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Sheraton Grand Bangalore Hotel (Brigade Gateway), India

Organised by



Indian Space Research Organisation



Astronautical Society of India

in Association with



Indian National Space Promotion and Authorisation Centre



New Space India Limited

Theme

The rapid progress in space technology has enabled wider access to space for many new and non-traditional actors, including private industries, startups, and educational institutes. Low cost of launch and shorter development timespans have completely transformed the space arena by allowing multiple satellites to be launched simultaneously. The recent reforms announced by the Government of India have opened up avenues for participation from private industries and academia in the space sector.

In addition to the rise in the number of players, the utilization and development of space technology have also undergone phenomenal changes. There is an increasing trend towards deployment of smaller satellites due to their shorter development cycle, lower cost production, flexibility in service and resilience to failure, typically placed in Low Earth Orbit and often without trackability and maneuverability. Such satellites, pose a non-trivial risk of on-orbit collisions. Proliferation of multiple large constellations of satellites, hundred to thousand in numbers, is also anticipated to contribute to the drastic rise in the population density of space objects. In this context, Space Situational Awareness (SSA) and Space Traffic Management (STM) have become an integral and indispensable part of safe and sustainable space operations.

In light of the ever-increasing population of objects in outer space, it is essential to raise awareness on the importance of SSA and STM and address the future concerns through detailed discussions and deliberations with the concerned stakeholders. The Workshop on “SSA & STM: Growing Concerns on Space Environment” aims to bring out the potentially detrimental effects of the increasing number of space objects and deliberate on the methods, procedures, technologies, and policies that need to be developed and implemented to continue long-term sustainable utilisation of outer space for the benefit of humankind.

Key topics

- a) SSA and STM concepts: present and future scenarios
- b) Liability, registration, and other policy & legal aspects
- c) Orbital selection analysis
- d) Space object observational facilities, design, manufacturing and operations
- e) Requirements of tracking and monitoring, unique identifiability
- f) Challenges posed by large constellations to sustainability of outer space remedies
- g) Space Debris Mitigation and Remediation
- h) Conjunction assessment and inter-operator coordination
- i) Future challenges for ground and space-based observational systems
- j) Best practices for SSA and case studies

Industry Meet

At present, a robust space situational awareness capability is an essential pre-requisite to continue safe and sustainable operations in an increasingly congested outer space. At present, India's space object detection, tracking and monitoring capabilities are limited and need to be enhanced to meet future requirements. The current space age is also characterized by the contributions of private space industries in innovation and development of technology. Recognizing that many of the global private players have demonstrated credible space object detection and tracking capabilities and offer commercial SSA services, an Industry Meet is planned during the workshop. The meet will offer a unique networking platform where Indian industries and start-ups can interact with foreign original equipment manufacturers and industries providing SSA and STM services and explore future avenues of collaboration towards developing indigenous capabilities to offer space object tracking and monitoring services. For the foreign industries, this would be an opportunity to gauge the capabilities of Indian industries to expand their scope of operations and business through local partnership.

About ASI

The Astronautical Society of India (ASI) was set up in 1990 to foster the development of Astronautics in the country. ASI is engaged in the dissemination of technical and other information related to astronautics by conducting technical meetings, bringing out technical publications, and organizing exhibitions. The society has eminent personalities in the field of astronautics as Distinguished Fellows/Fellows on its roll. ASI also plays an active role in promoting the interests of other developing countries in the field of astronautics through the International Astronautical Federation, Paris, of which it is a voting member.

About Bengaluru

Bengaluru, also known as Bangalore, is the third largest city of India. With numerous gardens sprawling over acres of land, Bangalore has earned the rightful moniker of “Garden City of India”. Blessed with pleasant weather, the city presents a multitude of sightseeing options including architectural marvels like the Bangalore Palace and Tipu Sultan's Summer Palace and spots of picturesque natural beauty like the Nandi Hills. A home to hundreds of technology, software, and telecommunications companies, Bangalore is also known as the Silicon Valley of India. With restaurants, street food corners, quirky cafes, artisanal coffee roasters, microbreweries and pubs dotting every corner, Bengaluru is a unique mélange of old-town nostalgia and modern cityscape offering a vibrant and colourful nightlife.

Patrons

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Shri Tsering Tashi, URSC	

Member Secretary

Dr. Bulbul Mukherjee, DGM, SSOM, ISTRAC

Registration

Participation requires valid registration, Industries are also required to register to participate in the Industry meet. Registered participants will receive conference passes with QR code through email from ASI.

Website: <https://www.asindia.org/SSASTM2023>, <https://ssastm2023.istrac.gov.in>

Link for registration: <https://www.asindia.org/asi-webinar-registration>

Sponsorships

Various categories of sponsorship are available for individuals, Indian industries/startups to participate in this Workshop. An SSA & STM themed exhibition is also planned to be held at the venue. Sponsoring industries can set up stalls in the exhibition.

Registration Fee		Sponsorship Category		
Indian Delegates (non-ASI members)	₹ 4,000/- (Indian Rupees)	Platinum	₹5 lakh	Free registration for 3 delegates, Exhibition stall, 20 minutes presentation slot in industry meet
Non-sponsored ASI members	₹ 3,000/- (Indian Rupees)	Diamond	₹2 lakh	Free registration for 2 delegates, Exhibition stall, 10 minutes presentation slot in industry meet
Indian student delegates	₹ 2,000/- (Indian Rupees)	Gold	₹1 lakh	Free registration for 1 delegate, Exhibition stall
Foreign Industry	\$1,200/- (U.S Dollars)	Foreign Industry Sponsor	\$2500/-	Free registration for 2 delegates, Exhibition stall, 10 minutes presentation slot in industry meet

Last Date of Registration: December 15, 2022

Payment Details

All payments shall be made online through RTGS/NEFT/IMPS to

Account No.: 38605738348

IFSC: SBIN0009048

State Bank of India, ISRO Branch, Bangalore-560017

Address for Correspondence

For Conference:	For Registration, ASI Membership, Sponsorship:
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