

International Conference cum Exhibition on “Aerospace & Aviation in 2047” on 18 - 19 November 2023, New Delhi	
Exhibition and Conference Inauguration Date & Time :18th November 2023	
9:30 to 11:30 Hrs	
Chief Guest	Hon’ble President of India
Guests of honour	Hon’ble Minister of Civil Aviation & Steel
	Hon’ble Minister of State (I/C) S&T, MoS PMO, MoS PPG&P, DoS & DAE
	Hon’ble Minister of State for Civil Aviation & MoS MoRTH
	Hon’ble MoS Defence & MoS Tourism
High Tea	
11:30 -12:00 Hrs	
Visionary Talks	
12:00 -14:15 Hrs	
Session Chair : Dr V K Saraswat, Hon’ble Member NITI Aayog	
1. Shri. S Somanath Chairman ISRO & Secretary, Dept of Space	
2. Dr. (Mrs.) N. Kalaiselvi Director General, CSIR & Secretary, DSIR	
3. Dr. Samir V Kamat Secretary Dept of Defence R&D & Chairman DRDO	
4. Air Marshal AP Singh PVSM AVSM Vice Chief of Air Staff	
5. Shri. Piyush Srivastava, IES Economic Advisor, Ministry of Civil Aviation	
6. Shri. C B Ananthakrishnan Chairman and Managing Director, HAL	
7. Shri. Banmali Agarwala Chairman-TATA Advanced Systems.	
8. Invited talk by Dr Vivek Lall , General Atomics, USA on ‘ New Frontiers with Unmanned Aerial Vehicles ’	
Lunch	
14:15 –15:00 Hrs	

Technical Sessions, Start-up Talks & Panel Discussion - Schedule

Day 01: 18/11/23, Saturday, 1500 – 1900 hrs

1500	Technical Session Introduction: MC		Talk No
1543 - 1630	Session 1 : Fighter Aircrafts, Engines & Helicopters Session Chair : Dr.Kota Harinarayana, Fr. PGD & Director, ADA		
	Vision for Next Generation Combat Aircraft	Dr Amitabh Saraf, OS Project Director (Navy Combat Aircrafts), ADA	1
	Sixth Generation Combat Air platforms / Propulsion Systems and Beyond	Dr Conrad Banks, Chief Engineer, Defence Future Programme, M/s Rolls Royce plc, United Kingdom	2
	Indigenous Aero Engines: Need of the hour	Dr S V Ramanamurty, OS Director, GTRE, DRDO	3
	Autonomous Helicopters	Shri Shridhar, GM, Rotary Wing Development Centre, HAL	4
16:30 17:00	Tea Break		
1700 - 1810	Session 2 : Space, Hypersonics & Missiles Session Chair : Prof B N Raghunandan, Emeritus Professor, IISc		
	Deep Space Ambitions of India : 2047	Shri. M Sankaran, DS Director, UR Rao Satellite Centre, Bengaluru	5
	Enigma of Hypersonic Flight	Prof G Jagadeesh Department of Aerospace Engineering, IISc, Bengaluru	6
	System Thinking on Space Policy	Prof Daniel L Dumbacher Executive Director, American Institute of Aeronautics & Astronautics, USA	7
1810 -1855	Session 3 : Start-ups – Space, Drones and AI & ML Session Chair : Dr. Subrato Rakhshit, DG TM, DRDO HQrs		
	Space	Shri. Srinath Ravichandran, CEO M/s Agnikul, Chennai	8
	Drones	Shri Vishal Saxena, VP M/s Idea Forge, Mumbai	9
	AI & ML	Shri. Abhinav Singhal, CEO M/s Oxygen-2 Innovation, Noida	10
18:55 19:00	Day's Summary		
2000	Networking Dinner by Invitation		

Day 01: 18/11/23, Saturday, 1500 hrs onwards

1500 hrs (Parallel Event)	Student Competition: Docking & Battery Swapping System (DoBaSS) for UAV Venue : Media Room, Yashoboomi Convention Centre, New Delhi		
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Day 02: 19/11/23, Sunday, 0930 – 1800 hrs

Time	Program		Talk No
9:30	Day's Announcement : MC		
0935 - 1040	Session 4 : HALE/MALE, Swarm UAV & Space Communication Session Chair : Prof Laxmidhar Behera, Director, IIT Mandi		
	Challenges in Future Air Dominance - Operational effect that you can trust	Mr. Jussi Halmetoja Senior Operations Advisor, Air Domain, M/s. SAAB, UK	11
	Satellite Constellations : Application scenario	Dr. Seshagiri Rao V Former Distinguished Scientist, SDSC- SHAR, ISRO	12
	Unmanned Aerial Vehicles : Technologies & Autonomy Challenges	Dr. Tarun Uppal Scientist F, ADE-DRDO	13
10:40	11:00	Tea break	
11:00 -11:43	Session 5 : Avionics, Multi-Sensor Data Fusion (MSDF) & Robotics Session Chair : Prof PM Soundar Rajan, NIAS, Bengaluru		
	Multi Sensor Data Fusion (MSDF) with AI & Robotics and ML Technology – Game Changer	Mr. Frank Kessler Head Sales Spectrum Dominance, M/s Hensoldt Sensors, GmbH	14
	The transformative impact of AI, and machine learning on avionics	Shri. Adishesha CS Sr. Technical Fellow, (System Engineering) & Director Technology, M/s Collins Aerospace, India	15
1143 -1230	Avionics Revolution : Air Dominance - 2047 & Beyond	Mrs. Ida Roos Operations Manager, Avionics Systems, Gripen E/F M/s. SAAB, UK	16
	Exploring cutting-edge technologies in robotics	Dr. Murali Krishna Scientist F, CAIR-DRDO	17
1230 -1315	Session 6 : Materials & Manufacturing Session Chair : Shri M Mohan, Director, Human Space Flight Centre, ISRO		
	Additive Manufacturing	Dr. Rajendra Kelkar Sr Technologist, GE Additive M/s. GE, Cincinnati, USA	18
	Advanced Aerospace Materials	Dr. Dipak Kumar Das, OS Associate Director, DMRL	19
13:15	14:00	Lunch	

Time	Program	Talk No	
1400 - 1530	Session 7 : Civil Aviation & Green Initiatives Session Chair : Dr Abhay Anant Pashilkar, Director, NAL, CSIR		
	Civil Aviation Infrastructure, Aircrafts, MRO & Harnessing HR potential for future	Shri. Sanjeev Kumar, IAS Chairman, Airports Authority of India	20
	RICE : Propulsion Initiatives for Aviation Decarbonisation	Dr. Virendra Sharma Chief Engineer, Future Engine Program, M/s. SAE, France	21
	Green Aircraft with Sustainable Aviation Fuel : Current & Road Ahead	Prof Suresh Sampath Head of GT Systems Engineering & Operations Group, Centre for Propulsion and Thermal Power Engineering, Cranfield University, UK	22
	Technology gaps to develop an Indigenous Civil Transport : Road Map & Milestones	Dr. CM Ananda Chief Scientist & Programme Director (Civil Aircraft Projects), CSIR - NAL	23
15:30	16:00	Tea Break	
16:00	16:15	Prize distribution for Student Poster Participants & Winner Prize distribution for DoBaSS Competition Winner	
16:15 - 17:55	<u>Valedictory Programme</u>		
	Panel Discussion Topic : Building Ecosystem Towards Global Leadership in Aero Industry		
	Session Chair : Dr. V K Saraswat, Hon'ble Member, Niti Aayog Session Co-Chair : Air Chief Marshal VR Chaudhari PVSM AVSM VM ADC Chief of Air Staff		
	Opening remarks & Panel Speaker Introduction		
	1. Dr. Girish Deodhare, DS Fr. DG ADA	5. Shri. Maneck E Behramkamdin, Sr. VP & Business Head, Godrej & Boyce	
	2. Dr. SK Jha, CMD Midhani	6. Mr. Raveeswaran, Head, Mahindra Aerospace	
	3. Mrs. Athula Devi DD, Avionics, VSSC-ISRO	7. Shri. Arun Ramchandani, Executive Vice President, L&T Aerospace & Defence Ltd	
	4. Shri. Sameer Joshi, New Space Research Tech Pvt Ltd (Start-up)	8. Dr. Sivaram Gogineni, M/s Spectral Energies, USA	
	Remarks by each panelist		
	Open house		
Address by Air Chief Marshal VR Chaudhari, PVSM AVSM VM ADC, Chief of Air Staff			
Closing Remarks by Dr. V K Saraswat, Hon'ble Member, Niti Aayog			
Felicitation for all participants			
17:55 - 18:00	Conference Closure		