



AAV-2024

AUTONOMOUS AIR VEHICLES - TECHNOLOGIES & APPLICATIONS

Jointly organised by ADE-DRDO & Design Division-AeSI



DAY-1: 29 JAN 2024 (MONDAY) SESSION SCHEDULE

Inaugural Session 9:30 to 11:00	Inaugural Session Chief Guest : Dr. G Satheesh Reddy President, AeSI Former Secretary, Dept. Of Defence R&D, Former Chairman, DRDO Former SA to RM	
	Key note Address Challenges in the making of Autonomous Flying Wing UAV Shri Y Dilip, Director, ADE	
11:00 to 11:30	High Tea	
Session -1 UAV in Net-Centric warfare		
Session Chairperson	Shri SM Manjunath , Technology Director(MCS), ADE	
11:30 to 11:55	Dr Sumant Mukherjee, Sc-G, ISSA	Wargaming for Network Centric warfare
11:55 to 12:20	Shri Phani Kiran Maddukuri, Sc-E, DYSL-AT	Swarm of UAVs
12:20 to 12:45	Shri Manickam R, Sc-E, ADE	Simulation of Manned-Unmanned Teaming: A requirements overview
12:45 to 13:10	Prof. Dr. P Rajalakshmi, IIT Hyderabad	Collaborative Navigation of Drone Swarms
13:10 to 13:30	Session 1 Discussion	
13:30 to 14:30	Lunch	
Session-2 Stealth Technologies for UAV		
Session Chairperson	Dr S Sudharani , OS & Associate Director, ADE	
14:30 to 14:55	Dr. Vijay Kumar Sutrar, Sc-F, ADE	Advancement in Stealth Design of UAVs
14:55 to 15:20	Dr Nidhi Baranwal, NIT, Calicut	Aero engine IR signature suppression systems and their penalties
15:20 to 15:45	Dr R Nagarajan, Sc-G, DLJ	Stealth: Signature and Solution
15:45 to 16:00	Tea	
Session-3 Advancements in UAV Design and manufacturing technologies		
Session Chairperson	Dr. Patrick J Kennedy, OS & Associate Director, ADE	
16:00 to 16:25	Shri. Veluri Sudhakar, Sc-G, ADA	Diagnostics and Prognostics of Aircraft systems
16:25 to 16:50	Dr. Samiullah T H, Chief Scientist & Dy Head ACD, NAL	Just-in-time Prepreg (JIPREG) Facility
16:50 to 17:15	Shri. Lalan Singh, Ansys	Accelerating Design & Development of Aerospace vehicles using Advanced Technology
17:15 to 17:45	Session 02 & 03 Discussion	





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DAY-2: 30 JAN 2024 (TUESDAY) SESSION SCHEDULE

Session-4: Development of future UAVs		
Session Chairperson	Smt. Veena G Dikshit, Technology Director(FMCE), ADE	
9:30 to 09:55	Shri. Srikant Dudhe, HAL	Combat Air Teaming Systems (CATS)
09:55 to 10:20	Shri. Sudhakar, Deputy Director, URSC	NGCE systems and autonomous operations design for Chandrayaan 3
10:20 to 10:45	Dr. Suresh M, ADE	Autonomous Cooperative guidance and control strategy
10:45 to 11:10	Shri. Jambunathan G, Head of UAV & Aeronautics Business, L&T Defence Shri. Sunil Prasad, Head of Global delivery for Aerospace, Defence, Air transport & Rail Business, LTTS	Development of High speed UAV and it's role in future warfare Future of aviation with Autonomous technologies
11:10 to 11:30	Tea	
Session-5 Future Technologies for UAV		
Session Chairperson	Shri Vasanth Sastry, OS & Associate Director, ADE	
11:30 to 11:55	Prof Balakrishnan, IISc	CFD Technologies for Autonomous Air Vehicles
11:55 to 12:20	Shri LC Mangal, Director, DEAL	Software defined datalinks – enabling technology for next generation combat air platforms
12:20 to 12:45	Shri. G Umashankar, INDIA Sales Manager, NETVIBES	Transforming Digital Thread to Virtual Twin for UAV
12:45 to 13:15	Session 04 & 05 Discussion	
13:15 to 14:15	Lunch	
Session-6 Autonomous Technologies for UAV		
Session Chairperson	Smt. Asha Garg , OS & Associate Director, ADE	
14:15 to 14:40	Dr Vijay Patel, ADA	Automatic and autonomous functions for envelope protections in Tejas
14:40 to 15:05	Dr Muralikrishna, CAIR	Artificial Intelligence in unmanned vehicles
15:05 to 15:30	Prof Suresh Sundaram, IISc	Recent trends in AI for Autonomous Aerial Vehicles
15:30 to 15:45	Tea	
Session 7 : Panel Discussion & Concluding Session		
15:45 – 17:15	<ol style="list-style-type: none"> Indian eco system for Drones: Challenges and Way forward for development of drones and drone subsystems. Synergy between Civil & Military drone systems & technologies. 	
	Moderator	Dr. Kota Harinarayana, Chairman, DD-AeSI
	Members	<ol style="list-style-type: none"> Shri. Y Dilip, Director, ADE Dr Abhay Pashilkar, Director, CSIR-NAL Prof. Suresh Sundaram, IISc Shri. B H Laxmesh, VP, L&T Aerospace Gp Capt(Dr) RK Narang VM(Retd.), MPIDSA Prof. Abhishek, IITK





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