

About TAAI

The Trust for the Advancement of Aerodynamics in India (TAAI) is a pivotal organization established in 2008 with the objective of propelling research and development in aerodynamics across India. It is dedicated to advancing the understanding and application of computational, experimental and theoretical fluid dynamics, as well as multidisciplinary optimization and design of aerospace vehicles.

About Thiruvananthapuram

Thiruvananthapuram, the capital of Kerala, is a vibrant and culturally rich city located in the beautiful coastline along the Arabian Sea. It is renowned for its lush green landscapes, serene beaches, heritage institutions, and historic places of worship such as Sri Padmanabhaswamy Temple. The city seamlessly blends tradition and modernity, offering a harmonious mix of classical arts and architecture, with IT parks and educational institutions. Thiruvananthapuram also hosts a thriving ecosystem of scientific and technical institutions that contribute significantly to the state's intellectual and economic development. The Indian Space Research Organization (ISRO) has a strong presence in Thiruvananthapuram that includes Vikram Sarabhai Space Centre (VSSC), Liquid Propulsion Systems Centre (LPSC) and ISRO Inertial Systems Unit (IISU). Indian Institute of Space Science and Technology (IIST), Indian Institute of Science Education and Research (IISER). National Institute for Interdisciplinary Science and Technology (NIIST) are among the other world class institutions based in Thiruvananthapuram.

About VSSC

Vikram Sarabhai Space Centre (VSSC) is the lead centre of Indian Space Research Organization (ISRO) under the Department of Space (DOS), Government of India. The centre is located in Thiruvananthapuram, Kerala and is named in fond memory of Dr. Vikram A Sarabhai, a great visionary and father of the Indian Space Programme. VSSC pioneers in rocket research and launch vehicle projects of ISRO. The centre also pursues research and development activities in associated areas like propellants, solid propulsion technology, aerodynamics, aerostructures and aerothermodynamics, avionics, polymers and composites, guidance, control & simulation, computer science and information technology, mechanical engineering, aerospace mechanisms, vehicle integration and testing, space ordnance, chemicals and materials. Systems reliability and quality assurance of all aspects of engineering and operations are studied and evaluated to the required levels of perfection in each field.



VIKRAM SARABHAI SPACE CENTRE



1.2m TRISONIC WIND TUNNEL at VSSC

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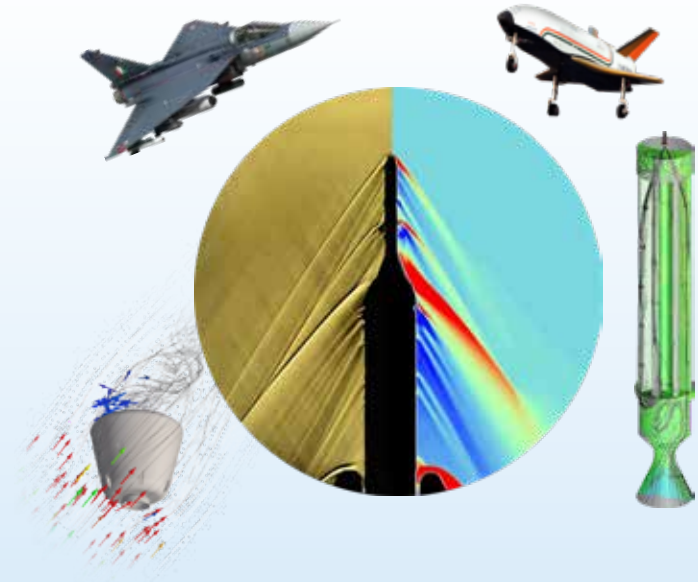
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10th Symposium on Applied Aerodynamics and Design of Aerospace Vehicles & SPICES Workshop



**Theme: Aerodynamics & Aerothermodynamics for
Human Rated & Autonomous Aerospace Vehicles**



Dates : **December 12th to 14th, 2024**
Venue : **Uday Samudra Leisure Beach Hotel**
Thiruvananthapuram

In association with



www.sarod2024.org

About SAROD 2024

Symposium on Applied Aerodynamics and Design of Aerospace Vehicles (SAROD) is a unique international conference which provides a platform to the aero and fluid dynamics community to exchange their thought process on the advancements and progresses made in the fields of aero and fluid dynamics. SAROD 2024 carries forward this legacy and aims to bring together leading aerodynamicists from India and around the world. The upcoming unmanned flight of Gaganyaan, the Indian human spaceflight adds fervour and excitement to SAROD 2024.

SPICES Workshop

SAROD 2024 will feature SPICES (Symposium for Promotion of Indigenous CFD for Engineering Sciences) which is the national CFD code validation workshop being conducted to promote indigenous CFD efforts. Considering the importance of hypersonic vehicle, this workshop will focus on a hypersonic air intake geometry and will be an opportunity for the CFD groups in the country to test the CFD prediction ability on the complex fluid dynamic problem.



Key Topics

- Aerodynamics of aerospace vehicles and missiles
- Aerothermodynamics of Human Space Missions
- Hypersonic and re-entry vehicle aerodynamics
- Air breathing propulsion and rotorcraft aerodynamics
- Aerospace vehicle design & multi-disciplinary optimization
- Wind tunnel testing, model design & fabrication, balance design
- Experimental aerodynamic diagnosis techniques
- CFD techniques, numerical methods, grid generation algorithms
- Aero thermal design, analysis and testing
- Internal fluid flows and testing techniques
- Fluid dynamics of advanced propulsive systems
- Applied flight mechanics and controls
- Aeroacoustics and unsteady aerodynamics
- Fluid Structure Interaction and aeroelasticity
- AI & ML in aerodynamic design, analysis and testing
- Flight dynamics, multi-body separation dynamics, parameter estimation, trajectory optimization, control and guidance
- Multi-phase flows, micro-fluidics and bio-fluid dynamics
- Special purpose testing: free flight, RTRS, ballistics range testing, plasma tunnel testing
- Launch vehicle spent stage recovery, retropropulsion, aerodynamic deceleration, vertical recovery and vertical landing

Registration

Delegate type	Early bird rate (Before 25 Nov. 2024)	After 25 Nov. 2024
Students	₹ 3000	₹ 3500
Indian delegates	₹ 7000	₹ 7500
Foreign delegates	\$ 250	\$ 300

**all the rates are inclusive of GST*

For registration, log on to www.sarod2024.org

Important Dates

Submission of extended abstract	August 15 th , 2024
Acceptance of extended abstract	September 20 th , 2024
Submission of Final Paper	November 1 st , 2024

The selected manuscripts will be considered for publication in the Scopus/Web of Science indexed conference proceedings/Special issues of reputed journals.

Sponsorship

Category	Amount	Privileges
Platinum	₹ 5,00,000	5 delegates, 10 min presentation, Exhibition stall, Cover page advertisement, Web page advertisement and logo display
Gold	₹ 3,00,000	3 delegates, 5 min presentation, Exhibition stall, Souvenir advertisement, Web page advertisement and logo display
Silver	₹ 2,00,000	2 delegates, Exhibition stall, Souvenir advertisement, Web page advertisement and logo display

**all the rates are inclusive of GST*

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Full page	₹ 50,000

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Recommended for
business ventures & startups

10 minutes	₹ 1,00,000
5 minutes	₹ 75,000

Exhibition

Exhibition Stall	₹ 75,000
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**all the rates are inclusive of GST*

Payment details

A/c name	SAROD 2024
A/c number	42977737520
Branch name	SBI THUMBA
IFSC	SBIN002279



QR code for UPI.

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