Dept of Space
- Dr. Samir V Kamat, DRDO Chairman

National Advisory Committee:

- Prof. Manu Santhanam, Dean ICSR, IITM
- Prof. HSN Murthy, Head of the Department, IITM
- Dr. V Venkateswararao, DIA-COE, IIT Bombay
- Prof. S. R. Chakravarthy, IIT Madras
- Mr. U R Babu, DG MSS cluster
- Dr. K Rajalakshmi Menon, DG Aero cluster
- Dr. S V Ramanamurthy, Director, GTRE
- Shri. B V Papa Rao, Director ASL
- Shri. G A Srinivasa Murthy, Director, DRDL
- Dr. Unnikrishnan Nair, Director, VSSC, ISRO
- Dr. V. Narayanan, Director, LPSC, ISRO
- Shri. J Asir Packiaraj, Director, IPRC, ISRO
- Dr. Abhay A. Pashilkar, Director NAL
- Dr. D K Sunil, Chairman, HAL
- Dr. Srikantha Sharma, Exec. Director, HMA, HAL
- Prof. Raghunandan BN, Chairman NCABE
- Dr. B S Subash Chandran, Propulsion Panel, AR&DB
- G Sivaramakrishna, GTRE, General secretary NCABE
- Kishore Kumar, GTRE, Vice-Chairman NCABE
- Prof. A M Pradeep, IIT Bombay
- Lazar T. Chitilappilly, Visiting Faculty, Aero Dept, IITM
- Prof. Abhijit Kushari, IIT Kanpur
- Prof. Chetan Mistry, IIT KGP

Local Organising committee:

- Prof. T M Muruganandam, Aerospace Dept, IITM
- Prof. P A Ramakrishna, Aerospace Dept, IITM
- Dr. Nagabhushana Rao V, Aerospace Dept, IITM
- Dr. Amit Kumar, Aerospace Dept, IITM
- Prof. S R Chakravarthy, Aerospace Dept, IITM
- Dr. Pravendra Kumar, Aerospace Dept, IITM
- Mrs. Usha Nagarajan, COO, NCCRD, IITM
- Mr. Krishnakumar D, Senior Project Officer, NCCRD, IITM

Contact

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Startups:

As part of our commitment to innovation, we invite startups in the aerospace propulsion sector to showcase their cutting-edge technologies and contribute to the discourse. The conference enthusiastically welcomes startups in the propulsion sector to share their innovative ideas, technological solutions, and entrepreneurial insights. This provides an excellent platform for startups to interact with established professionals, gain exposure, and explore potential partnerships.

Important Dates

Abstract submission deadline	: 17th June 2024
Communication of abstract acceptance	: 10th July 2024
Submission of full-length paper	: 15th Sep 2024
Communication of full-paper acceptance	: 15th Nov 2024
Submission of camera-ready manuscript	: 15th Dec 2024

Sponsorship

Silver sponsor	: Rs. 1 Lakh*
Gold sponsor	: Rs. 2 Lakh*
Banquet sponsor	: Rs. 4 Lakh*
Platinum sponsor	: Rs. 5 Lakh*

*GST Extra

Registration Fee

Students	: Rs.5000*
Faculty	: Rs.12000*
Industry	: Rs.15000*

*GST Extra

