



National Seminar on Unmanned Aerial Vehicles

- Design to Deployment



June 11-12, 2026

Venue: SR Valluri Auditorium, CSIR-NAL, HAL Airport Road, Bangalore

Society of Indian Aerospace & defence Technologies & Industries (SIATI) along with CSIR-National Aerospace Laboratories (CSIR-NAL) with support from Hindustan Aeronautics Limited (HAL), Aeronautical Development Establishment (ADE) and Centre for Artificial Intelligence and Robotics (CAIR) have pleasure to invite you to this TWO - DAY Seminar.

UAV - Design-to-Deployment involves a structured engineering workflow: defining mission requirements, aerodynamic configuration design (fixed rotary or hybrid), flight simulation, control, prototyping, and optimizing the deployment algorithms for Military & Civil Applications.

Who should attend

UAV - Designers & Manufacturers of :

- Airframes
- Engines / Motors / Batteries
- Control Systems
- Communication / Data Link Systems
- Mission Systems
- Weapon Systems
- Testers & Certifiers
- Users / Operators & Academia

Topic Highlights

- UAV Programs in India
- SWARM UAVs
- UAV Propulsion
- Urban Air Mobility
- Civil UAV Applications
- Drone Technologies
- Certification of UAVs



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Dr. Parag Deshpande
Sr. Principal Scientist, CSIR-NAL

Mrs. Sangeetha AL
PRO, CSIR-NAL

For Further information please contact :

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Schedule: Day 1 : 11th June 2026

9:30 – 10:30 : Inaugural Session

Chief Guest



ACAS Ops (Remote)

Guest of Honour



Dr. Shivakumar Kalyanaraman
CEO, ANRF



Dr. C G Krishnadas Nair,
Founder & President Emeritus, SIATI



Dr. Abhay A Pashilkar,
Director, CSIR-NAL

11:00 – 13:00 : Technical Session 1 : UAV Programs in India

- SWIFT Program
- High Altitude Platforms
- Loitering Munition UAV Program
- Combat Air Teaming System (CATS) Program

Keynote Speaker



Shri. Y Dilip
Director, ADE

Speakers

- Dr. L. Venkatakrishnan, PGD HAP, CSIR-NAL
- Industry Talk
- Ms. Nisha, HAL

14:00 – 16:00 : Technical Session 2 : SWARM UAVs

- Swarm UAVs for collective intelligence - ISR Operations
- Communications systems for SWARM UAVs
- Robust GNC Algorithms for UAV SWARM operations
- Security Algorithms for UAV Communication

Keynote Speaker

Dr. Shubhashisa Sahoo
Sc F, CAIR

Speakers

- Sqn Ldr (Retd.) Sameer Joshi, CEO, NewSpace Research & Technologies
- Dr. Neeraj Kumar, Acrodyne
- Prof. Arnab Maity, IIT Bombay

16:15 – 17:15 : Panel Discussion – 1 : Advanced Air Mobility



Prof. Satya Chakravarthy
Founder, e-Plane



Mr. Rakesh Gaonkar
Co Founder & CTO,
Sarla Aviation



Shri. Madhu Sudana Sankar
JS MoCA



Dr. P Lathasree
Chief Scientist, CSIR-NAL

Schedule: Day 2 : 12th June 2026

9:30 – 11:00 : Technical Session 3 : Propulsion

- Kaveri engine of UCAV, KNL
- Electrical Propulsion
- Small IC / Turbine Engines for UAVs

Keynote Speaker



Dr. S V Ramana Murty
Director, GTRE

Speakers

- Mr. Varun , Nautical Wings
- Mr. KM Pillai, Chief Scientist, CSIR-NAL

11:15 – 13:15 : Technical Session 4 : Civil UAV Applications

- Drones in Precision Agriculture
- Drones in Medical emergencies, a requirement
- Unmanned Helicopters for logistics
- Business Session

Keynote Speaker



Dr. G K Patra
Director, CSIR-4PI

Speakers

- Dr. Sumit Aggarwal, ICMR
- Prof. Abhishek, IIT Kanpur
- Industry Representative

14:00 – 16:00 : Technical Session 5 : Drone Technologies

- GPS denied Navigation – Challenges and Solutions
- Anti Jamming
- Payload for ISR operations
- Lithium-Ion batteries indigenization efforts

Keynote Speakers



Prof. Suresh Sundaram
IISc, Bangalore



Prof. Amit Mehta
Swansea University, UK

Speakers

- Rep from TONBO Imaging
- Prof. Abhishek Sarkar, IIT Kanpur

16:15 – 17:15 : Panel Discussion –2 : Certification of UAVs

- Mr. Tarun Gogoi, Director (AE), DGCA
- Representative from QCI

- Dr. M Peter Arun, Sc'G', RD, RCMA(A/C), CEMILAC
- Mr. Jagadish, Head, QAAD, CSIR-NAL

Registration

Sponsorship : Gold / Silver : 3L / 2 L
Stall Booking : 9 Sq Mtr / 6 Sq Mtr- 40K / 30K
Participation : Rs. 4000 / Delegate
Rs. 2000 / Student
BANK DETAILS : SBI- HAL Branch
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IFSC – SBIN0001114

Click here for registration
<https://ncuav.nal.res.in/>