

INDIAN SPACE CONCLAVE 2023

Co-Hosted by 

09 OCT 2023 | DAY 01 | INDO-FRENCH SPACE SUMMIT

Honoured Country France

DAY 01 | 0930-1700 Hrs

SESSION 1 | SESSION ON NATIONAL DEEP TECH STARTUP POLICY 2023

(Additional subjects may be covered - INDIAN SPACE POLICY 2023 and NATIONAL RESEARCH FOUNDATION BILL 2023)

OFFICE OF THE PRINCIPAL SCIENTIFIC ADVISER TO THE GOVERNMENT OF INDIA

PLENARY SESSION - INDO-FRENCH SPACE SYNERGY

ISpA-GIFAS MoU Ceremony

LEVERAGING DUAL EXPERTISE IN THE SPACE INDUSTRY: EXPLORING FRANCO-INDIAN SYNERGIES

PANEL DISCUSSION 1: Fostering Indo-French Space Collaboration: Forging Partnerships in the Space Industry for Mutual Growth and Technological Advancement

FRENCH COMPANIES PITCH 1

PANEL DISCUSSION 2: Catalyzing Innovations for Advancing Developments in the NewSpace Realm

FRENCH COMPANIES PITCH 2

SESSION 04 | FUTURE MODERN TRENDS IN EMERGING SPACE SECTOR

The emerging space sector is witnessing exciting modern trends that will shape the future of space exploration. Key areas of focus include Space Situational Awareness (SSA) to manage space debris, leveraging microgravity for scientific research and commercial opportunities, advancing in-space travel technologies, establishing robust deep space communication networks, exploring uncharted celestial bodies through deep space exploration, harnessing in-situ resource utilization for sustainable space missions, building a thriving lunar economy, and enabling on-orbit manufacturing, maintenance, and refueling to support long-duration space missions. These trends hold tremendous potential for unlocking new frontiers, expanding our knowledge, and fostering economic growth in the evolving space sector.

SESSION 05 | LEVERAGING SPACE TECHNOLOGY FOR EFFECTIVE DISASTER MANAGEMENT & RESCUE RESPONSE

This panel discussion explores the role of civil-defence space technologies in disaster management and rescue operations. Experts from space agencies, disaster management organizations, and emergency response teams will discuss the utilization of satellite imagery, remote sensing, and communication systems to enhance situational awareness, early warning, preparedness, rapid response, and coordination in times of crises. The panel aims to promote collaboration, share best practices, foster knowledge exchange among the stakeholders.

SESSION 6 | PLASMA TECHNOLOGY FOR SPACE - INSTITUTE FOR PLASMA RESEARCH

END OF DAY 01

10 OCT 2023 | DAY 02 | SPACE COMMUNICATION & PREPARATION FOR NEXT GEN CHALLENGES

DAY 02 | 0930-1700 Hrs
INAUGURAL SESSION
SESSION 01 | HARNESSING SPACE SPECTRUM FOR \$5T ECONOMY

Leveraging the untapped potential of the space spectrum to propel economic growth towards a \$5 trillion economy. Expanding importance of Space Spectrum for satellite communication, remote sensing, and navigation systems to enhance connectivity, accelerate innovation, and drive sectors such as agriculture, transportation, healthcare, and digital services.

INDUSTRY SESSION 01
SESSION 02A | THEME - EXPLORING THE WORLD OF SPACECRAFT MISSION OPERATIONS

This session focuses on spacecraft mission operations, highlighting the critical role of planning, executing, and managing space missions. Experts will share insights on mission design, satellite control, telemetry, tracking, and overall operational strategies. Participants will gain valuable knowledge on ensuring mission success, optimizing resources, and overcoming challenges in the dynamic realm of spacecraft operations.

SESSION 02B | THEME - INNOVATION NEXUS: EXPLORING THE PPP MODEL OF GOVERNMENT-INDUSTRY-ACADEMIA INTERFACE

This panel discussion explores the Government-Industry-Academia PPP model in space research. Experts from the government, industry, and academia will examine collaborative strategies, funding mechanisms, policy frameworks, and technological advancements to foster cutting-edge research, knowledge exchange, and innovation in the space domain. The panel aims to catalyze dialogue, foster partnerships, and inspire transformative ideas for advancing space research and innovation through effective collaboration.

Special Address on "Making a Cyber Resilient Space Ecosystem: Opportunities for PPP": Lt Gen MU Nair, National CyberSecurity Coordinator (NCSC)

Presentation: The State of the Indian New Space Ecosystem from the Lens of Startups by Shri Awais Ahmed, Founder & CEO, Pixxel Space

SESSION 03A | THEME - FROM THEORY TO PRACTICE: FOSTERING SKILL & CAPACITY DEVELOPMENT FOR SPACE WORKFORCE

The discussion will explore the critical role of the disciplines such as astrophysics, space law, economics, & STEM in fostering innovation, advancing research, and shaping the future of space exploration. By bringing together experts, professionals, and stakeholders from diverse backgrounds, the panel aims to generate valuable insights, exchange ideas, and identify strategies to enhance capacity and skills within the space sector. The panel aims to drive insights and recommendations for optimizing the Government-Industry-Academia PPP model for future advancements in the space sector.

SESSION 03B | THEME - INNOVATION BEYOND EARTH: GATEWAYS TO IN-SPACE MANUFACTURING, IN-SITU RESOURCE UTILIZATION, ADVANCE SPACE SCIENCE

This panel discussion focuses on the strategic and technological research applications of Lagrange points, specifically in the areas of in-space manufacturing, in-situ resource utilization, and their implications for cislunar and lunar missions. Experts will explore the potential of Lagrange points as critical hubs for sustainable space operations, driving innovation, and transforming our approach to space exploration and utilization. The discussion aims to identify research opportunities, technological challenges, and collaborative pathways for maximizing the potential of Lagrange points in advancing space science and exploration.



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LAUNCH OF IAF MEHAR BABA CHALLENGE by

Chief of the Air Staff of India Air Chief Marshal Vivek Ram Chaudhari, PVSM AVSM VM ADC

END OF DAY 02

11 OCT 2023 | DAY 03 | SPACE ECOSYSTEM FOR SOCIETAL BENEFIT & GLOBAL DIPLOMACY

DAY 03 | 0930-1730 Hrs

SESSION 01 | STELLAR ASPIRATIONS: VISION, STRATEGY AND ROADMAP FOR INDIAN SPACE ECOSYSTEM

This session delves into the Decadal Vision and Strategy for Development of the Indian Space Ecosystem, encompassing ISRO, IN-SPACe, NSIL, DSA, DRDO, NITI Aayog, and ISpA. Key Stakeholders will discuss collaborative initiatives, policy frameworks, technological advancements, and industry participation to propel India's space sector, promote innovation, and drive economic growth in the next decade.

SESSION 02A | SPACE-ENABLED LOGISTICS AND MOBILITY: TRANSFORMING RAILWAYS, TRANSPORTATION, SHIPPING, AND BEYOND

Utilizing space technology to revolutionize logistics and mobility across diverse sectors. Leveraging satellite-based monitoring, real-time tracking, and communication systems to enhance efficiency, safety, and sustainability in railways, transportation, shipping, and related industries. Enabling seamless operations, optimizing routes, and improving overall supply chain management.

SESSION 02B | EXPLORING BANKING, FINANCIAL & INSURANCE MODELS FOR SPACE VENTURES

This panel discussion aims to delve into the intricacies of banking, financial services, insurance, and funding models in the space domain. Experts will discuss innovative approaches, risk management, and emerging trends, fostering knowledge sharing and collaboration to drive sustainable financial support for space ventures and explore the evolving landscape of financial mechanisms and instruments that support space missions, satellite projects to secure funding, mitigate risks, and ensure sustainable growth in the space industry.

PLENARY SESSION

ISpA-USISPF MoU Ceremony

SESSION 03A | MAPPING SPACETECH SOLUTIONS TO ACHIEVE SUSTAINABLE DEVELOPMENT GOALS IN INDIA

This session highlights the role of SpaceTech solutions, including navigation systems, satcom, and geospatial analytics, in driving sustainable development goals in India.

These tools enable accurate mapping, efficient infrastructure planning, improved connectivity, disaster management, agriculture, environmental conservation and equitable resource allocation, driving sustainable and inclusive growth.

SESSION 03B | FORGING ALLIANCES FOR DEVELOPMENT OF SPACE PARKS IN INDIA

The discussion aims to explore the role of space parks in India as catalysts for growth and collaboration among MSMEs, large corporations, startups, and academia. Experts will analyze the critical factors of intellectual property rights (IPR), public-private partnership (PPP) models, land suitability, financial enablement, regulatory sandbox frameworks, and foreign investment to create an enabling environment for diverse stakeholders, driving innovation, research, and entrepreneurship within the Indian space ecosystem.

SESSION 04 | ADVANCING SPACE EXPLORATION THROUGH GLOBAL COLLABORATION AND DIPLOMACY

International bilateral cooperation in space is crucial for advancing exploration and peaceful utilization. India recently became the signatory of Artemis Accords and it might involve exchanging knowledge, conducting joint research and development, transferring technology, and collaborating on missions for space science, satellite communication, Earth observation, and space applications, while fostering diplomatic relations and global space cooperation.



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VALEDICTORY SESSION

END OF DAY 03