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INDIA SPACE CONGRESS 2023

PROGRAMME

‘Leveraging Space to Power Next-Gen Communications & Businesses’



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Start	End	Dur	Day 1: 10th July 2023, Monday Hotel Hyatt Regency, New Delhi			
08:30	09:00	00:30	Delegate Registration			
09:00	11:30	02:30	<p align="center">Inaugural Session at OVEL</p> <p>Welcome Address: Dr Subba Rao Pavuluri, CMD Ananth Technologies and President SIA-India Thematic Address: Dr Shailesh Nayak, Director NIAS, Former Secretary MoES, Govt of India Keynote address: Top drivers and speed breakers of Space Economy - Mr Nathan de Ruiter, Managing Director, Euroconsult Special Address: Mr Alex MacDonald, Chief Economist, NASA Special Address: Ms Gunjan Dave, Member (Technology) DCC, DOT Special Address: Shri S Somanath, Secretary DOS and Chairman, ISRO Inaugural Address (Chief Guest): Shri Bandaru Dattatraya, His Excellency the Governor of Haryana Vote of Thanks: Shri Anil Prakash, Director General, SIA-India</p>			
11:30	12:00	00:30	Networking Tea Break			
Tracks			Track 1 – OVAL	Track 2 – RBR 1	Track 3 – RBR 2	Track 4 – RBR 3
12:00	13:20	01:20	<p align="center">India Space Policy – A watershed moment</p> <p>The India Space Policy 2023 marks a watershed moment in India’s space sector. The comprehensive policy framework emphasizes the importance of commercialisation, private sector participation, and technology transfer, creating a conducive environment for startups and businesses to thrive.</p> <p>Chair: Dr P. K. Jain, Director PMAD, IN-SPACE Moderator: Prof. Chaitanya Giri, Associate Professor, FLAME University, Editor, Interstellar_Go & Consultant RIS</p>	<p align="center">Satellites for Effective Disaster Risk Reduction</p> <p>The number of disasters is increasing globally at an exponential rate, both in frequency and intensity, even under the most conservative forecast. The loss of life and property can be significantly minimized with satellite intelligence and communication for disaster prevention, impact mitigation and first responder role.</p> <p>Chair & Moderator: Lt. Gen. PJS Pannu PVSM, AVSM, VSM (Retd) Former Deputy Chief, Integrated Defence Staff (Operations) Special Address: Dr KHV Durga Rao, Group Director DMSG, NRSC, ISRO</p>	<p align="center">Satellite Mobile Convergence</p> <p>The merging of terrestrial and Non-Terrestrial Network (NTN) technologies expands coverage, enhances connectivity, increases capacity, and improves user experiences. It bridges the digital divide, supports emerging technologies, and ensures uninterrupted connectivity for users in all areas, urban or remote, creating a more inclusive and connected world.</p> <p>Chair: Dr Mike Short CBE, Chief Architect, Satellite Applications Catapult Keynote & Moderator: Ms Isabelle Mauro Director General, GSOA</p>	<p align="center">Above the Karman line – Leveraging Microgravity</p> <p>The increasing affordability of accessing microgravity beyond the Kármán line opens exciting prospects in research and new space-based business ventures in material science, pharmaceuticals, biotechnology, and fundamental physics, in unique conditions not possible on Earth.</p> <p>Chair: Mr Xavier Raja, Deputy Director, ISRO Moderator: Prof Sathyan S, IIT Madras</p>

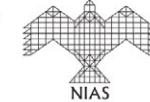


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Start	End	Dur	Day 1: 10th July 2023, Monday Hotel Hyatt Regency, New Delhi			
			Speakers: <ul style="list-style-type: none"> ❖ Mr Shivaji Chatterjee, Executive Vice President, Hughes Communications India Pvt. Ltd ❖ Capt. Vishal Kanwar, Executive Director, PwC India ❖ Mr Abhishek Malhotra, Managing Partner, TMT Law Practice ❖ Mr Sherille Ismail, Associate General Counsel, Intelsat ❖ Mr Kaushik Moitra, Partner, Bharucha & Partners ❖ Ms Seema Jhingan, Senior Partner & Co-founder, LexCounsel ❖ Mr Sreeram Ananthasayanam, Partner, Deloitte India 	Speakers: <ul style="list-style-type: none"> ❖ Mr Sanjay Agrawal, DDC (DM), Dept of Telecom ❖ Maj Gen Sudhir Bahl (Retd), Senior Consultant (ME & IRS), NDMA ❖ Suyash Singh, Co-founder & CEO, GalaxEye Space ❖ Mr Stephane Chenard, Senior Consultant, Euroconsult ❖ Maj. Rama Sundeeep N (Retd), Co-founder & COO, Astroborne Space and Defence Technologies Pvt Ltd 	Speakers: <ul style="list-style-type: none"> ❖ Ms Isabelle Mauro Director General, GSOA ❖ Mr. Cristian Gomez, Senior Director, ViaSat ❖ Mr Sagar Darbari, Partner, Deloitte India ❖ Mr Prabhat Kumar Sahoo, Centre Head, Hughes Systique Corporation ❖ Mr Bharat Bhatia, President, ITU-APT Foundation, Vice Chairman World Wireless Research Forum ❖ Mr Hazem Moakkit, VP-Spectrum Strategy, Intelsat 	Speakers: <ul style="list-style-type: none"> ❖ Mr Kohei Yoshioka, Co-CEO & CFO, IDDK Co., Ltd ❖ Mr George Weinmann, Sr, Director, Blue Origin ❖ Mr Ajay Kumar, Founder & CEO, Vellon Space ❖ Mr Sebastian Klaus, CEO, Klaus Space Transportation GmbH ❖ Mr Manish Amin, Director, Avay Biosciences
13:20	14:30	01:10	Networking Lunch Break			
14:30	15:50	01:20	Start-up journeys from ideas to developing a space business. Start-ups that have successfully developed a space business offer valuable insights for aspiring entrepreneurs. Key learnings include focusing on a specific problem or market, collaborating with others, leveraging government support, being adaptable and persistent, and building a strong team.	Satellite Applications for Smart Governance Satellites can play a role in urban governance by providing data and information for Urban planning and land use management, Traffic management and transportation planning, Environmental monitoring and management, Emergency management and disaster response, and monitoring and tracking urban growth and development.	Direct to Device With advancements in technology, direct-to-handset satellite communication is going to become more affordable and accessible, making it an increasingly popular solution for reliable communication in challenging environments. A discussion with the enablers.	The Quantum Leap Quantum communications and cryptography are poised to revolutionize the satellite industry, offering faster, more secure communication links, and enhanced data protection. With advancing technology, quantum technologies are expected to become more widespread in the satellite sector, meeting the rising need for secure and efficient communications.

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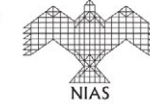
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			<p>Chair: Mr DS Govindrajan, President, Aniana Communications & Executive Board Member, SIA-India</p> <p>Moderator: Dr Susmita Mohanty, Director General, Spaceport SARABHAI</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Awais Ahmad, Founder & CEO, Pixxel ❖ Mr Sakthikumar R, Founder & CEO, OrbitAID Aerospace Pvt Ltd ❖ Mr Nitish K Singh, Co-founder & CEO, Astrogate Labs ❖ Mr Tushar Jadhav, Co-Founder, Manatsu Space ❖ Ms Abhilasha Purwar, Founder & CEO, Blue Sky Analytics ❖ Mr Manu J Nair, Co-Founder & CEO, EtherealX ❖ Mr Raghav Handa, Director, Strategic Business Development, & Govt. Relations HSBC 	<p>Chair: Shri Dharmendra, IAS Chief Secretary Govt. of Arunachal Pradesh</p> <p>Moderator: Dr Sultan Singh, Director, Haryana Space Applications Centre (HARSAC)</p> <p>Keynote: Mr Partha Pratim Ghosh, Presales Head, India & South Asia, Planet</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Dr S C Jayanthi, Group Director, USAG, NRSC, ISRO ❖ Prof (Dr) Purvi Pokhariyal, Director, NFSU, MHA ❖ Mr Partha Pratim Ghosh, Presales Head, India & South Asia, Planet ❖ Ms Niharikka Puri, Associate Director, PwC India 	<p>Chair: Mr H Rayappa, Director, Satcom PO, ISRO-HQ</p> <p>Moderator: Mr. Jeremy Rose, Partner, Comsys UK</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Vivek Kimbahune, Executive Vice President, Saankhya Labs ❖ Mr Sathya Narayanaswamy, Vice President India, Viasat ❖ Mr Alexander Jeuck, ICT and SpaceTech Professional 	<p>Chair: Prof Urbasi Sinha, Head-Quantum Information and Computing (QuIC) Lab, Raman Research Institute</p> <p>Moderator: Ms Reena Dayal, CEO, Quantum Ecosystems and Technology Council of India</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Pankaj Kumar Gupta, Head, QEPD, ISRO ❖ Dr Rohini Srivathsa, National Technology Officer, Microsoft ❖ Dr Anindita Banerjee, Adjunct Scientist Corporate R&D, C-DAC ❖ Mr Dilip Singh, CTO, Qunu Labs
15:50	16:20	00:30	Networking Tea Break			

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Start	End	Dur	Day 1: 10th July 2023, Monday Hotel Hyatt Regency, New Delhi
16:20	17:20	01:00	<p align="center">Improving Agriculture yield and farmer incomes (at OVAL)</p> <p>EO plays a significant role in improving agricultural efficiency for both traditional and marine agriculture. In India, where the sector employs 45% of the workforce and contributes 20% to GDP, optimizing practices is crucial. The panel explores ways to catalyse the agricultural sector using satellite data, considering the unique needs and potential of both traditional and marine agriculture to improve yield and farmer incomes.</p> <p>Chair & Moderator: Dr V M Chowdary, Group Director (Agricultural Sciences & Applications Group), NRSC, ISRO</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Ms Devleena Bhattacharjee, Founder & CEO, Numer8 Analytics Pvt. Ltd. ❖ Mr Nipun Agarwal, Director, PwC India ❖ Mr. Gagan Agrawal, Founder and Investor, CI Metrics ❖ Mr. Jatin Singh, Founder & MD, Skymet Weather Services Pvt Ltd
17:20	18:00	00:40	<p align="center">Closing Plenary</p> <p>Keynote: Mini GEO Communication Satellite – Mr Shmuel Akler, Director, Communication Satellites, MBT Space Division, Israel Aerospace Industries, Ltd. (IAI)</p> <p>Valedictory Address: Dr Shailesh Nayak, Director, NIAS & Former Secretary, MoES, Govt of India</p>
End of Day 1 of the Conference and Expo			



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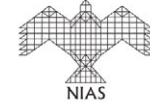
Start	End	Dur	Day 2: 11th July 2023, Tuesday Hotel Hyatt Regency, New Delhi			
08:30	09:00	00:30	Delegate Registration			
09:00	10:30	01:30	<p align="center">Inaugural Session at Oval</p> <p>Welcome Address: Dr Subba Rao Pavuluri, CMD Ananth Technologies & President, SIA-India</p> <p>Keynote Address: International efforts for Debris Mitigation and keeping Space Sustainable. - Mr Thomas Bleeker, Head International Relations, Netherlands Space Office</p> <p>Special Address (Special Guest of Honour): Dr VK Saraswat, Hon’ble Member, NITI Aayog</p> <p>Inaugural Address (Chief Guest): Lt. Gen. Gurmit Singh, PVSM, UYSM, AVSM, VSM (Retd.), His Excellency the Governor of Uttarakhand</p> <p>Vote of Thanks: Shri Anil Prakash, Director General, SIA-India</p>			
Tracks			Track 1 – OVAL	Track 2 – RBR 1	Track 3 – RBR 2	Track 4 – RBR 3
10:30	11:30	01:00	<p>Breaking Barriers, Inspiring Futures: Women in Space</p> <p>This panel brings together accomplished women from diverse backgrounds within the space industry, including scientists, engineers, astronauts, and entrepreneurs. They share their experiences, challenges, and successes, highlighting their pivotal roles in shaping the future of space exploration.</p> <p>Chair: Dr N. Ranjana, Director, Directorate of Systems and Technology Analysis (DSTA), DRDO</p> <p>Moderator: Dr Susmita Mohanty, Director General, Spaceport SARABHAI</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Ms Isabelle Mauro Director General, GSOA 	<p>Satellites for SDGs</p> <p>Space technology can contribute significantly to achieving sustainable development goals (SDGs). Satellites can help monitor and mitigate climate change, support sustainable urban planning, identify areas with high potential for renewable energy, protect biodiversity, and provide education to underserved communities.</p> <p>Chair & Moderator: Dr Sudheer Kumar, Director, CBPO, ISRO-HQ</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Stephane Chenard, Senior Associate Consultant, Euroconsult ❖ Gp Capt Arvind Pandey (Retd), Senior Fellow, Geospatial Intelligence in Military Operations, Centre for Air Power Studies (CAPS) 	<p>Optical links for Satellite communications</p> <p>The potential benefits of optical Satcom make it a promising technology for revolutionizing satellite communication systems, particularly in applications such as space-based internet connectivity, earth observation, and remote sensing. As technology continues to advance, optical Satcom will likely become increasingly prevalent in the satellite communication industry.</p> <p>Chair & Moderator: Mr Jeremy Rose, Partner, Comsys UK</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Hirokazu MORI, CEO, WARPSPACE USA Inc. 	<p>OSAM: Transforming Space Operations and Exploration</p> <p>With the ability to service, transport, refuel, de-orbit and even assemble & manufacture spacecraft and structures in orbit. On-orbit Servicing, Assembly, and Manufacturing (OSAM) revolutionize space operations, extending capabilities and opening new possibilities driving innovation and sustainability, and expanding our reach beyond Earth.</p> <p>Chair & Moderator: Dr Joji Chaman, Deputy Director, Spacecraft Inertial Systems, IISU, VSSC</p> <p>Keynote: Mr Thomas Carroll, Manager, Business Development, Space Logistics</p>



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Start	End	Dur	Day 2: 11th July 2023, Tuesday Hotel Hyatt Regency, New Delhi			
			<ul style="list-style-type: none"> ❖ Ms Laura Roberti, Director of Licensing and Market Access, Telesat Canada ❖ Ms Nidhi Vasaikar, APAC Regional Partnerships Manager, Space Generation Advisory Council (SGAC) ❖ Ms Devleena Bhattacharjee, Founder, Numer8 Analytics 	<ul style="list-style-type: none"> ❖ Mr Abhishek Krishnan, Chief of Staff, Pixxel ❖ Ms Dechacca Ponappa, Business Development, Aerospace and Satellite Services, AWS 	<ul style="list-style-type: none"> ❖ Mr Pranav Kumar Pandey, Head, Optical Communication System Division, SAC ❖ Mr Nitish Kumar Singh, Co-founder & CEO, Astrogate Labs 	<p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Thomas Carroll, Manager, Business Development Space Logistics LLC ❖ Mr Sakthikumar R, Founder & CEO, OrbitAID Aerospace Pvt Ltd ❖ Mr Navin Gopal, Vice President of Strategy & Business Analysis, Astroscale
11:30	12:00	00:30	Networking Tea Break			
12:00	13:20	01:20	<p>Industrialisation of India’s Space Capabilities</p> <p>With a focus on indigenous manufacturing and technology development, India is building a robust ecosystem of industries and companies that contribute to space missions. This not only strengthens India’s space program but also creates employment opportunities, fosters innovation, and drives economic growth.</p> <p>Chair & Moderator: Dr V.S. Hegde, Fmr CMD, Antrix Corporation Ltd and Fmr Scientific Secretary, ISRO</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Dr Subba Rao Pavuluri, CMD Ananth Technologies 	<p>Fintech, Insurance and inclusion</p> <p>Satellite applications are playing a significant role in driving innovation and inclusion in the fields of Fintech, Insurance, and financial inclusion. Satellite-based Earth observation data helps assess risks, manage assets, and improve insurance coverage. How can satellite data, with a wide field of view, be used to further fintech and insurance industries?</p> <p>Chair & Moderator: Mr Stephane Chenard, Senior Associate Consultant, Euroconsult</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Pushan Sharma, Director at CRISIL Limited 	<p>Satellite IoT - Playing to its potential.</p> <p>There is a long list of challenges, technical, standards and business models standing in the way of growth opportunities presented by the broad range of still largely unconnected application areas. Satellites with their ubiquitous coverage are a natural fit to serve these markets.</p> <p>Chair & Moderator: Mr Nathan De Ruiter, Managing Director, Euroconsult</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Alexander Jeuck, General Manager, ICT & SpaceTech International ❖ Mr Gaurav Kharod, Regional Vice President, Asia-Pacific, Intelsat ❖ Mr Jassem Nasser, Chief Business Development Officer, Thuraya 	<p>Innovation in Spacecraft Design and Manufacturing</p> <p>Cutting-edge technologies, materials, and manufacturing processes are revolutionizing the way spacecraft are built, making them lighter, more efficient, and capable of achieving ambitious missions. As the industry continues to push boundaries, spacecraft design and manufacturing will play a critical role in shaping the future of space exploration and utilization.</p> <p>Chair & Moderator: Mr Rajiv Sinha, Group Director, TSTG, IISU, VSSC</p> <p>Keynote: Mr Gurvinder Chohan CEO & Founder QSTC</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Gurvinder Chohan CEO & Founder QSTC



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			<ul style="list-style-type: none"> ❖ Mr Laxmesh BH, Vice President & Head - Missiles & Aerospace Business, L&T Defence ❖ Mr Krishna Reddy, Marketing Manager, SatSure ❖ Mr Samit Ray, Regional Director, Govt Affairs & Public Policy, South Asia 	<ul style="list-style-type: none"> ❖ Mr Amit Salunkhe, Head of Sales, SatSure Sage ❖ Mr Kamal Mirg, SVP, RCH, HDFC Bank 	<ul style="list-style-type: none"> ❖ Mr Punit Goel, Systems Design Engineer, Hughes Systique ❖ Mr. Ajay Jain, CEO, Lamhas Satellite Services Ltd 	<ul style="list-style-type: none"> ❖ Mr Suyash Singh, CEO & Co-founder, Galaxeye
13:20	14:30	01:10	Networking Lunch Break			
14:30	15:50	01:20	<p>Fundraising, SPACs and M&As – Scaling space business</p> <p>Even as the pace of innovation picks up, barriers remain and access to finance can be limited, in part due to a lack of understanding about the dynamics of space business and its intended returns. A discussion that spotlights the fund-raising efforts of the new space entrepreneurs for innovation, productization and scaling including best practices, and how to align with the financier’s investment objective to overcome her risk aversion.</p> <p>Chair & Moderator: Mr DS Govindrajan President, Anira Communications</p> <p>Keynote: Mr Ankit Anand, Founding Partner, Riceberg Ventures</p>	<p>Demystifying Earth Observation: A Multi-Billion Dollar Market</p> <p>The earth observation economy.</p> <p>Chair & Moderator: Lt. Gen (Dr) AKS Chandele, President-Defence, Internal Security & Public Safety, Geospatial World</p> <p>Keynote: Capt Vishal Kanwar, Executive Director, PwC India</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Arpan Sahoo, COO, KaleidEO, ❖ Lt. Col Amandeep Singh, Spatial Domain Expert and Author ❖ Mr Gagan Agrawal, Founder and Investor, CI- Metrics ❖ Capt Vishal Kanwar, Executive Director, PwC India 	<p>Opportunities from Multi Orbit Satellite Broadband</p> <p>By leveraging satellites in multiple orbits, the technology offers enhanced coverage, increased capacity, and reduced latency. With increased capacity, Multi Orbit Satellite Broadband can support the growing demand for data-intensive applications and services, empowering individuals, businesses, and communities.</p> <p>Chair: Mr H Rayappa, Director, Satcom PO, ISRO-HQ</p> <p>Moderator: Mr Nathan De Ruyter, Managing Director, Euroconsult</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr. Bashir Patel, Senior Advisor, Global Policy, Regulatory and Spectrum 	<p>Next-gen innovations in the Ground Segment</p> <p>Antennas play a crucial role in the ground segment of satellite communication systems, as they are responsible for transmitting and receiving signals to and from satellites. With the rapid advancement of technology, several innovations are shaping the next generation of ground-segment antennas</p> <p>Chair & Moderator: Dr V K Anandan, Dy Director, ISTRAC, ISRO</p> <p>Keynote: Mr Harvinder Singh Nagi, Sr System Architect – Future Networks, Satellite Application Catapult, UK</p> <p>Speaker:</p> <ul style="list-style-type: none"> ❖ Mr Harvinder Singh Nagi, Sr System Architect – Future Networks, Satellite Application Catapult, UK

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			Speakers: <ul style="list-style-type: none"> ❖ Mr Vishesh Rajaram, Managing Partner, Speciale Incept Advisors LLP ❖ Mr Ankit Anand, Founding Partner, Riceberg Ventures ❖ Mr Amey Belorkar, Vice President, IDBI Capital & Security ❖ Mr Nakul Batra, Partner, DSK Legal 		<ul style="list-style-type: none"> ❖ Mr Dharmendra Singh (VP- New Business), Hughes Communications India ❖ Mr Harsh Verma, Vice President, Sales Asia, SES 	<ul style="list-style-type: none"> ❖ Mr Niket Bhatt, Co-founder & Executive Director, Digitron DefSpace Pvt. Ltd ❖ Mr John Saripally, Managing Director, ComSat System ❖ Mr Riaz Lamak, President, Mahdi Bagh Computers Private Limited ❖ Mr R K Singh, Managing Director, LeafSpace (US)
15:50	16:20	00:30	Networking Tea Break			
16:20	18:00	01:40	<p style="text-align: center;">Enhancing India’s Global Trade in Space Sector – A Roundtable Discussion</p> <p>Chair: Shri Prabhat Kumar, Special Secretary, Economic Relations and Development Partnership Administration, Ministry of External Affairs, Govt of India</p> <p>Participants:</p> <ul style="list-style-type: none"> ❖ Shri Mahaveer Singhvi, Joint Secretary, New, Emerging and Strategic Technologies [NEST] Division ❖ Dr Subba Rao Pavuluri, CMD Ananth Technology ❖ Mr Laxmesh BH, Vice President & Head - Missiles & Aerospace Business, L&T Defence ❖ Mr Rohan Verma, CEO and ED, MapmyIndia ❖ Mr Anagh Singh, Assistant Vice President, Invest India ❖ Capt Vishal Kanwar, Executive Director, PwC India ❖ Capt. Vinod Narasimhamurthy (Retd.), Associate Director, BCG <p>Through proactive engagement, MEA strengthens India’s position as a reliable partner in the global space sector, opening doors for expanded trade opportunities and collaborations with countries around the world. By effectively leveraging strategic tools, such as financing, India can unleash the full potential of India’s space sector and fuel its global competitiveness.</p>			
End of Day 2 of the Conference and Expo						



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Start	End	Dur	Day 3: 12th July 2023, Wednesday Hotel Hyatt Regency, New Delhi			
08:30	09:00	00:30	Delegate Registration			
09:00	10:30	01:30	<p style="text-align: center;">Inaugural Session at Oval</p> <p>Welcome Address: Dr Subba Rao Pavuluri, President, SIA-India Keynote Address: Mr Hazem Moakkit, VP-Spectrum Strategy, Intelsat Special Address (Special Guest of Honour): Air Marshal Surat Singh AVSM VM VSM, Director General Air (Operations) Inaugural Address (Chief Guest): Dr Hari Babu Kambhampati, Hi Excellency the Governor of Mizoram Release of Report on Industrialisation of India’s Space Capabilities Vote of Thanks: Mr Anil Prakash, Director General, SIA-India</p>			
Tracks			Track 1 – OVAL	Track 2 – RBR 1	Track 3 – RBR 2	Track 4 – RBR 3
10:30	11:30	01:00	<p>Seizing Opportunities with the Indian Space Sector</p> <p>The Indian space sector provides a strategic gateway for global businesses to lead the dynamic global space industry. With favorable policies, a robust ecosystem, a growing market, and a skilled talent pool, businesses can leverage India’s expertise and cost-effective manufacturing capabilities to meet the increasing demand for space services worldwide.</p> <p>Chair: Mr Joseph Joshy, CTO, IFSCA Moderator: Mr Kaushik Moitra, Partner, Bharucha & Partners Speakers:</p> <ul style="list-style-type: none"> ❖ Air Cmde Terry van Haren (Retd.), Managing Director, Leolabs 	<p>Leveraging Civil-Military Fusion</p> <p>By integrating civil and military applications of space technology, India can enhance its capabilities in various sectors, including communication, intelligence, navigation, weather forecasting, disaster management, and national security. This approach allows for the efficient use of resources, promotes innovation, and creates synergies between the civil and defence sectors.</p> <p>Chair & Moderator: Lt Gen. Vinod G Khandare, PVSM, AVSM, SM (Retd) Principal Advisor, Ministry of Defence Speakers:</p> <ul style="list-style-type: none"> ❖ Air Marshal GS Bedi AVSM, VM, VSM (Retd) former DGIS ❖ Mr Stephane Chenard, Senior Associate Consultant, Euroconsult 	<p>Satcom on the Move – Across Land, Sea and Air</p> <p>The ability to communicate from remote or mobile locations, such as aircraft, ships, trains, and vehicles, without being limited by the availability of terrestrial networks, results in increased productivity and efficiency, as well as new business opportunities and markets that were previously inaccessible.</p> <p>Chair & Moderator: Mr Gaurav Kharod, Regional Vice President, Asia-Pacific, Intelsat Keynote: Mr Paul Febvre, CTO, Satellite Applications Catapult Speakers:</p> <ul style="list-style-type: none"> ❖ Mr N Jairam, Sr Director Sales and Marketing, Hughes Communications India 	<p>Innovative Approach to Space Sector Insurance</p> <p>The rise of new space companies, increasing complexity of missions, and private investment require new insurance products and underwriting approaches such as parametric insurance etc. The changing nature of space activities is driving the need for new and innovative insurance products and approaches in the space sector.</p> <p>Chair & Moderator: Mr Nathan de Ruiter, Managing Director, Euroconsult Keynote: Mr. Nikhil Kulabkar, Associate Director at Edelweiss Gallagher Insurance Brokers Ltd. Speaker:</p> <ul style="list-style-type: none"> ❖ Mr. Nikhil Kulabkar, Associate Director at Edelweiss Gallagher Insurance Brokers Ltd

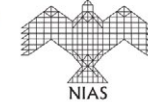


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Start	End	Dur	Day 3: 12th July 2023, Wednesday Hotel Hyatt Regency, New Delhi			
			<ul style="list-style-type: none"> ❖ Air Cmde Savinder Pal Singh, VSM (Retd), CAPS ❖ Mr Vineet Khandare, Founder-Myfundbazaar India and, Strategic Consultant ❖ Mr Raghav Handa, Director, Strategic Business Development, & Govt. Relations HSBC ❖ Mr Amitabh Ghosal, Vice President India Operations, L3Harris 	<ul style="list-style-type: none"> ❖ Mr Saikrishna BVS, CEO, Saptang Labs Pvt Ltd. 	<ul style="list-style-type: none"> ❖ Mr Paul Febvre, CTO, Satellite Applications Catapult UK ❖ Alexander Jeuck, ICT and SpaceTech Professional ❖ Mr Kapil Kumar Sharma, Scientist Engineer SG, ISRO ❖ Bashir Patel, Inmarsat 	<ul style="list-style-type: none"> ❖ Mr Darshan Parikh, Senior Vice President, Facultative Reinsurance & Marine Practice Leader, Marsh India ❖ Mr Keyur Gandhi, Regulatory and Legal affairs, Dhruva Space
11:30	12: 00	00:30	Networking Tea Break			
12:00	13:20	01:20	<p>Revisiting Space Laws for New Space Revisiting space laws for NewSpace is essential to ensure that the industry can continue to grow and innovate while also ensuring the safety of space activities and protecting the interests of all stakeholders involved. It is a complex and challenging task that requires international cooperation and collaboration between governments, industry, and other stakeholders.</p> <p>Chair & Moderator: Dr Ranjana Kaul, Partner at Dua Associates, Advocates & Solicitors</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Ashok GV, Partner, Factum Law ❖ Mr Abhishek Malhotra, Managing Partner, TMT Law Practice 	<p>Applications enabled by Satellite PNT capability. Satellite Positioning, Navigation, and Timing (PNT) systems have revolutionized various applications across industries.</p> <p>Satellite PNT enables accurate mapping and surveying, enhances navigation systems for vehicles and vessels, supports efficient logistics and fleet management, enables precision agriculture practices, aids in search and rescue operations, and ensures synchronization of critical networks.</p> <p>Chair & Moderator: AVM Rajiva Ranjan, VM, ACAS OPS (Space)</p> <p>Special Address: Mr Manish A Saxena, Director SATNAV-PO, ISRO Headquarters</p>	<p>Leading with innovation: Satellites for B2B and B2C Video In the segment of B2B and B2C video distribution through satellites, several business innovations are taking place to drive growth, create new revenue streams, and enhance the overall value proposition. By embracing new technologies, business models, and partnerships, companies can stay competitive and capitalize on the increasing demand for video content across various platforms and devices.</p> <p>Chair & Moderator: Shri Sunil, Additional Director General, Prasar Bharti</p> <p>Speaker:</p> <ul style="list-style-type: none"> ❖ Mr Rajat Nigam, Group CTO at Network18 Media & Investments ❖ Mr Sanjay Duda, CEO, Planet Cast 	<p>May the (F=mdv/dt) be with you As space exploration continues to advance, the development of more efficient and reliable engines, thrusters, fuels and propulsion systems will be critical for enabling new missions and pushing the boundaries of human exploration in space.</p> <p>Chair & Moderator: Mr AP Baiju, (Group Head, HSFG-LP), ISRO</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Dr Arindrajit Chowdhury, CEO, Inspecity & Professor, Indian Institute of Technology, Bombay ❖ Mr Prashanth Sharma, Co-Founder, EtherealX ❖ Mr Tushar Jadhav, Co-founder, Manastu Space

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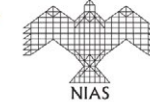


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INDIA SPACE CONGRESS 2023 - PROGRAM

'Leveraging Space to Power Next-Gen Communications & Businesses'

Start	End	Dur	Day 3: 12th July 2023, Wednesday Hotel Hyatt Regency, New Delhi			
			<ul style="list-style-type: none"> ❖ Mr. Goldie Dhama, Partner, Regulations, Public Policy, Data Privacy, M&A, Deloitte ❖ Mr Anirudh Chaturvedi, Legal Operations Associate, Manastu Space Technologies ❖ Ms Rimali Batra, Partner, DSK Legal 	Speaker: <ul style="list-style-type: none"> ❖ Dr Rachit Bhatia, Space Safety Analytics & Research lead, LeoLABS ❖ Prof Roshan Srivastava, IIT, Tirupati ❖ Mr Rohan Verma, CEO and ED, MapmyIndia 	<ul style="list-style-type: none"> ❖ Mr Raju Pulgurtha,, Senior Sales Director, South Asia, SES ❖ Mr Rajdeepsinh Gohil, Sales Director, Asiasat ❖ Mr Thomas Antony, Director Sales, APSTAR 	Launch Business – Market Dynamics The market dynamics of the space launch business are shaped by various factors, including advancements in technology, competition, government funding, customer demand, and international partnerships. Chair & Moderator: Dr V.S. Hegde, Fmr CMD, Antrix Corporation Ltd and Fmr Scientific Secretary, ISRO Speakers: <ul style="list-style-type: none"> ❖ Mr Dmitry Loskutov, Director General, JSC Glavkosmos ❖ Mr Thomas Carroll, Manager, Business Development Space Logistics LLC ❖ Mr Manu J Nair, Co-Founder & CEO, EtherealX
13:20	14:30	01:10	Networking Lunch Break			
14:30	15:50	01:20	Enhancing International Cooperation in Space Being a global common, it is natural for different nations to aspire to be a part of the space economy. Nations with their established space programs, Industrial capability and innovative culture from startups could create opportunities for collaboration with nations from Africa to East Asia. How do we make this happen?	Cyber-Security for Space Operations Strong cybersecurity is vital to protect critical infrastructure, networks, and satellite systems. Collaboration among space agencies, industry stakeholders, and cybersecurity experts is crucial to devise and implement effective strategies for space operations, ensuring the future of space exploration and satellite technology.	Need for a clear spectrum assignment mechanism Simplifying the spectrum access process improves allocation and utilization, benefiting telecommunications, broadcasting, and other industries. This promotes growth and contributes to overall economic development by streamlining channels like the Department of Space and the Wireless Planning and Coordination (WPC).	Satellites and Drones: Powering Synergistic Innovation The integration of satellites and drones in a coordinated system creates a powerful toolset for data collection, analysis, and decision-making, revolutionizing industries and opening up new opportunities for innovation and problem-solving.



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			<p>Chair & Moderator: Prof. Chaitanya Giri, Associate Professor, FLAME University, Editor, Interstellar_Go & Consultant RIS</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Leo Bremanis, Trade and Investment Commissioner, Australian High Commission ❖ Mr Dhoya Snijders, Head of Innovation, Embassy of the Netherlands ❖ Mr Sameer Guduru, Director, Digital Economy & Aerospace & Defence at USIBC ❖ Mr Hirokazu Mori, CXO advisor at SPACETIDE Foundation <hr/> <p>Sustainable Space Operations - Tools and Business Models</p> <p>Sustainable space operations require robust tools and practices such as Space Situational Awareness (SSA), Space Traffic Management (STM), debris mitigation, and Conjunction Analysis and Mitigation. These measures ensure the safety of spacecraft, prevent collisions and minimize space debris. Collaboration between public and private entities, innovative business models, and responsible practices are crucial</p>	<p>Chair: Mr Rajiv Chetwani, Chief Information Security Officer, DOS/ISRO, Director, DISM, ISRO</p> <p>Moderator: Col KV Kuber, E&Y</p> <p>Speaker:</p> <ul style="list-style-type: none"> ❖ Mr Narendra Nath, Joint Secretary National Security Council Secretariat, GOI ❖ Mr Saikrishna BVS, CEO, Saptang Labs Pvt Ltd. ❖ Capt. Vishal Kanwar, Executive Director, PwC India ❖ Lt. Col Amandeep Singh, Spatial Domain Expert and Author ❖ Mr Suhas Gopinath CEO, Globals Inc <hr/> <p>Government as a Bank, Customer, or Partner? Finding the Right Balance</p> <p>The government should consider its goals for the industry and the strengths and weaknesses of each approach to strike a balance and support the growth of the space sector while promoting innovation and competition.</p> <p>Chair & Moderator: Mr Pankaj Sharma, E&Y</p>	<p>Chair & Moderator: Dr Mahesh Uppal, Policy Expert and Director Com First (India) Pvt Ltd</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Ms Laura Roberti, Director of Licensing and Market Access, Telesat Canada ❖ Mr Rajeev Kumar, Director Engineering, Doordarshan, Prasar Bharati ❖ Mr Hazem Moakkit, VP-Spectrum Strategy, Intelsat ❖ Mr Bashir Patel, INMARSAT 	<p>Chair & Moderator: Air Marshal GS Bedi, AVSM, VM, VSM(Retd), Former DGIS</p> <p>Keynote: Mr Paul Febvre, CTO, Satellite Applications Catapult</p> <p>Special Address: Dr SP Agarwal, Director NESAC</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Paul Febvre, CTO, Satellite Applications Catapult UK ❖ Mr. Riaz Lamak, President, Mahdi Bagh Computers Private Limited ❖ Grp Capt MJ Augustine, VSM (Retd) ❖ Mr Naveen Chittilapilly, CTO, Augsenselab Pvt Ltd

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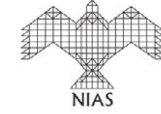
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Start	End	Dur	Day 3: 12th July 2023, Wednesday Hotel Hyatt Regency, New Delhi			
			<p>for achieving sustainability in the space sector Chair & Moderator: Mr Stephane Chenard, Senior Consultant, Euroconsult</p> <p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Navin Gopal, Vice President of Strategy & Business Analysis, Astroscale ❖ Dr Rachit Bhatia, Space Safety Analytics & Research lead, LeoLABS 	<p>Speakers:</p> <ul style="list-style-type: none"> ❖ Mr Ankit Anand, Riceberg Ventures ❖ Prof. Chaitanya Giri, Associate Professor, FLAME University, Editor, Interstellar_Go & Consultant RIS ❖ Dr V.S. Hegde, Fmr CMD, Antrix Corporation Ltd and Fmr Scientific Secretary, ISRO 		
15:50	16:20	00:30	Networking Tea Break			
16:20	17:20	01:00	Closing Plenary - Mankind to Moonkind – Humanity's Future in Space.			
			<p>The panel discussion envisions a future where humans live and work beyond Earth, specifically on the Moon and beyond. This exciting prospect requires overcoming challenges such as creating sustainable habitats, ensuring life support systems, and developing the necessary infrastructure for our aspiration to venture beyond our home planet and establish a thriving human presence in space</p> <p>Chair: Shri Imtiaz Ali Kha, Director of Human Space Programme Directorate (DHSP), ISRO</p> <p>Speaker:</p> <ul style="list-style-type: none"> ❖ Mr Gurvinder Chohan CEO & Founder QSTC ❖ Mr Pallava Bagla, Science Journalist ❖ Mr George Weinmann, Sr, Director, Blue Origin 			
17:20	18:00	00:40	Closing Plenary - Vote of Thanks and Closing Address – Anil Prakash, Director General, SIA-India			
End of day 3 and Closure of Conference & Expo						

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