



Antrix Corporation
Limited



Indian Space
Research Organisation



Confederation of Indian Industry

International Space Conference and Exhibition 2021

13-15 September 2021 | Over Digital Platform

DAY 3 – 15 September 2021

Session – 1

1400 - 1515 Hrs	Increasing Global Partnership in Space Sector : Explore as One
<p>India has emerged as one of the most successful nations to have capacity to develop satellites for services and interstellar missions. ISRO is known for achieving its goals in a cost effective and time-efficient manner. We have so far had a total of 82 launch missions carrying 123 Indian spacecrafts and 342 foreign space crafts from 34 countries. Keeping in mind the growing market demand and planned missions in future, ISRO has been increasing global partnership in space explorations and innovation with International Space Agencies. NEED TO WRITE ABOUT COLLOBORATIVE MISSIONS LIKE NISAR, HOSTED PAYLOADS, ETC.</p> <p>The session would focus on the following:</p> <ul style="list-style-type: none"> ➤ Why there is need for India to enhance its partnerships with international space agencies? ➤ Potential areas where Indian space agencies can collaborate globally? ➤ Opportunities and challenges in global collaborations and possible solutions? ➤ Role of policies and reform related to space in opening up India to the world? 	
Session Chairperson	S Somanath, Director, VSSC
Panelists	M Sankaran, Director, URSC Narayan Prasad, COO, Satsearch.co NL Shaju Stephen, Chairman and Managing Director, Aadyah Aerospace Nitish K. Singh Co-founder & CEO, Astrogate Labs Guler Kocak, Founder & CEO, SPACELIS James Palmer, Founder, Space Centre Australia Arfan Chaudhry, International Director, UK Space Agency National Space Agency, Taiwan



Antrix Corporation
Limited



Indian Space
Research Organisation



Confederation of Indian Industry

International Space Conference and Exhibition 2021

13-15 September 2021 | Over Digital Platform

DAY 3 – 15 September 2021

Session – 2

1530 - 1645 Hrs	Highlight Session: <i>Human Spaceflight and Space Exploration Missions</i>
<p>To date, Russia, the United States, and China are the only countries with public or commercial human spaceflight-capable programs. Non-governmental spaceflight companies like SpaceX, Virgin Galactic have been working to develop human space programs of their own, e.g. for space tourism or commercial in-space research. Now, with the announcement of Gaganyaan mission, the first crewed flight mission on a home-grown GSLV-III rocket, India has become a 4th significant participant to conduct independent human spaceflight.</p>	
<p>There are several space exploration missions conducted by India which has made India a prominent space technology player globally. Major space exploration missions of Indian space programme include Mars Orbiter Mission (MOM) : ISRO's first interplanetary mission to planet Mars with an orbiter craft designed to orbit Mars, Chandrayaan-1 : India's first mission to Moon and Chandrayaan-2 : An advanced version of the Chandrayaan-1 mission. ISRO has also planned several missions in the near future such as Gaganyaan, Aditya-L1 : First Indian Solar Coronagraph spacecraft mission to study solar corona in visible and near IR bands, Chandrayaan-3 : Mission repeat of Chandrayaan-2 with lander, rover and a propulsion module to attempt soft landing of lunar surface. All of these missions are expected to be launched by 2022. Space exploration helps to address fundamental questions about our place in the Universe and the history of our solar system. Humans are driven to explore the unknown, discover new worlds, push the boundaries of our scientific and technical limits, and then push further.</p>	
Session Chairperson	Unnikrishnan Nair S (Dr), Director, HSFC, ISRO
Panelists	P Sreekumar (Dr), Former Director, SSPO, ISRO
	UK Singh (Dr), Director General, Life support systems, DRDO, Delhi
	KG Vinod, Project Director, ECLSS, HSFC, ISRO
	VT Basker, Project Director, GSLV MkIII, VSSC, ISRO
	Pavan G. Ranga, CMD, Rangsons Aerospace Pvt Ltd, Mysore
	R Kumar (Dr), Scientist DRDO, Defence Food Research Laboratory Mysore India
	Ranganathan Sadashiva, CTO – Hybrid IT, HPE India



Antrix Corporation
Limited



Indian Space
Research Organisation



Confederation of Indian Industry

International Space Conference and Exhibition 2021

13-15 September 2021 | Over Digital Platform

DAY 3 – 15 September 2021

Session – 3

1700 - 1815 Hrs	Can India be the hub for Space manufacturing?
<p>India has made remarkable strides by indigenisation of launch vehicle and satellite technologies. Over the last few years, ISRO has been successfully indigenising current space technology and 70 - 90% of its launch vehicles, navigation and communication satellites. ISRO has planned many space missions of national importance in the near future. The launch vehicles and satellites use various critical materials and components which are essential for space missions. While many Indian industries are supplying majority of the materials, few critical materials and electronics components and packages are still being imported. The space agency has been collaborating with industries in India to produce electronics as well as systems for its satellites and also encouraging Indian industry to form consortium to invest and produce the components and packages. This session shall bring together industry stalwarts and new entrants as they give a detailed look in to the indigenization of satellites and space components; their expectation and challenges; opportunities available for Indian industries and how industry can use this; and their plans going forward.</p>	
<p>Session Chairperson</p>	<p>Dr PV Venkitakrishnan, Satish Dhawan Prof, ISRO</p>
<p>Panelists</p>	<p>Sathyan Subbiah, Coordinator, Extra Terrestrial Manufacturing Research Group IIT Madras</p> <p>Laxmesh BH, Head – Missiles & Aerospace Business, Larsen & Toubro</p> <p>M.V. Reddy, JMD , Astra Microwave Products Ltd</p> <p>Tom Segert, Director, Azista BST Aerospace India</p> <p>K. Soundhar Rajhan, Director – Operations, Lakshmi Machine Works Ltd.</p> <p>Dhiraj V Keskar, Head - Aerospace & Missiles Business, Walchandnagar Industries Limited</p> <p>Vinod Chippalkatti, President, Strategic Electronics BU, Centum Group</p> <p>Bert Monna, CEO, Hyperion Technologies</p>