

IP ID	Title	Symposium		Date	Time	Screen
70689	Wearable for health control in astronauts and also to detect and monitor COVID-19 in patients.	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:00-13:10	#1
73403	EEG Signal Synthesis and Recognition of Intelligent Health Monitoring in Long-term Space Flight	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:10-13:20	#1
67265	Transforming Near-field Micro-gravity Sources into Far-field Life Support Systems	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:20:13:30	#1
73894	Remote health data analysis of hand and wrist musculoskeletal injuries in astronauts during in-flight and post-flight periods with digital health software solution using AIML	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:00-13:10	#2
69470	efficient life support system	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:10-13:20	#2
69542	Immuno nutrition: contrameasure against immune system dysregulation during long-term spaceflight. Proposal.	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:20:13:30	#2
70172	Deep Space Habitation Systems - A Technological Review	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:00-13:10	#3
70896	Regional Anesthesia in Space	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:10-13:20	#3
70560	Feasibility of life support for humans in space with an oxygen battery system with the microalgae <i>Chlorella vulgaris</i>	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:20:13:30	#3
67960	Space and human ethology in thirty keywords	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:00-13:10	#4
73503	Analysis of Space Dragons: A Framework for Psychological Safety for Long Duration Spaceflight.	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:10-13:20	#4
72114	Application of the biopsychosocial approach to the identification and strengthening of adaptation mechanisms of human and a small social group during the isolation expe	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:20:13:30	#4
67557	Morphofunctional adaptation of the murine intestine over 30 days of simulated microgravity	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:00-13:10	#5
72038	Lab-payload for biological CubeSat satellite	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:10-13:20	#5
73376	Agricultural system on Mars: a life-support system for Martian’s settlers	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:20:13:30	#5
72082	Lab-on-chip platforms for space biology applications	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:00-13:10	#6
72041	Space Radiation Safety for Female Astronauts: A Thorough Study on Radiation-Induced Cancer	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:10-13:20	#6
70391	Aquaponic farming- A continuous supply of food for Space colonies	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:20:13:30	#6
69487	Design and Development of a health monitoring companion robot for crew members in space	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Monday 19 September	13:00-13:10	#7
67421	Moon exploration acceleration : the concept of the flight data recorder for Space missions	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:10-13:20	#7
72466	Martian Interior Investigation Using Distributed Geodetic Sensor Network in the Tharsis Region of Mars	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:20:13:30	#7
70808	Asteroid Impactor Sample Return Mission Concept	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:00-13:10	#8
73929	Novel Design Requirements for Nano Lunar Rovers	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:10-13:20	#8
73924	CubeR - A Solution for Lunar Exploration	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:20:13:30	#8
70047	Utilization of Stereolithography-based Additive Manufacturing Approach for Manufacturing of Lunar Regolith Ceramics	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:00-13:10	#9
72600	In-Situ Detection of Planetary Rover Catastrophic Failures using Machine Learning	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:10-13:20	#9
69869	A systems-level approach to extracting oxygen from lunar regolith via Molten Regolith Electrolysis.	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:20:13:30	#9
67926	De - Centralized Network for Co-ordinated Lunar Robotic Activity	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:00-13:10	#10
67757	A comparative technical analysis on the occurrence, abundance, and prospection of water ice on the Lunar and Martian exteriorities.	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:10-13:20	#10
68749	Basalt fiber composites for the robotic fabrication of a lunar habitat	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:20:13:30	#10
73765	Artemis Lunar Student Drill: A novel drill searching for lunar volatiles in the Lunar South Pole	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:00-13:10	#11
73150	Malapert Mountain: Moon High Ground Point E Awaits Landers	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:10-13:20	#11
72027	Development of a Low Gravity Airbearing Surface	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:20:13:30	#11
69832	Analysis of Approaches to Ensuring the Return of a Segmental-Conical Shape Re-entry Vehicle from a Lunar Orbit without Destruction of the Thermal Protection Coating	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:00-13:10	#12
69734	Lunar Leaper: A locomotive vehicle for expanded outreach of lunar environment with dual operations	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:10-13:20	#12
71529	Water mapping neutron spectrometer HardPix for EL3 Polar Explorer	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:20:13:30	#12
71146	the impact of slip and rover mobility implementation constraints on planetary rover path planning	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:00-13:10	#13
69573	High-fidelity Robust 3-D Lunar Environment Generation Platform for Micro-rover Simulation-based Tasks	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:10-13:20	#13
69545	Hazard Detection & Avoidance Integration and Demonstration for Autonomous Moon Landing	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:20:13:30	#13
72590	Soil Penetration Darts (SPDs) for Deep Soil Sampling	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:00-13:10	#14
69374	Robust place recognition with Gaussian Process Gradient Maps for teams of robotic explorers in challenging lunar environments	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:10-13:20	#14
73185	Phase-A Design of a Mars South Pole Exploration Mission: MARS PENGUIN	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:20:13:30	#14
70249	Rubitics: The Smarter GCMS for Mars	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:00-13:10	#15
67195	VaMi - an Exploration of Valles Marineris	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:10-13:20	#15
70601	Autonomous Perception and Terrain Reconstruction of Unstructured Lunar Complex Environment: A Review	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:20:13:30	#15

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67611	Analisis of the Electromagnetic Behavior of Lunar Soil for Future Mobile Telecommunication Systems in the 1-6 GHz Frequency Band	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:00-13:10	#16
67980	Proof-of-Concept Tabletop Tunable Diode Laser Absorption Spectrometer Instrument (TDLAS) for the Detection of H2O(v) in Lunar Regolith for the Canadian Multipurpos	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:10-13:20	#16
68220	Vision-based Navigation supported by Convolutional Neural Networks for Lunar
and Planetary Landing Missions	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:20:13:30	#16
69704	Feasibility study for lunar resources transport and delivery through a Path Clearance Vehicle (PCV)	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:00-13:10	#17
73101	Lunar Oasis – Architectural Visions for an Integrated Lunar Habitat	A5	25th IAA SYMPOSIUM ON HUMAN EXPLORATION C	Monday 19 September	13:10-13:20	#17
68314	Asclepios II: Second Iteration of the Student-led Analog Mission Simulating a Human Expedition to the Lunar South Pole	A5	25th IAA SYMPOSIUM ON HUMAN EXPLORATION C	Monday 19 September	13:20:13:30	#17
70152	Results of satellite identification and positioning by pseudoranging measurements targetting only radio transmissions preambles with highly-uncertain time-synchronization	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:00-13:10	#18
73800	Novel low-cost lightweight laser retroreflectors for a sustainable new-space era	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:10-13:20	#18
70959	Research on the interpolation of the gravitational
potential of the Earth	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:20:13:30	#18
69295	A Standard Interconnect Benchmark for a European In-orbit Services,
Manufacturing and Assembly (ISMA) Demonstrator	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:00-13:10	#19
69583	Effect of linear and nonlinear propagation of uncertainty on optimal collision avoidance maneuvers	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:10-13:20	#19
71301	ADEO – The Automatic De-Orbit Sail Subsystem – Enabling Space Debris Mitigation for Big- and SmallSats, Rocket Bodies, CubeSats, and Constellations	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:20:13:30	#19
70746	A Dynamical Systems Analysis of the Effects of Launch Rate Distribution on the Stability of a Source-Sink Orbital Debris Model	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:00-13:10	#20
71769	Demonstration of space debris observation capabilities of the ESA IZN-1 robotic optical ground station	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:10-13:20	#20
73790	kasiopeia: kasi's orbit propagation & estimation, integrated analysis system for space situational awareness	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:20:13:30	#20
70664	Formation keeping control for simultaneous deorbit using laser ablation	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:00-13:10	#21
73061	The UK Space Agency's Active Debris Removal Phase 0/Phase A Studies	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:10-13:20	#21
73593	data fusion of multiple orbital data sources for optimum collision avoidance services at eusst	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:20:13:30	#21
67327	Study on Planum Boreum Martian Ice-column distribution using a combination of mid-UV and RGB band from Emirates Exploration Imager (EXI)	A3	IAF SPACE EXPLORATION SYMPOSIUM	Monday 19 September	13:00-13:10	#22
70684	Estimation of orbital parameters of broken-up object using in-situ debris measurement satellite	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:10-13:20	#22
70887	Compliance Control of Dual-arm Space Robot Capture Satellite Operation Based on Barrier Lyapunov Function	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:20:13:30	#22
73340	Space Cleaner: a new magnetic contactless way to recover space debris	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:00-13:10	#23
72935	Development of Identifiability Scores for the Detectability, Identifiability, and Trackability Analysis of the Space Sustainability Rating	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:10-13:20	#23
73807	Space big data in the service of the Space2030 Agenda	B1	IAF EARTH OBSERVATION SYMPOSIUM	Monday 19 September	13:20:13:30	#23
72635	analysis of the spread of the callao oil spill off the coast of lima, peru using earth observation data	B1	IAF EARTH OBSERVATION SYMPOSIUM	Monday 19 September	13:00-13:10	#24
68773	Potable water leak Detection Based on L-Band SAR Technology	B1	IAF EARTH OBSERVATION SYMPOSIUM	Monday 19 September	13:10-13:20	#24
68832	coffi: an image classification gui for forest fire imagery applying convolution neural networks	B1	IAF EARTH OBSERVATION SYMPOSIUM	Monday 19 September	13:20:13:30	#24
68841	Genetic algorithm-based constellation orbit design for efficient integrated operation
of single satellites and increase of the temporal resolution of satellite informat	B1	IAF EARTH OBSERVATION SYMPOSIUM	Monday 19 September	13:00-13:10	#25
69082	Detection and removal of cars from satellite imagery of urban areas
with image reconstruction using deep learning techniques	B1	IAF EARTH OBSERVATION SYMPOSIUM	Monday 19 September	13:10-13:20	#25
69135	Recent developments of space optics at Safran Reosc	B1	IAF EARTH OBSERVATION SYMPOSIUM	Monday 19 September	13:20:13:30	#25
70390	North Star: Data-driven sailing for an efficient and safe passage in the Arctic Ocean	B1	IAF EARTH OBSERVATION SYMPOSIUM	Monday 19 September	13:00-13:10	#26
71102	Novel Edge Data Procession System for EO applications	B1	IAF EARTH OBSERVATION SYMPOSIUM	Monday 19 September	13:10-13:20	#26
71913	Linear regression statistics in relation to vegetation and rainfall/temperature.	B1	IAF EARTH OBSERVATION SYMPOSIUM	Monday 19 September	13:20:13:30	#26
72058	Analyzing the Impacts of Climate Change on N2O Emissions from Soil Using Small Satellites	B1	IAF EARTH OBSERVATION SYMPOSIUM	Monday 19 September	13:00-13:10	#27
72547	Boosting reforestation by estimation of soil fertility
using satellite imaging techniques	B1	IAF EARTH OBSERVATION SYMPOSIUM	Monday 19 September	13:10-13:20	#27
72835	Kadmos PDGS-as-service for the PRISMA mission	B1	IAF EARTH OBSERVATION SYMPOSIUM	Monday 19 September	13:20:13:30	#27
72293	A Deep Learning based visual navigation system for deep space navigation	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Monday 19 September	13:00-13:10	#28
72264	A Mechatronic Engineering Approach on the Design of a Telemetry, Tracking, and Command System for the Monitoring of a 3U Cubesat Nanosatellite	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Monday 19 September	13:10-13:20	#28
67286	the vision - concept of laser crosslink systems using nanosatellites in formation flying	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Monday 19 September	13:20:13:30	#28
73516	Performance Bounds for Cooperative Localisation in Starlink	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Monday 19 September	13:00-13:10	#29
70714	Checkout and Testing Equipment(CTE)for inter-satellite link (ISL) Communication Subsystem	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Monday 19 September	13:10-13:20	#29
73468	Starship Impact on the SatCom Industry	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Monday 19 September	13:20:13:30	#29
72778	An Analysis of Constellation Configurations for a Lunar Navigation Satellite System	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Monday 19 September	13:00-13:10	#30
67870	Geometrical comparison of different localization methods for lunar navigation exploiting ELFO and HALO orbits	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Monday 19 September	13:10-13:20	#30
72676	Virtual Reality Multiuser Simulation of Surface Operations for Artemis and Mars missions	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Monday 19 September	13:20:13:30	#30

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72434	Electroencephalography (EEG), electromyography (EMG) and eye- tracking for astronaut training and space exploration	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Monday 19 September	13:00-13:10	#31
68973	The use of virtual reality in microgravity environments for astronaut training	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Monday 19 September	13:10-13:20	#31
70020	Using the method of loci in virtual reality to reduce robotic operations training time for astronauts	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Monday 19 September	13:20:13:30	#31
72756	The Receipt and Analysis of Weather Data in a Simulated Martian Environment	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Monday 19 September	13:00-13:10	#32
73562	Product Assurance for Small Satellites in Responsive Space with Modular Payload and COTS-Platform	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Monday 19 September	13:10-13:20	#32
67212	Manage the work flow of data Space operations in the new Space	B6	IAF SPACE OPERATIONS SYMPOSIUM	Monday 19 September	13:20:13:30	#32
72913	Future ground segments with standardized interfaces: the DOMINO-X project	B6	IAF SPACE OPERATIONS SYMPOSIUM	Monday 19 September	13:00-13:10	#33
70579	A multi-agent planning method on deep reinforcement learning for lunar rovers collaborated operation with uncertainty	B6	IAF SPACE OPERATIONS SYMPOSIUM	Monday 19 September	13:10-13:20	#33
70308	PODIUM: A pulsar navigation unit for science missions	B6	IAF SPACE OPERATIONS SYMPOSIUM	Monday 19 September	13:20:13:30	#33
67786	On-board Re-planning of an Earth Observation Satellite for Maximisation of Observation Campaign Goals	B6	IAF SPACE OPERATIONS SYMPOSIUM	Monday 19 September	13:00-13:10	#34
73287	Attitude disturbance caused by propellant mass contamination and sublimation from satellite external surfaces during orbital control operations.	B6	IAF SPACE OPERATIONS SYMPOSIUM	Monday 19 September	13:10-13:20	#34
74060	Design Drivers of an Attitude Control System for Small CubeSats Using Magnetorquers	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:20:13:30	#34
69315	Design, development and analysis of Gear Based Variable Speed Control Moment Gyros	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:00-13:10	#35
69591	Application and Analysis of Neural Networks for Unmodeled Dynamics in the Circular Restricted Three Body Problem	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:10-13:20	#35
71401	Exploiting coherent patterns for the analysis of qualitative motion and the design of bounded orbits around small bodies	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:20:13:30	#35
68600	Robust Design of Interplanetary Trajectories under Severe Uncertainty via Meta-Reinforcement Learning	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:00-13:10	#36
72087	IMPROVING ON-BOARD ATTITUDE KNOWLEDGE ACCURACY BY REAL-TIME LEARNING AND COMPENSATION OF MEASUREMENT ERRORS FOR HIGH ACCUR	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:10-13:20	#36
71381	Nonlinear Observer and MPC-based algorithms for rendezvous maneuver with tumbling target	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:20:13:30	#36
69697	Spacecraft formation flying configuration design for space-based gravitational wave observatory	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:00-13:10	#37
71732	Satellite attitude determination algorithms based only on star tracker measurements using TRIAD and q-method	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:10-13:20	#37
68189	Effects of Primary Shadowing on Asteroid Ejecta Captured into Periodic Orbits	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:20:13:30	#37
69241	On the orbit control of near repeat cycle orbits: the case of the BIOMASS mission	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:00-13:10	#38
73897	Multiple-shooting continuation of sun-assisted lunar transfers from the planar bicircular to the ephemeris model	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:10-13:20	#38
69254	Hardware-in-the-loop simulation framework for CubeSats proximity operations: application to the Milani mission	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:20:13:30	#38
71391	Sensitivity analysis of asteroid ejecta models for future in-orbit sample collection mission	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:00-13:10	#39
69357	To the Extended Rutherford’s formula and its application in the interplanetary mission design using multiple gravity assists	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:10-13:20	#39
71120	Coordination and Reactive Control of Multi-Spacecraft Formations for Earth Observation	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:20:13:30	#39
67224	Resonant orbit for the expansion of achievable landing areas on the Venus surface in framework of Venera-D project	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:00-13:10	#40
72589	Framework for Analyzing the Complex Interactions Between Spacecraft Motion and Slosh Dynamics in Low-G Environments	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:10-13:20	#40
67873	SIX DOF ANALYSIS FOR ASTEROID AUTONOMOUS EXPLORATION	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:20:13:30	#40
71903	GNC of an cargo spacecraft on-orbit servicing Herschel at L2	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:00-13:10	#41
67749	Direct Phasing Maneuver in Cis-Lunar Space: Sensitivity and Robustness analysis	C1	IAF ASTRODYNAMICS SYMPOSIUM	Monday 19 September	13:10-13:20	#41
72934	enhancement of passive damping by using multilayered superelastic shape memory alloy for vibration suppression of solar panel	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Monday 19 September	13:20:13:30	#41
69915	Space Structure Building Block Inspired by Deep-Sea Glass Sponges	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Monday 19 September	13:00-13:10	#42
68340	Development of the thermal control unit using the solid-liquid phase change material for multi-heat sources installed on the Korean NEXTSat-2	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Monday 19 September	13:10-13:20	#42
68252	Investigation on heat transfer characteristic of PODS at low temperature	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Monday 19 September	13:20:13:30	#42
70904	The Effect of Self-shadowing on CubeSats Power Generation	C3	IAF SPACE POWER SYMPOSIUM	Monday 19 September	13:00-13:10	#43
70613	Non-Uniform Heating Impact on Specific Impulse in Nuclear Thermal Propulsion Engines	C3	IAF SPACE POWER SYMPOSIUM	Monday 19 September	13:10-13:20	#43
74085	The importance of export compliance regarding nuclear energy systems and its use in the space industry	C3	IAF SPACE POWER SYMPOSIUM	Monday 19 September	13:20:13:30	#43
73311	Spacecraft Integrated System Model for NTP Powered Planetary Science Missions	C3	IAF SPACE POWER SYMPOSIUM	Monday 19 September	13:00-13:10	#44
68377	Nuclear batteries for Space applications: from 1913 to the Moon and beyond	C3	IAF SPACE POWER SYMPOSIUM	Monday 19 September	13:10-13:20	#44
69269	WiPTherm: A novel energy harvesting paradigm for CubeSats	C3	IAF SPACE POWER SYMPOSIUM	Monday 19 September	13:20:13:30	#44
70242	Numerical Model for the Prediction of the Regression Rate in Hybrid Rocket Kick-Motors Working with Liquid Nitrous Oxide	C4	IAF SPACE PROPULSION SYMPOSIUM	Monday 19 September	13:00-13:10	#45
68246	Computational Study of Plasma Detachment from Magnetic Nozzles in Applied Field MPD Thrusters using Lattice Boltzmann Method	C4	IAF SPACE PROPULSION SYMPOSIUM	Monday 19 September	13:10-13:20	#45
70469	Hybrid Rocket Engines as an Option to Future Application for the Brazilian Space Sector	C4	IAF SPACE PROPULSION SYMPOSIUM	Monday 19 September	13:20:13:30	#45

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72754	Thermal Analysis of the Scramjet Engine System with Burning Fuel	C4	IAF SPACE PROPULSION SYMPOSIUM	Monday 19 September	13:00-13:10	#46
70105	experimental study on the influence of different oscillation amplitude on the combustion characteristics of propellant aluminum particles	C4	IAF SPACE PROPULSION SYMPOSIUM	Monday 19 September	13:10-13:20	#46
69962	Fuel regression characteristics of axial-injection end-burning hybrid rockets using Nitrous Oxide	C4	IAF SPACE PROPULSION SYMPOSIUM	Monday 19 September	13:20:13:30	#46
71421	Development of microsatellite to demonstrate space debris removal technologies	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Monday 19 September	13:00-13:10	#47
67566	Lagrange Asteroid City (LAC) – Asteropolis: the O’Neill’s Space Urban Model Revisited	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Monday 19 September	13:10-13:20	#47
70633	Toward a Blockchain-Space Nexus: Challenges and Opportunities to Security, Stability, and Sustainability on the Final Frontier	E9	IAF SYMPOSIUM ON SECURITY, STABILITY AND S	Monday 19 September	13:20:13:30	#47
68401	Upper stage scramjet based propulsion system	C4	IAF SPACE PROPULSION SYMPOSIUM	Monday 19 September	13:00-13:10	#48
72677	Testing and Manufacturing of a Hypersonic Rocket Fins	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Monday 19 September	13:10-13:20	#48
72331	The Whole is More than the Sum of its Parts: Updates from the TURTLE Group
Towards The Global Development of a Lunar Exploration Technology Adaptive R	D4	20th IAA SYMPOSIUM ON VISIONS AND STRATEG	Monday 19 September	13:20:13:30	#48
67631	The Multi-Level System of Space Mining: Regulatory Aspects and Enforcement Options	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPACE	Monday 19 September	13:00-13:10	#49
68383	Development of a validated modular design tool for ABS-nitrous hybrid rocket engines	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:00-13:10	#1
70285	Interstellar space exploration using photon propulsion	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:10-13:20	#1
69947	Experiment and Simulation for Dynamic Characteristics of Dual-mode Space Propulsion System Pressurized by Electric Pump	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:20:13:30	#1
73103	Assessing Impurity Effects on LO-x/Methane and LO-x/Natural Gas Mixtures in Rocket Propulsion Systems	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:00-13:10	#2
69126	Atomisation and Combustion of the ONERA / CNES High Performance Green Monopropellant	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:10-13:20	#2
68061	Challenges and Opportunities for Orbital Propulsion	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:20:13:30	#2
73825	cfD optimization of film cooling in green storable
bipropellant rocket thrusters	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:00-13:10	#3
67336	International Space stations communication system to the Earth : the European Data Relay System for the astronauts on orbit.	D1	IAF SPACE SYSTEMS SYMPOSIUM	Tuesday 20 September	13:10-13:20	#3
74233	Ouroboros - A Case Study in Distributed Agile Concurrent Engineering (DACE) of Space Missions	D1	IAF SPACE SYSTEMS SYMPOSIUM	Tuesday 20 September	13:20:13:30	#3
71520	A framework for collecting lessons learned for university CubeSat projects	D1	IAF SPACE SYSTEMS SYMPOSIUM	Tuesday 20 September	13:00-13:10	#4
73606	Photometric analysis for testing Starlink solutions to light reflection mitigation	D1	IAF SPACE SYSTEMS SYMPOSIUM	Tuesday 20 September	13:10-13:20	#4
68681	LESSON LEARNED INNOVATIONS IN THE EUROPEAN SPACE AGENCY - FIRST STEPS IN THE APPLICATION OF ARTIFICIAL INTELLIGENCE AND MACHINE LEA	D1	IAF SPACE SYSTEMS SYMPOSIUM	Tuesday 20 September	13:20:13:30	#4
74221	software development lessons learned in volunteer student-driven cubesat missions	D1	IAF SPACE SYSTEMS SYMPOSIUM	Tuesday 20 September	13:00-13:10	#5
68680	Motion Planning of Space Robot Based on GAT	D1	IAF SPACE SYSTEMS SYMPOSIUM	Tuesday 20 September	13:10-13:20	#5
73767	STASIS: An Attitude Testbed for Hardware-in-the-Loop Simulations of Autonomous Guidance, Navigation, and Control Systems	D1	IAF SPACE SYSTEMS SYMPOSIUM	Tuesday 20 September	13:20:13:30	#5
74332	Real-Time Remaining Useful Life Prediction of Spacecraft Reaction Wheels Using Hybrid Model Based on Artificial Intelligence Techniques	D1	IAF SPACE SYSTEMS SYMPOSIUM	Tuesday 20 September	13:00-13:10	#6
70503	Safety Guided System Design for Satellite Mega-Constellations	D1	IAF SPACE SYSTEMS SYMPOSIUM	Tuesday 20 September	13:10-13:20	#6
74176	spacecraft preliminary sizing formulation methods	D1	IAF SPACE SYSTEMS SYMPOSIUM	Tuesday 20 September	13:20:13:30	#6
71812	Agile-Systems Engineering for sub-CubeSat scale spacecraft	D1	IAF SPACE SYSTEMS SYMPOSIUM	Tuesday 20 September	13:00-13:10	#7
73279	An Integrated Design Platform to Analyze and Size Planetary Exploration Systems Applied to Lunar Lava Tube Exploration.	D1	IAF SPACE SYSTEMS SYMPOSIUM	Tuesday 20 September	13:10-13:20	#7
69634	A Shrinking Horizon Model Predictive Control for Landing of Reusable Launch Vehicles	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:20:13:30	#7
67636	On-Board Guidance Gain Optimization for Mars EDL Trajectory Shaping	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:00-13:10	#8
69380	The Vertical Landing Vehicles Library (VLVLb): a Modelica-based approach to high-fidelity simulation and verification of GNC systems for reusable rockets	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:10-13:20	#8
71033	Development of Simple PAF: Satellite Emission System and Its Performance Evaluation	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:20:13:30	#8
71632	Conceptual Design of Autonomous Mobile Landing Platform to expedite multiple Crew and Cargo landings.	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:00-13:10	#9
71527	Stochastic Control of Launch Vehicle Upper Stage with Chance-Constrained Splash-Down	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:10-13:20	#9
69867	Morazán Projects (MRZ-SAT): Academic facilities of the Ground Segment of Space Mission.	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:20:13:30	#9
73892	Instantaneous Impact Point prediction for sounding rocket launch safety	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:00-13:10	#10
70100	Punctual Launch Strategy Research of Typhoon Response for Mars Exploration Mission Within Annual Launch Window	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:10-13:20	#10
71193	Control Design for transfer of payload between reusable rocket and lower end of the Skyhook	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:20:13:30	#10
67479	Cislunar Space Transportation System of Large-scale Cislunar Exploration and Exploitation in Future	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:00-13:10	#11
71719	Impact of Life Cycle Assessment considerations on Launch Vehicle Design	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:10-13:20	#11
71742	SIRIUS SPACE SERVICES: A Sustainable and Affordable Access to Space with a range of mini-launch vehicles	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:20:13:30	#11
73270	Design of an in-space transportation vehicle for a Human Exploration mission of Mars	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:00-13:10	#12
72794	Space Exploration Vehicle Emergency & Navigation
“SEVEN”	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND IN	Tuesday 20 September	13:10-13:20	#12

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72639	Internal conceptual system design of an inflatable lunar surface habitat, Eurohab	D3	20th IAA SYMPOSIUM ON BUILDING BLOCKS FOR	Tuesday 20 September	13:20:13:30	#12
70697	Application of emerging innovations in microbiome science to space development and settlement systems	D3	20th IAA SYMPOSIUM ON BUILDING BLOCKS FOR	Tuesday 20 September	13:00-13:10	#13
70899	Planetary Foundation Services Infrastructure: Current Status and Development Pathways	D3	20th IAA SYMPOSIUM ON BUILDING BLOCKS FOR	Tuesday 20 September	13:10-13:20	#13
67389	Reconfigurable Robot for On-Orbit-Servicing modular satellites.	D3	20th IAA SYMPOSIUM ON BUILDING BLOCKS FOR	Tuesday 20 September	13:20:13:30	#13
72405	Cybersecurity and Space: Ensuring a Secure Space at the Operational System Level	D5	55th IAA SYMPOSIUM ON SAFETY, QUALITY AND	Tuesday 20 September	13:00-13:10	#14
70654	Regulating the Liability of Future In-Situ Space Operations	D6	IAF SYMPOSIUM ON COMMERCIAL SPACEFLIGHT	Tuesday 20 September	13:10-13:20	#14
72505	A Feasibility Analysis of Dream Chaser Landing in an Airport in Nepal	D6	IAF SYMPOSIUM ON COMMERCIAL SPACEFLIGHT	Tuesday 20 September	13:20:13:30	#14
71187	rapid conjunction screening based collision avoidance for mega-constellations with coverage and thrust constraints	D6	IAF SYMPOSIUM ON COMMERCIAL SPACEFLIGHT	Tuesday 20 September	13:00-13:10	#15
73977	Opportunities for Space Exploration under the United Nations Access to Space for All Initiative: Achievements in 2021-2022	D6	IAF SYMPOSIUM ON COMMERCIAL SPACEFLIGHT	Tuesday 20 September	13:10-13:20	#15
72372	Experience and impact of the Aerospace Engineering Group (GIA) of the Universidad de Costa Rica for the university community as to the development of the aerospace	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOS	Tuesday 20 September	13:20:13:30	#15
72190	Effective science communication strategies to promote space science via social media	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOS	Tuesday 20 September	13:00-13:10	#16
68839	New Astronomy with the Unistellar Network	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOS	Tuesday 20 September	13:10-13:20	#16
69118	Communication in a Remote World: How do we talk when we haven't met each other?	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOS	Tuesday 20 September	13:20:13:30	#16
71009	Sustainable Development through Space Education for Children in Developing Countries	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOS	Tuesday 20 September	13:00-13:10	#17
67954	The Stuttgart Space Station Design Workshop – current status	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOS	Tuesday 20 September	13:10-13:20	#17
70879	Teaching an Interdisciplinary Course to a Multidisciplinary Audience: Social Studies of Outer Space at the Jagiellonian University	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOS	Tuesday 20 September	13:20:13:30	#17
72481	LDE universities Space for Science & Society Programme	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOS	Tuesday 20 September	13:00-13:10	#18
71605	Do Look Up: A young generation's perspective on Planetary Defense	E10	IAF SYMPOSIUM ON PLANETARY DEFENSE AND N	Tuesday 20 September	13:10-13:20	#18
71048	Addressing imminent impactors threat from distant retrograde orbits (DRO).	E10	IAF SYMPOSIUM ON PLANETARY DEFENSE AND N	Tuesday 20 September	13:20:13:30	#18
71037	Near-Earth Asteroids Short-Term Early Warning and Defense Based on Sun-Earth Halo Orbit	E10	IAF SYMPOSIUM ON PLANETARY DEFENSE AND N	Tuesday 20 September	13:00-13:10	#19
67849	The Brazilian Space Program: an analysis on innovation, space exploration and its socioeconomic benefits	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULA	Tuesday 20 September	13:10-13:20	#19
74153	French Views and Actions in Space	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULA	Tuesday 20 September	13:20:13:30	#19
68503	Mexico and its resources for the preparation of the next space generation.	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULA	Tuesday 20 September	13:00-13:10	#20
71070	Policy, regulatory and diplomatic perspectives on threshold-based models for space safety and sustainability	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULA	Tuesday 20 September	13:10-13:20	#20
69675	Steering Space Activities for Global Benefits:a Critical Study of the Asia-Pacific Framework for Prospective Space Development	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULA	Tuesday 20 September	13:20:13:30	#20
73783	Cislunar Space Domain Awareness (SDA)	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULA	Tuesday 20 September	13:00-13:10	#21
74287	Importance of Green Finance with Private entities; involvement in the Space Economy	E6	IAF BUSINESS INNOVATION SYMPOSIUM	Tuesday 20 September	13:10-13:20	#21
67705	managing a student-led team to a successful space mission: a focus on wellbeing	E6	IAF BUSINESS INNOVATION SYMPOSIUM	Tuesday 20 September	13:20:13:30	#21
72656	Enterprise Risk Management and Internal Audit Collaboration in Aerospace and Defense	E6	IAF BUSINESS INNOVATION SYMPOSIUM	Tuesday 20 September	13:00-13:10	#22
68864	Scenario Planning for the Future of Innovation in Space and Emerging Technologies	E6	IAF BUSINESS INNOVATION SYMPOSIUM	Tuesday 20 September	13:10-13:20	#22
73744	An analysis of the Republic of Korea's space industry ecosystem	E6	IAF BUSINESS INNOVATION SYMPOSIUM	Tuesday 20 September	13:20:13:30	#22
70701	Century-Scale Space Engagement	E6	IAF BUSINESS INNOVATION SYMPOSIUM	Tuesday 20 September	13:00-13:10	#23
72081	A Case Study of Small Launch Vehicle Technology Roadmapping Using A Workshop-based Approach	E6	IAF BUSINESS INNOVATION SYMPOSIUM	Tuesday 20 September	13:10-13:20	#23
72388	How to Build a Board of Advisors to Propel your Space Startup to Success	E6	IAF BUSINESS INNOVATION SYMPOSIUM	Tuesday 20 September	13:20:13:30	#23
73351	Waste Studies; Insight Into Orbital Debris: A United Arab Emirates Case Study	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPAC	Tuesday 20 September	13:00-13:10	#24
72091	The Protection of a Dark and Quiet Sky Through Humankind's Legal Lens	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPAC	Tuesday 20 September	13:10-13:20	#24
71148	Sustainable development and scientific research in outer space	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPAC	Tuesday 20 September	13:20:13:30	#24
67839	Human planetary settlements: legal aspects of future celestial governance	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPAC	Tuesday 20 September	13:00-13:10	#25
70403	Combining Air and Space or How to Start Regulating Space Navigation at the International Level?	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPAC	Tuesday 20 September	13:10-13:20	#25
67999	The New Brazilian National Program of Space Activities - PNAE (2022-2031): what to expect	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPAC	Tuesday 20 September	13:20:13:30	#25
69768	Could the Working Paper Lead to a Unified Legal Regime?: To Resolve Legal Challenges with Respect to Aerospace Objects	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPAC	Tuesday 20 September	13:00-13:10	#26
70669	Human Heritage in Space: Untapped Potential	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPAC	Tuesday 20 September	13:10-13:20	#26
67270	Ensuring cybersecurity in spacecraft software development processes: experience from international Cooperation	E9	IAF SYMPOSIUM ON SECURITY, STABILITY AND S	Tuesday 20 September	13:20:13:30	#26
69888	International norm promotion strategies for space traffic management	E9	IAF SYMPOSIUM ON SECURITY, STABILITY AND S	Tuesday 20 September	13:00-13:10	#27
72540	The contribution of space objects insurance regulations to Space Traffic Management	E9	IAF SYMPOSIUM ON SECURITY, STABILITY AND S	Tuesday 20 September	13:10-13:20	#27

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74411	BEXUS 30, SimLE Stardust - Investigation of Microbes in the Stratosphere	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Tuesday 20 September	13:20:13:30	#27
74408	Investigation of the impact of the rocket's suborbital flight on biofilm, enzymes and biosynthesis on autonomous, modular and scalable platform for conducting exper	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Tuesday 20 September	13:00-13:10	#28
74509	Human Performance Training for Space Analog Missions	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Tuesday 20 September	13:10-13:20	#28
74467	Transcriptomic Analysis of Angiogenesis on Datasets Derived from Experiments Performed on Mice in Space	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Tuesday 20 September	13:20:13:30	#28
74538	Spinner - Centrifugal Fluid Transfer in Microgravity	A2	IAF MICROGRAVITY SCIENCES AND PROCESSES	Tuesday 20 September	13:00-13:10	#29
74533	LARES 2 mission in orbit: first tracking result after the launch.	A2	IAF MICROGRAVITY SCIENCES AND PROCESSES	Tuesday 20 September	13:10-13:20	#29
74475	Development of a Low-Cost Apparatus to Assess Auditory Cognitive Responses in Microgravity Flights	A2	IAF MICROGRAVITY SCIENCES AND PROCESSES	Tuesday 20 September	13:20:13:30	#29
74434	Microphones for future Mars missions and beyond.	A3	IAF SPACE EXPLORATION SYMPOSIUM	Tuesday 20 September	13:00-13:10	#30
74588	The Latest Activities and Innovations for the Parachute-free Landing Analysis Efforts for Mars Sample Return Vehicle	A3	IAF SPACE EXPLORATION SYMPOSIUM	Tuesday 20 September	13:10-13:20	#30
74519	quick setup lunar/martian base camp implanted into lava tube derived from jasmine dimples and low curvature folding	A3	IAF SPACE EXPLORATION SYMPOSIUM	Tuesday 20 September	13:20:13:30	#30
74561	DESIGN OF A MULTIPLE ASTEROID SAMPLE RETURN MISSION USING AN OPTIMAL FREE-RETURN FLYBY TRAJECTORY	A3	IAF SPACE EXPLORATION SYMPOSIUM	Tuesday 20 September	13:00-13:10	#31
74448	Searching for Technosignatures in Anomalous TESS Light Curves: Database and Follow-up Techniques	A4	51st IAA SYMPOSIUM ON THE SEARCH FOR EXTR	Tuesday 20 September	13:10-13:20	#31
74495	neurofeedback eeg lowers the stress reaction in psychomotoric abilities execution level during analog moon mission	A5	25th IAA SYMPOSIUM ON HUMAN EXPLORATION C	Tuesday 20 September	13:20:13:30	#31
74473	Quantifying Spacecraft Demise Byproducts in the Era of Mega-Constellations	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Tuesday 20 September	13:00-13:10	#32
74395	Deep Learning Based Reentry Prediction of Space Debris	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Tuesday 20 September	13:10-13:20	#32
74421	space debris limitation in LEO: a survey of responsibility and incentives from the U.S. business perspective	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Tuesday 20 September	13:20:13:30	#32
74599	amplification of the energy of cosmic relic neutrinos	A7	IAF SYMPOSIUM ON FUTURE SPACE ASTRONOMY	Tuesday 20 September	13:00-13:10	#33
74577	A new data set of multi-mission/multi-frequency SAR data for maritime monitoring: first results and critical analysis	B1	IAF EARTH OBSERVATION SYMPOSIUM	Tuesday 20 September	13:10-13:20	#33
74562	ESA Opportunity: Business Ideas for Lunar Economy Applications	B5	IAF SYMPOSIUM ON INTEGRATED APPLICATIONS	Tuesday 20 September	13:20:13:30	#33
74549	Relative Motion Between Hyperbolic Trajectories	C1	IAF ASTRODYNAMICS SYMPOSIUM	Tuesday 20 September	13:00-13:10	#34
74504	Design and Study of Satellite Constellations in Frozen Low Lunar Orbits	C1	IAF ASTRODYNAMICS SYMPOSIUM	Tuesday 20 September	13:10-13:20	#34
74494	A Lambert's Problem Solution via the Koopman Operator with Orthogonal Polynomials	C1	IAF ASTRODYNAMICS SYMPOSIUM	Tuesday 20 September	13:20:13:30	#34
74438	A multisensor data fusion approach for spacecraft control experiments with the KNATTE platform	C1	IAF ASTRODYNAMICS SYMPOSIUM	Tuesday 20 September	13:00-13:10	#35
74567	Space Architecture & Advanced Material Habitat Structures	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Tuesday 20 September	13:10-13:20	#35
74502	Thermal Design Optimization for Microsatellite Constellations	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Tuesday 20 September	13:20:13:30	#35
74483	Analysis of natural fiber materials with epoxy matrices in the aerospace sector.	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Tuesday 20 September	13:00-13:10	#36
74459	CIO PRESENTATION TO DEEP SPACE FOOD CHALLENGE NASA & CSA	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Tuesday 20 September	13:10-13:20	#36
74539	Co-simulation of Space Robotic Contact Tasks Using Reduced Flexible Model	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Tuesday 20 September	13:20:13:30	#36
74527	Towards new hypergolic hydrogen peroxide-based bipropellants	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:00-13:10	#37
74596	Post Hot Fire Analysis of the World's Most Powerful Student-Built Rocket Engine.	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:10-13:20	#37
74526	A new firing test campaign on the 1000 N thrust-class Hyprob hybrid rocket engine	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:20:13:30	#37
74520	Controlled Combustion of Solid Rocket Propellants with Electromechanical Subsystems	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:00-13:10	#38
74522	overview of testing and manufacturing of an ablative combustion chamber for a liquid bi-propellant rocket engine	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:10-13:20	#38
74469	Green propellant for space applications: Lessons learned	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:20:13:30	#38
74433	Survey on the green propulsion systems: from the lab scale to the pilot scale-up, HAN is a good example	C4	IAF SPACE PROPULSION SYMPOSIUM	Tuesday 20 September	13:00-13:10	#39
74488	Development of a Cryo-Dock for Refueling in Low Earth Orbit	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND INF	Tuesday 20 September	13:10-13:20	#39
74424	Development of a robotic Fluid Transfer interface based on RIDER connector	D3	20th IAA SYMPOSIUM ON BUILDING BLOCKS FOR	Tuesday 20 September	13:20:13:30	#39
74593	Space Strategies for Emerging Actors - \&a Portfolio-based Approach	D4	20th IAA SYMPOSIUM ON VISIONS AND STRATEGI	Tuesday 20 September	13:00-13:10	#40
74544	Geospatial Medicine and Navigational tools as a way to transcend linear study strategies in the light of Ameloblastic Carcinoma. A new approach to the Epidemiological tr	D4	20th IAA SYMPOSIUM ON VISIONS AND STRATEGI	Tuesday 20 September	13:10-13:20	#40
74514	impact of artificial satellites constellations on honeybees, and on climate change	D4	20th IAA SYMPOSIUM ON VISIONS AND STRATEGI	Tuesday 20 September	13:20:13:30	#40
74580	Evaluating a pharmacy to a space analog station	D5	55th IAA SYMPOSIUM ON SAFETY, QUALITY AND I	Tuesday 20 September	13:00-13:10	#41
74430	Space is for Everyone: Curriculum for Children on Spaceports and Careers	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOS	Tuesday 20 September	13:10-13:20	#41
74606	Development of a semi-autonomous low-cost rover for participation in the European Rover Challenge (ERC) 2022	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOS	Tuesday 20 September	13:20:13:30	#41
74398	establishment of korea's new space agency	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULA	Tuesday 20 September	13:00-13:10	#42
74600	THE HEAT IS ON: WILDFIRES IN PORTUGAL	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Tuesday 20 September	13:10-13:20	#42

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74591	Evaluation of the overview effect experience in a space analog mission	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Tuesday 20 September	13:20:13:30	#42
74471	New Frontiers’s Lunar Space Architecture	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Tuesday 20 September	13:00-13:10	#43
74585	Constructing NASA’s Crew Health and Performance Exploration Analog (CHAPEA): A 3D-Printed Habitat by ICON/BIG	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Tuesday 20 September	13:10-13:20	#43
74581	Space Vehicle Outfitting and Interiors: Establishing a Platform for Collaboration between Industry and Academia as an Accelerator for Human-Centered Design	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Tuesday 20 September	13:20:13:30	#43
74584	Innovation and analysis of early childhood education methods for stimulation, inclusion and reduction of the gender gap for girls and women in the aerospace sector	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Tuesday 20 September	13:00-13:10	#44
74399	Export control after the war in Ukraine: The end of space cooperation as we know it	E6	IAF BUSINESS INNOVATION SYMPOSIUM	Tuesday 20 September	13:10-13:20	#44
74558	NewSpace: The Star Wars Soldier of the Future?	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPACE	Tuesday 20 September	13:20:13:30	#44
74552	Cyber Warfare and Security of Space Assets: Unravelling the Challenges Concerning Attribution in Light of the Viasat Attack	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPACE	Tuesday 20 September	13:00-13:10	#45
72688	The invisible signs of extraterrestrial intelligence	A4	51st IAA SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE	Tuesday 20 September	13:10-13:20	#45
67763	Connecting earthlings: from peace cranes to the Arecibo message.	A4	51st IAA SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE	Tuesday 20 September	13:20:13:30	#45
70215	Theoretical and Practical Modification of Drake’s Equation	A4	51st IAA SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE	Tuesday 20 September	13:00-13:10	#46
71749	What if Oumuamua were an Alien Craft? Research Programs Arising.	A4	51st IAA SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE	Tuesday 20 September	13:10-13:20	#46
67836	Other minds in the Universe?	A4	51st IAA SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE	Tuesday 20 September	13:20:13:30	#46
74573	Horticultural Therapy in space analog missions: learnings to space exploration	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Tuesday 20 September	13:00-13:10	#47
74274	ADR Spacecraft for Debris Reuse and Repurposing	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Tuesday 20 September	13:10-13:20	#47
68223	Direct or not direct, that is the criterion	A5	25th IAA SYMPOSIUM ON HUMAN EXPLORATION OF THE SOLAR SYSTEM	Tuesday 20 September	13:20:13:30	#47
73381	Gxiba-1 Project, observation and the analysis of ash dispersion emitted from active volcanoes in Mexico.	B1	IAF EARTH OBSERVATION SYMPOSIUM	Tuesday 20 September	13:00-13:10	#48
74451	MWIR remote sensing market and technologies	B1	IAF EARTH OBSERVATION SYMPOSIUM	Tuesday 20 September	13:10-13:20	#48
74419	Satellite-based Air Traffic Management (ATM) Systems' Impact on CO2 Emissions	B5	IAF SYMPOSIUM ON INTEGRATED APPLICATIONS	Tuesday 20 September	13:20:13:30	#48
68729	Advanced propulsion for fast lunar missions	A5	25th IAA SYMPOSIUM ON HUMAN EXPLORATION OF THE SOLAR SYSTEM	Tuesday 20 September	13:00-13:10	#49
68826	Brazil's first steps in the commercial space launch sector: what has been done in the past two years?	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND STANDARDS	Tuesday 20 September	13:20:13:30	#49
74446	Interstellar Probe: 15 Years to The Interstellar Medium with An Enhanced NASA Space Launch System	A3	IAF SPACE EXPLORATION SYMPOSIUM	Tuesday 20 September	13:00-13:10	#50
74032	Creating a Terrestrial Rover Prototype for a Titan Rover Concept	A3	IAF SPACE EXPLORATION SYMPOSIUM	Tuesday 20 September	13:10-13:20	#50
69493	Sharjah-Sat-1 Space-to-Ground Telecommunication Operations	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM	Tuesday 20 September	13:20:13:30	#50
67796	An ocular metric standard to assess the performance of ocular system for long duration in-flight use	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:30-13:40	#1
67535	Spaceflight Associated Neuro-ocular Syndrome (SANS): A New Scale To Detect the Incidence and Sequence of SANS findings in a Systematic Review and Meta-Analysis	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:40-13:50	#1
70942	Microgravity-induced alterations of cardiac mechanical activity assessed through the analysis of seismocardiographic signal morphology	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:50-14:00	#1
73710	Space travel and its impact on human physiology: Is space truly for all?	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:00-14:10	#1
74333	Prospect of Agronomics on Martian Regolith: According to Appropriate Mineralogical Regions of both Surface and Lava Tubes.	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:10-14:20	#1
71979	Menstruation in Space	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:20-14:30	#1
71762	Effects of Long-duration Spaceflight on Grey matter of CNS	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:30-14:40	#1
71846	Understand the Origin and evolution of life on Mars via Extremophiles	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:40-14:50	#1
67795	A theory for unexplained vasodilation with elevated noradrenaline levels in spaceflight.	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:50-15:00	#1
73015	Why does central venous pressure go below supine levels in weightlessness?	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:30-13:40	#2
71873	Longitudinal brain connectivity changes after long-duration spaceflight	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:40-13:50	#2
73691	An Examination of Arterial Baroreflex and Heart Rate Variability Following Individualised Artificial Gravity Training in Males and Females	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:50-14:00	#2
69659	The effect of previous spaceflight on otolith-mediated ocular counter-roll in cosmonauts after long duration spaceflight	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:00-14:10	#2
67583	An In Vitro Analysis of Osteoblast Transcription Factors in Low Earth Orbit via ISS Internal Payload and CubeSat Form Factor	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:10-14:20	#2
68908	Body tilt impacts operators’ perception of remote object's orientation	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:20-14:30	#2
69798	Implementing new features in Cimon robot for providing therapeutic assistance to astronauts in situations of extreme stress and depression.	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:30-14:40	#2
71540	The issues of integration and coordination of scientific programs in large-scale international biomedical analog research	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:40-14:50	#2
67518	Effects of Negative Air Ions (NAIs) and Electron Deprivation on Humans and Organisms onboard International Space Station	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:50-15:00	#2
72660	Effects of Hypomagnetic Field and PEMF on Plants for Life Support	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:30-13:40	#3
68013	Deep space missions: Can a Virtual Reality (VR) biofeedback platform based on the Overview Effect experience strengthen interoception, elicit prosocial emotions, and support decision-making?	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:40-13:50	#3
73224	A food and nutrition plan for space flight to Mars - Healthy gut microbiome takes us to Mars!	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:50-14:00	#3

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70416	Testing Lab-on-a-Chip Technology for Culturing Human Cancer Cells under Simulated Microgravity	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:00-14:10	#3
67373	What If We Can’t—A Review of Human Physiological Limitations to Long-term Space Flight and Living in Space	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:10-14:20	#3
72782	Electrophysiological recording of human neuronal networks during suborbital spaceflight	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:20-14:30	#3
71107	COGNITIVE, EMOTIONAL AND SOCIAL SKILLS FOR AEROSPACE AND HIGH-PERFORMANCE TEAMS	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:30-14:40	#3
72370	Abstract: An approach to appropriate and dignified astronaut demise management for Mars missions.	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:40-14:50	#3
71988	Cardiovascular deconditioning during the Artificial Gravity Bed Rest European Space Agency (AGBRESA) study – Insights from 4D-Flow cardiac MRI	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:50-15:00	#3
72543	Muscle atrophy transcriptome phenotype is linked to liver lipid metabolic processes genes expression in mice during spaceflight	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:30-13:40	#4
68840	professional use of parapsychism at space exploration	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:40-13:50	#4
72612	Being in space can induce physiological de-conditioning	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:50-14:00	#4
72595	Exercise countermeasures do not prevent orthostatic intolerance in older adults after two weeks of head-down tilt bed rest	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:00-14:10	#4
69576	Salmonella typhimurium, Shewanella oneidensis MR-1, and ISS-isolated Staphylococcus epidermidis: The Effect of Simulated Micro-, Lunar, and Martian Gravities on Gr	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:10-14:20	#4
72355	Effects of inhibiting bone resorption on muscle atrophy during unloading	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:20-14:30	#4
70505	Experience of Analog Astronauts in Brazil: The Habitat Mars case study	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:30-14:40	#4
71310	serum levels of bone metabolim markers in rats after 7 and 21 days of hindlimb suspension against a background of vitamin d3 intake	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:40-14:50	#4
67262	Key Technological Developments Enabling Human Cosmic Flight	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:50-15:00	#4
73872	microbial colonization of mars	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:30-13:40	#5
74223	Cactus on Mars: Cultivating indigenous plants on Mars: experiments on Habitat Marte space analog station	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:40-13:50	#5
71801	Improvement of subjective time perception and work efficiency in isolation via dedicated biofeedback Android application mSTPA (mobile Subjective Time Perception Ana	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	13:50-14:00	#5
70230	Systematic Review of the Effectiveness of Spaceflight Passive Countermeasures	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:00-14:10	#5
70994	Astroland, a New Cave Space Analog Experience to Investigate Human Performance in Isolated and Confined Environments	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:10-14:20	#5
72425	Magnetic and electric noninvasive transcranial and peripheral stimulation proposed applications for oral physiology and biomechanics research in microgravity. Lesson lea	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:20-14:30	#5
70304	a novel approach to mitigate microgravity induced bone loss in astronauts	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:30-14:40	#5
70875	POSSIBILITY TO EXPAND OPPORTUNITY WITH LARGE-SCALE CENTRIFUGE FACILITY FOR THE INTERNATIOANAL SPACE STATION AND BEYOND	A1	IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM	Wednesday 21 September	14:40-14:50	#5
71735	Microgravity-like effects can be simulated via mental imagery: the case of weight estimation	A2	IAF MICROGRAVITY SCIENCES AND PROCESSES	Wednesday 21 September	14:50-15:00	#5
68484	Surface Electromyography Provides Neuromuscular Insights for Skill Acquisition in Microgravity	A2	IAF MICROGRAVITY SCIENCES AND PROCESSES	Wednesday 21 September	13:30-13:40	#6
69949	Lunar Crater Radio Telescope and Critical Engineering Issues: Probing Through the Dawn of the Universe	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:40-13:50	#6
69242	Directed Energy, Mission to a Nearby Star System	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:50-14:00	#6
72669	A soft, bioinspired swimming space probe: a mission concept for the exploration of the outer solar system's ocean worlds.	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:00-14:10	#6
70015	Quantum technology, artificial intelligence, machine learning, and additive manufacturing in the Asia-Pacific for Mars exploration	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#6
72323	Low-Cost Tensegrity Drop Module	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#6
72458	The Tumbleweed Mission: Enabling Novel Mars Data Sets through Low-Cost Rover Swarms	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:30-14:40	#6
67957	Mars Hard Lander: a parametric study	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:40-14:50	#6
74215	Development of Scientific Objectives and Mission Profile for a Titan Rover Concept	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:50-15:00	#6
72804	Biomechanics Expedition Technologies	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:30-13:40	#7
69534	Geopolymer Lunar Concrete under Reduced-Pressure Curing
and Vacuum Exposure	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:40-13:50	#7
71889	LuNaDrone: nano drone for Lunar Exploration	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:50-14:00	#7
73284	Detecting and investigating space weather events around Mars with EDAC counters	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:00-14:10	#7
67313	Force Field Lunar Dust Barrier for Sustainable Environment on Moon	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#7
67398	Airfoil Optimization with Analytical Simulations for Application of Ground Effect on Mars	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#7
73371	BuzzCraft: Evolution of Sturdy Cislunar Architecture in Support of 2024 Artemis Lunar Landing and Beyond	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:30-14:40	#7
68431	X-Ray fluorescence for Moon exploration and exploitation	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:40-14:50	#7
72832	An on-board AI-aided GNC for Safe Lunar Landing via Particle Swarm and GPU-optimized Convolutional Neural Networks	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:50-15:00	#7
73308	Rapid Prototyping Atmosphinder: Kite Propulsion Rover	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:30-13:40	#8
68650	A novel approach based on shadow of solar array for autonomous navigation of spacecraft for asteroid exploration	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:40-13:50	#8
69272	3D Shape Analysis of Lunar Regolith Simulants	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:50-14:00	#8

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70082	Design of a Dust Counter for the Earth-Moon Challenge Payankeu sailcraft	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:00-14:10	#8
73088	Assessment of the Payloads that can be Delivered to the Moon from UK Spaceports	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#8
72700	Experimental investigation of lunar regolith simulants mixing other materials in selective laser processing	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#8
72438	Lunar regolith particle classification using a deep learning approach	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:30-14:40	#8
72437	Scientific analysis and accessibility of potential landing sites for ESA's PROSPECT instrument	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:40-14:50	#8
73512	Helios-Lune Tranquillitas: Artemis III Exploration Mission with Retrieval of Solar Activity Records	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:50-15:00	#8
70379	The Enceladus's Diverbot: - Its design, Purpose and advancements	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:30-13:40	#9
72361	Design and Testing of a Prototype Electrodynamic Regolith Conveyor for Lunar ISRU	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:40-13:50	#9
70581	Analysis of Lunar Rover Radiators's Heat Balance using Thermal Circuit Theory and Impact of Lunar Regolith on its Performance	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:50-14:00	#9
71795	High performance Lunar landing simulations	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:00-14:10	#9
72104	Design of a spherical UGV for space exploration	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#9
73949	LOONY: laser ranging from the Moon for ultra-high accuracy tracking of satellites and debris in lunar orbit	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#9
72108	An Indoor Lunar Analogue Facility for Testing Lunar Heterogeneous Swarm Robots	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:30-14:40	#9
69586	Experimental Analysis of the Performance of a Slim Meshed Wheel Design for a Micro Lunar Rover Application	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:40-14:50	#9
68794	Ceres Lander Exploration and Sample Return Mission	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:50-15:00	#9
70012	Drill and Dive Expedition for Enceladus Exploration	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:30-13:40	#10
68956	Trade-off and optimization for a thermal lunar water extraction system	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:40-13:50	#10
69999	Envelope, Propulsion and Navigation For A Martian Exploration Airship	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	13:50-14:00	#10
72100	OMNICAM: Bifocal Panoramic Camera for Human and Robotic Exploration	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:00-14:10	#10
70512	Design of a hardware protection for Raspberry PI to withstand SEU from solar winds on the Moon surface during long-term missions	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#10
68561	System of Quadruple Rover for Lunar Habitat 3d Printing Construction	A3	IAF SPACE EXPLORATION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#10
68725	Numerical Simulation of Cardiovascular Deconditioning in Deep Space Human Missions.	A5	25th IAA SYMPOSIUM ON HUMAN EXPLORATION C	Wednesday 21 September	14:30-14:40	#10
72710	Celestial Space Debris	A5	25th IAA SYMPOSIUM ON HUMAN EXPLORATION C	Wednesday 21 September	14:40-14:50	#10
71124	Development framework for Martian infrastructure within planetary resources	A5	25th IAA SYMPOSIUM ON HUMAN EXPLORATION C	Wednesday 21 September	14:50-15:00	#10
68257	Development of an Open Source Modelling Package for Thermal Balance of Crewed Mars Habitats	A5	25th IAA SYMPOSIUM ON HUMAN EXPLORATION C	Wednesday 21 September	13:30-13:40	#11
72002	Space settlement design in the moon's quasi-frozen orbit	A5	25th IAA SYMPOSIUM ON HUMAN EXPLORATION C	Wednesday 21 September	13:40-13:50	#11
69988	Determination of design parameters of the system for combined de-orbiting of the upper stages of Cyclone-3 launch vehicle from low-Earth orbits	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:50-14:00	#11
72453	from fragment to 3d model - imaging debrisat fragments	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:00-14:10	#11
69799	Cleaning Large and Medium Sized Space debris with robots using swarm intelligence	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:10-14:20	#11
71255	Developing a Sustainable Space Roadmap for Scotland	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:20-14:30	#11
69404	ArianeGroup GEOTracker Network Enhancement Operational Examples	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:30-14:40	#11
72306	Developing a data fusion concept for radar and optical ground based SST station.	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:40-14:50	#11
72021	When theory meets practice: resolving legal obstacles for the removal of space debris with lex specialis rule	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:50-15:00	#11
68597	thermal optimization of trajectories of space debris removal into the earth's atmosphere	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:30-13:40	#12
71663	Image Recognition and Motion Estimation Method with Interclass Variance Optimization for Space Targets	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:40-13:50	#12
70911	How will COPLA work within EU SST?	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:50-14:00	#12
70129	Composite active disturbance rejection control and residual vibration suppression for free-floating space robots with elastic joints and flexible links compound active distur	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:00-14:10	#12
71272	Overview of the Space Situational Awareness (SSA) and Active Debris Removal (ADR) market prospects and key drivers	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:10-14:20	#12
68066	Analysis of Lunar Impacts for Orbital Debris Mitigation	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:20-14:30	#12
70995	Laser based Active Debris Removal Technology for ENVISAT	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:30-14:40	#12
67976	A Model of Space Debris Metal Injection into the Mesosphere-Lower Thermosphere	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:40-14:50	#12
70965	Real-time conjunction assessment and maneuver planning in SpaceMap	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:50-15:00	#12
71532	Hyperspectral Classification of Space Objects	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:30-13:40	#13
68958	Using unused launcher capacity to de-orbit LEO space debris	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:40-13:50	#13
73839	Large data collection through innovative optical systems for angles-only orbit determination	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:50-14:00	#13

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70583	Efficient Sensor Tasking for Space Situational/Domain Awareness	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:00-14:10	#13
69243	Challenges around SSA Data Formats: What prevents efficient sharing of SSA data?	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:10-14:20	#13
67831	Analyzing Latest SDA Data to Hypothetically Allocate Number of On-Ground and In-Space Optical Sensors per Country/Sector through Implementation of Small and Long	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:20-14:30	#13
67765	Streamlining GEO SSA Data Acquisition, Processing, and Contribution from an Amateur Astronomers' Perspective using 1m Aperture Telescopes	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:30-14:40	#13
67874	A key role for Brazil in international Orbital Debris detection and tracking Strategies.	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:40-14:50	#13
67201	The economic context of the Recycler spacecraft, a tool to overcome the space debris free-rider problem	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:50-15:00	#13
68574	System Design and Analysis of CubeSat for Active Debris Removal in LEO using Artificial Swarm intelligence	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:30-13:40	#14
72652	Initial Conditions of a Novel CubeSat during Atmospheric Re-Entry	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:40-13:50	#14
73092	Performance and sensitivity analysis of machine learning-based approaches for resident space object characterization	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:50-14:00	#14
70314	Satellite and other star-like object detection, recognition and (re-)identification via machine learning from earth-bound optical observations for fast orbit determination of e	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:00-14:10	#14
68551	Synoptes - Precise GNSS Timestamping Device for Space Surveillance and Tracking Observations	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:10-14:20	#14
73359	Considerations on the space debris risk mitigation in the perspective of a human expansion into space.	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:20-14:30	#14
69582	An actor network theory approach to political challenges in active debris removal	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:30-14:40	#14
71536	Image Enhancement for Space Surveillance and Tracking	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:40-14:50	#14
67923	Regulating for Debris Mitigation: Proposal for an Orbital Activities Code	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:50-15:00	#14
68521	Massive GPU Parallelisation for Cislunar Debris Mitigation Analyses	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:30-13:40	#15
73640	Environmental Lessons Learned From the Maritime Domain: The Dangers of Flags of Convenience	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:40-13:50	#15
67572	Incentivizing Investment and Research in Space Debris Mitigation and Removal through Domestic Licensing	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:50-14:00	#15
71271	A Novel Method for the Computation of Satellite Collision Probability Based on Extreme Value Theory	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:00-14:10	#15
71287	Space Observation by Australia Telescope Compact Array: Performance Characterisation using GPS Satellite Observation	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:10-14:20	#15
69306	Mitigation of Nuclear Space Debris using Advanced Vitrification and Pot Calcination Process: Mission Design and Feasibility study	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:20-14:30	#15
72734	Machine learning for vision-based pose estimation for proximity operations.	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:30-14:40	#15
70850	a multi-mode navigation method for space robots to capture a tumbling target	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:40-14:50	#15
73182	Lightweight neural network based small space debris saliency detection in video	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:50-15:00	#15
72291	ATLAS: Deployment, Control Platform and First RSO Measurements.	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:30-13:40	#16
73762	Phase space description of the debris' cloud dynamics through a continuum approach	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:40-13:50	#16
73958	Commercial, political and technical challenges of space debris data-sharing: a conceptual framework	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:50-14:00	#16
74064	VIS-TIR cameras data fusion to enhance relative navigation during In Orbit Servicing operations	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:00-14:10	#16
69218	Compact ground station for satellite laser ranging and identification	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:10-14:20	#16
72214	Light curve analysis in support of ClearSpace Clear active debris removal mission	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:20-14:30	#16
68799	A-contrario detection and tracking from optical telescope data	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:30-14:40	#16
73624	A re-entry analysis software module for Space Surveillance and Tracking operations	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:40-14:50	#16
70301	A Novel Degeneration and Deorbiting Technique for Space Debris Removal	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	14:50-15:00	#16
69003	Multi-Telescope Observation Station test campaign results	A6	20th IAA SYMPOSIUM ON SPACE DEBRIS	Wednesday 21 September	13:30-13:40	#17
71019	Astroparticle Experiments to Improve the Radiation Health Risk Assessment for Humans in Space Missions	A7	IAF SYMPOSIUM ON ONGOING AND NEAR FUTURE	Wednesday 21 September	13:40-13:50	#17
68449	Concept Study For Observing Galactic Neutrinos in Neptune's Atmosphere	A7	IAF SYMPOSIUM ON ONGOING AND NEAR FUTURE	Wednesday 21 September	13:50-14:00	#17
69023	Understanding a new path of commercialization for space science data production through the prism of Earth observation trajectory: implications on institutional strategies	A7	IAF SYMPOSIUM ON ONGOING AND NEAR FUTURE	Wednesday 21 September	14:00-14:10	#17
73636	Methodology based on machine learning and deep learning to predict dengue transmissions.	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#17
68877	Light-1 CubeSat Detector (RAAD) for the study of Terrestrial Gamma-Ray Flashes: Space Qualification, First Data Set, and Correlations with Lightning	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#17
69266	method and computational algorithms for atmospheric correction of regional satellite images. restoration of the spectral brightness of the earth's surface	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:30-14:40	#17
69142	Robust Efficient Hardware Accelerator for Neural Network on Embedded System	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:40-14:50	#17
72860	Analysis and design of future multiple satellites formation flying L-band missions in low Earth orbit	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:50-15:00	#17
68955	reference mirror misalignment of cold atom interferometers on satellite-based gravimetry missions	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	13:30-13:40	#18
68394	Bridging the gap: Recent advances in SmallSat Cal/Val technology (throughout the mission life cycle)	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	13:40-13:50	#18
73884	Improving the accuracy of flood risk maps by fusing SAR, optical imagery, digital elevation model and open geospatial data: A case study of Douala Estuary in Cameroon	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	13:50-14:00	#18

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73780	Fast Computation of Area Target Visibility to Remote Sensing Satellites	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:00-14:10	#18
69464	Experiment Setup for an Airborne GNSS-Reflectometry Experiment	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#18
68427	Inlet Sectional Analysis and Optimization of Ramjet Engine	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#18
71433	design and testing of deployable telescope with segmented aperture dedicated for cubesat standard	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:30-14:40	#18
70467	Earth Observation satellites combined with in situ data for modelling the environmental and anthropogenic water stressors in Chennai, India	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:40-14:50	#18
72608	Hyperspectral remote sensing satellites implementation as payload focus on the sustainable development goals	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:50-15:00	#18
72758	NATURAL HAZARDS AND DISASTERS – OVERVIEW OF INTERNATIONAL STRATEGIES FOR RISK MANAGEMENT AND SUSTAINABLE DEVELOPMENT	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	13:30-13:40	#19
73644	Development of an algorithm based on deep learning for the classification of oceanic geophysical phenomena.	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	13:40-13:50	#19
67677	Autonomous three-axis relativistic gravitational gradientogravimeter for the Gravisat spacecraft.	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	13:50-14:00	#19
69156	reconstruction of incoherent scatter radar vertical electron density profiles using regression trees	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:00-14:10	#19
68929	H-Infinity controller design and HIL validation approach for high agility satellites with flexible appendages	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#19
72649	Proposal of a small satellite constellation for remote sensing of red tide and its potential impact on the local economy of Costa Rica.	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#19
70183	identification and documentation of encroachments in coastal regulation zones using remote sensing techniques.	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:30-14:40	#19
69041	Satellite-Based Assessment of Sinkhole Hazard Occurrence	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:40-14:50	#19
71960	Laser Cryocooler development for space applications	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:50-15:00	#19
73064	The “Daffodil” Mission: GNSS-Reflectometry with a 1.5U CubeSat	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	13:30-13:40	#20
70439	TOTORO Project: Student mission showing feasibility of studying Earth's magnetosphere on board a stratospheric balloon	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	13:40-13:50	#20
74009	An evaluation of Earth Observation data as a potential tool to forecast and manage resources during the Covid-19 pandemic	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	13:50-14:00	#20
73936	Visual Servoing of an Earth observation satellite of the LION constellation	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:00-14:10	#20
74119	Remote sensing and Earth Observation to track Child trafficking and girl-child slavery	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#20
73700	Remote Sensing Formation Design exploiting Coverage Overlap Area Parameters	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#20
70574	Reflection of EO Data in Blue Economy: Sustainable Growth	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:30-14:40	#20
74103	Delimitation of light pollution through satellite images for the protection of endemic species and energy savings.	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:40-14:50	#20
69792	The HyperAngular Rainbow Polarimeter (HARP) CubeSat Demonstration Overview: Data Accuracy, Availability, and Lessons Learned for Small Payload Remote Sensing	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	14:50-15:00	#20
69398	Comparison of Data Processing Methods for GNSS Reflectometry	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	13:30-13:40	#21
72197	Robustifying the deployment of the in-orbit AI for Earth observation	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	13:40-13:50	#21
71842	magnetotorquers “mtb” design and realizationfor nanosatellite applications	B1	IAF EARTH OBSERVATION SYMPOSIUM	Wednesday 21 September	13:50-14:00	#21
71639	Optimization of High-Throughput Satellite System for Data Relay Service towards LEO Satellites	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Wednesday 21 September	14:00-14:10	#21
70056	Reinforcement learning aided path planning algorithm for multi-UAV based in-situ satellite terminal antenna evaluation system	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Wednesday 21 September	14:10-14:20	#21
73581	Cislunar Position, Navigation, and Timing (PNT) – International Relations and Policy Implications	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Wednesday 21 September	14:20-14:30	#21
67266	Comparison of 2X2 Patch Antenna Due to Temperature Variation in Experimental Sounding Rockets	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Wednesday 21 September	14:30-14:40	#21
73947	small satellite c-band microstrip antenna array for inter-satellite communications	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Wednesday 21 September	14:40-14:50	#21
72971	Improvements in the thermal behaviour of a CubeSat GNSS-R system	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Wednesday 21 September	14:50-15:00	#21
71025	performance evaluation of improved self-positioning method based on crater size for lunar landing vehicles	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Wednesday 21 September	13:30-13:40	#22
73498	On the exploitation of light degrees of freedom for the Starshot sail transmitters	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Wednesday 21 September	13:40-13:50	#22
69614	Calculating Station Bias for Uncalibrated GNSS Stations Using Close-Range Calibrated GNSS Station Data	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Wednesday 21 September	13:50-14:00	#22
68381	Diurnal and Seasonal Variations of GNSS based Ionospheric Slab Thickness over Arabian Peninsula	B2	IAF SPACE COMMUNICATIONS AND NAVIGATION	Wednesday 21 September	14:00-14:10	#22
70854	Best day ever! Imaginaries of commercial space travel	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Wednesday 21 September	14:10-14:20	#22
70774	Updating Subsystem-Level Fault-Symptom Relationships for Temperature and Humidity Control Systems with Redundant Functions	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Wednesday 21 September	14:20-14:30	#22
69201	testing of an augmented reality tool for geological fieldwork during two analogue missions	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Wednesday 21 September	14:30-14:40	#22
74109	Neutral-buoyancy tests of the Advanced Crew Medical Restraint for commercial human spaceflight	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Wednesday 21 September	14:40-14:50	#22
72831	What came first, space safety or medical standards?	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Wednesday 21 September	14:50-15:00	#22
67845	Privacy In Space	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Wednesday 21 September	13:30-13:40	#23
70315	lessons learned on the implementation of probabilistic graphical model-based digital twins: a space habitat study	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Wednesday 21 September	13:40-13:50	#23
69072	Human Autonomy Teaming for Task Execution Support in Next Generation Deep Space Habitats	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Wednesday 21 September	13:50-14:00	#23

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72414	Detection and monitoring of affective states during a 4-month confinement in a space-like environment	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Wednesday 21 September	14:00-14:10	#23
73944	Design of the crew cabin of a suborbital plane for 6 passengers based on the design for the Student Aerospace Challenge competition	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Wednesday 21 September	14:10-14:20	#23
74133	CPR And Rescuer's Position In Microgravity	B3	IAF HUMAN SPACEFLIGHT SYMPOSIUM	Wednesday 21 September	14:20-14:30	#23
71644	Hardware and Software Redundancy Concepts on-board of SONATE-2	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:30-14:40	#23
72221	Miniature Hall Effect Thruster based Cubesat for Lunar and Mars Orbiter Exploration Spacecraft with Onboard Closed Cathode Hydrogen-Oxygen Fuel Cell System.	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:40-14:50	#23
73630	Analysis of Sun-acquisition Magnetic Attitude Control & for Nanosatellite Using a Hardware-in-the-loop Satellite Simulator	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:50-15:00	#23
73774	Analysis of Attitude Control System Flight Results of the Earth-Remote Sensing Nanosatellite OrbiCraft-Zorkiy	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	13:30-13:40	#24
71351	Effective CubeSat Designs for Passive Attitude Stabilization using Aerodynamic Drag	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	13:40-13:50	#24
71002	VIBE - novel self-diagnostic system based on AI and dedicated for smallsats	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	13:50-14:00	#24
73127	Preliminary study about the implementation of a structural battery on a 1U CubeSat	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:00-14:10	#24
73073	Distributed On-Board Computing on Scientific CubeSat Missions	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:10-14:20	#24
73099	Moon to Moon services & Lunar Pathfinder and future Lunar Comms and Nav constellation to connect lunar assets to each other and back to Earth, starting 2025	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:20-14:30	#24
71056	The Oracle Ocean Health Monitoring Mission	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:30-14:40	#24
73913	Minimizing Downlink Time of Hyperspectral Images on a CubeSat by performing classification based on Convolutional Neural Networks	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:40-14:50	#24
68691	Experimental Testing of Range-based Relative Positioning Strategies for a Swarm of Centimetre-scale Femtospacecraft	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:50-15:00	#24
73564	Preliminary Design of the Radiation Protection for the small satellite ROMEO in the lower Medium Earth Orbit	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	13:30-13:40	#25
71109	stop analysis of small astronomical satellite payloads	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	13:40-13:50	#25
69802	Simulation of a space vehicle on an approach mission to a target in low and medium orbit using hypergolic propellant system and light and medium range detection methods	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	13:50-14:00	#25
69480	LOVE: a modular architecture of altitude-control balloon for Venus exploration missions	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:00-14:10	#25
71430	Experimental Results from the Satellite for Orbital Aerodynamics Research (SOAR) Mission	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:10-14:20	#25
69307	Spacecraft as a Service, an open-source approach	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:20-14:30	#25
70045	Next on the pad: the E-band technology demonstration CubeSat EIVE	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:30-14:40	#25
73063	Line-of-sight navigation observability analysis for near-Earth asteroids exploration with cubesat	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:40-14:50	#25
67182	The software architecture of proximity space communication for small Mars mission	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:50-15:00	#25
73109	A Thrusted Small Satellite using Hall-effect for Smart Deployment of CubeSat Constellations	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	13:30-13:40	#26
68899	Experience Feedback on Effects of In-Orbit FPA Temperature on Radiometric Performance of Alsat-1B Optical Imager	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	13:40-13:50	#26
73227	Aurora: A Small Satellite Constellation for Auroral Oval Monitoring	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	13:50-14:00	#26
72984	A Small Deployable Cassegrain Reflector Antenna for Smallsat Applications	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:00-14:10	#26
71116	Electrical and Thermal Battery Management to Support Deep-Space Exploration: LICIAcube Example	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:10-14:20	#26
71406	Magnetic Cleanliness Verification of Miniature Satellites for High Precision Pointing	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:20-14:30	#26
74348	Nanosatellite Proposal for Monitoring the South Atlantic Magnetic Anomaly (SAMA) and Plasmaspheric Hiss over the Intertropical Zone of South America in Interplanetary	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:30-14:40	#26
68130	Environmental Satellite to Monitor Real-Time Environmental Parameter Changes in Response to Increased Climate Action	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:40-14:50	#26
72239	The Space Missions Laboratory at the Technical University of Munich: Rapid Satellite Missions for Space Research	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:50-15:00	#26
74226	TOLOSAT : student CubeSat for Gravimetry application	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	13:30-13:40	#27
68479	Enabling Lidar Instruments for Small Satellite Earth Observation Missions	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	13:40-13:50	#27
70466	A toolset for development, configuration, and operation of Software-Defined Satellite Platforms	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	13:50-14:00	#27
70034	Observing M Dwarfs UV and optical flares from a CubeSat and their implications for exoplanets habitability	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:00-14:10	#27
74145	project aptas - development of a 1U cubesat payload for independent calibration and testing of eiscat3d.	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:10-14:20	#27
71142	QlevEr Sat: Using AI in a cubesat (6U) for Earth Observation	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:20-14:30	#27
73014	Design of a SAR CubeSat Formation Flight Constellation for Maritime Surveillance	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:30-14:40	#27
69507	Human and Technological Capacity Building through the Sharjah-Sat-1 CubeSat Project	B4	29th IAA SYMPOSIUM ON SMALL SATELLITE MISS	Wednesday 21 September	14:40-14:50	#27
71555	ADVANCED SPACE SERVICE ACCESS APPLICATION TOOL & ASTRAX UNIVERSAL USER INTERFACE (ASTRAX U2U)&	B5	IAF SYMPOSIUM ON INTEGRATED APPLICATIONS	Wednesday 21 September	14:50-15:00	#27
67548	Prediction of air pollution and environmental factors using Machine Learning, data from Space Agency Satellites and from ground devices.	B5	IAF SYMPOSIUM ON INTEGRATED APPLICATIONS	Wednesday 21 September	13:30-13:40	#28
68285	Automatic detection model of floating macroalgae blooms based on deep learning using GOCI images	B5	IAF SYMPOSIUM ON INTEGRATED APPLICATIONS	Wednesday 21 September	13:40-13:50	#28
70575	Hierarchical reasoning algorithm with coupling temporal constraints for flexible lander	B6	IAF SPACE OPERATIONS SYMPOSIUM	Wednesday 21 September	13:50-14:00	#28

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71278	Student conducted satellite experiment investigating the Earth's magnetic field and affect on operations	B6	IAF SPACE OPERATIONS SYMPOSIUM	Wednesday 21 September	14:00-14:10	#28
72873	Master Activity Planning for Landsat 8 and 9	B6	IAF SPACE OPERATIONS SYMPOSIUM	Wednesday 21 September	14:10-14:20	#28
68112	Space Target Pose Estimation Framework with Deep Reinforcement Learning Technique	B6	IAF SPACE OPERATIONS SYMPOSIUM	Wednesday 21 September	14:20-14:30	#28
72462	Vehicle Design and Mission Architecture for an Exploration Excursion Vehicle for Deimos and Phobos	B6	IAF SPACE OPERATIONS SYMPOSIUM	Wednesday 21 September	14:30-14:40	#28
72463	Mission architecture for Robotic, Low-Cost, High-Fidelity Mapping of Mission Areas	B6	IAF SPACE OPERATIONS SYMPOSIUM	Wednesday 21 September	14:40-14:50	#28
68837	Comprehensive High-level Avionics Systems for Exploration	B6	IAF SPACE OPERATIONS SYMPOSIUM	Wednesday 21 September	14:50-15:00	#28
72544	datasat - ada ground station network
automatic directional antenna for space communication with low polar orbiting satellites	B6	IAF SPACE OPERATIONS SYMPOSIUM	Wednesday 21 September	13:30-13:40	#29
69161	Speech To Text for Automatic Transcription and Indexing of Voice Loops at ESOC	B6	IAF SPACE OPERATIONS SYMPOSIUM	Wednesday 21 September	13:40-13:50	#29
69844	Concept of a refuelling station for water-based propellants in geostationary orbit	B6	IAF SPACE OPERATIONS SYMPOSIUM	Wednesday 21 September	13:50-14:00	#29
74048	Adaptative Multi Input Multi Output controller for a Titan Rover Concept	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:00-14:10	#29
70650	optimal launch windows for artemis III and beyond leveraging contour maps	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:10-14:20	#29
73863	ienai GO: a free tool for concurrent mission design and optimization with on-board electric propulsion	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:20-14:30	#29
69046	Mapping long-term natural orbits about Titania, a satellite of Uranus	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:30-14:40	#29
69012	Families of Displaced non-Keplerian Polar Orbits for Space-Based Solar Energy Applications	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:40-14:50	#29
71445	Singularity-Free Hybrid Control for Autonomous Berthing of Two Spacecrafts	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:50-15:00	#29
69136	Novel Gear based Actuation Mechanism for Spacecraft's Attitude Control	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	13:30-13:40	#30
73507	Optimization of chaser trajectory for active debris removal missions	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	13:40-13:50	#30
72313	A Transport Theorem for the Inertia Tensor for Simplified Spacecraft Dynamics Development	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	13:50-14:00	#30
73745	Modelling and simulation of an on-orbit experiment for testing a novel engine technology	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:00-14:10	#30
68421	A Survey of Longitudinal-Shift Maneuvers Performed by Geosynchronous (GEO) Satellites from 2010 to 2021	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:10-14:20	#30
71704	Real-time Optimal Control of a 6-DOF State-Constrained Close-Proximity Rendezvous Mission	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:20-14:30	#30
67975	A variant of the Kármán line theory facilitating the identification of a precise altitude boundary	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:30-14:40	#30
69948	Distributed Guidance for Flexible Spacecraft Landing on Asteroid	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:40-14:50	#30
68896	Design and Implementation of a Multi-Mission Torque Model Simulator for Earth Satellites	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:50-15:00	#30
68161	dynamics in the vicinity of the stable halo orbits	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	13:30-13:40	#31
70806	Stabilization of Space-advertisement Satellite Formation	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	13:40-13:50	#31
73927	machine learning based orbit prediction	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	13:50-14:00	#31
70865	Data-Driven Guidance for Asteroid Landing Based on Real-Time Dynamic Mode Decomposition	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:00-14:10	#31
73449	On optimal three-impulse Earth-Moon transfers in a four-body model	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:10-14:20	#31
69430	A Framework for Deriving and Validating the Multibody Equations of Motion of Micro-Launchers	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:20-14:30	#31
69309	Bald Eagle Search Optimization based Bioinspired Spacecraft Rendezvous- Docking and Space Debris Mitigation	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:30-14:40	#31
70312	N-Body Problem in Non-Inertial Reference Frame. Application to Full Two-Body Stability Problem	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:40-14:50	#31
71687	A survey of the Magnetic Dipole Moment Determination Methods applied on CubeSats and Nanosatellites	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:50-15:00	#31
67205	design for earth-mars cycler trajectories based on aero assisted orbital transfer	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	13:30-13:40	#32
67886	Automatic multi-gravity assist trajectory design with modified Tisserand Graphs exploration	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	13:40-13:50	#32
69596	Optimal Trade-Off between Solar Energy and Control Input while Rendezvous and Docking of a CubeSat with a Rotating Target Spacecraft	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	13:50-14:00	#32
70655	Low-cost Manufacturing and Testing of Attitude Control Systems for CubeSats	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:00-14:10	#32
72193	Processing of Altimetric Data for Precise Orbit Determination	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:10-14:20	#32
73986	Optimal Control of J2 formations subject to drag using MPC	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:20-14:30	#32
70497	Hybrid Multi-Algorithmic Attitude Determination and Control Architecture	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:30-14:40	#32
68631	Application of singular perturbation theory to space flight dynamics problems	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:40-14:50	#32
71336	Initial Guesses for Cislunar Low-Thrust Transfers	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	14:50-15:00	#32
73907	Accessible and Retrievable Asteroids considering Lunar and Solar Gravity Assists	C1	IAF ASTRODYNAMICS SYMPOSIUM	Wednesday 21 September	13:30-13:40	#33
68351	Research on the analysis of drilling behavior to minimize delamination in carbon fiber reinforced plastics	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	13:40-13:50	#33
69977	Finite time fault-tolerant control and multiple vibration suppression of space robot with elastic base, elastic joints and flexible links	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	13:50-14:00	#33

IP ID	Title	Symposium		Date	Time	Screen
71796	A simplified thermal analysis for Thai Space Consortium-1 satellite (TSC-1)	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:00-14:10	#33
72968	Prediction of braze joint strength of dissimilar materials by numerical and experimental methods.	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:10-14:20	#33
74066	On the vibration testing of space structures	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:20-14:30	#33
71447	Cryogenic behaviour of Airware 2050 Aluminium alloy: application for space products down to LH2 environment	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:30-14:40	#33
71841	High-performance thermoplastic composite structure for suborbital vehicles	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:40-14:50	#33
69861	Chassis Optimization of a 1U Cubesat made in a developing country	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:50-15:00	#33
69883	Research on the heating effects of the main engine jet of the suborbital vehicle	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	13:30-13:40	#34
72365	Innovation in water rockets development based on biomimicry design tools in collaboration with the Aerospace Engineering Group of Universidad de Costa Rica (UCR)	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	13:40-13:50	#34
72333	Design of a device to slow the motion and vertical descent of a water rocket inspired by tropical seeds from Costa Rica	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	13:50-14:00	#34
70300	Thermal Control Design of Cabin Type for Star Sensor on GEO Satellite	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:00-14:10	#34
72448	Structure redesign for the nanosatellite K’oto	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:10-14:20	#34
70332	Structural assessment of Solid Rocket Motor hardware from the measured residual strain and 3-D profile in the long seam weld location	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:20-14:30	#34
69146	Launch Environment Structural Survivability Verification for THEOS-2 SmallSat Structural Qualification Model (SQM) by Structural Dynamic Analysis and Vibration Testing	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:30-14:40	#34
69989	High-Performance polyimide membranes for use in solar sail propulsion	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:40-14:50	#34
67949	Compilation method of equal damage accelerated fatigue load spectrum for reusable launch vehicle	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:50-15:00	#34
71984	Layout candidate schemes for small Satellite based on multi-objective optimization algorithm	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	13:30-13:40	#35
71746	Preliminary Study of an Origami-inspired Deployable Structure for a Small-scale Demonstrator	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	13:40-13:50	#35
70805	Design process and new materials in small satellite structures	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	13:50-14:00	#35
71814	Experimental and Numerical Investigation of Spread Tow Fabric Composites for Boom Application	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:00-14:10	#35
69503	Sharjah-Sat-1 Structural Design and Analysis	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:10-14:20	#35
74254	Determination of Thruster Configuration and Experimental Verification for Buoyant Rover Concept	C2	IAF MATERIALS AND STRUCTURES SYMPOSIUM	Wednesday 21 September	14:20-14:30	#35
73331	innovative solutions for the power subsystem of lunar vehicles	C3	IAF SPACE POWER SYMPOSIUM	Wednesday 21 September	14:30-14:40	#35
69316	A UK Roadmap for the Development of Nuclear Power in Space	C3	IAF SPACE POWER SYMPOSIUM	Wednesday 21 September	14:40-14:50	#35
69939	Multiphase geo-energy production on Mars using geologic CO2 storage in the sedimentary basins	C3	IAF SPACE POWER SYMPOSIUM	Wednesday 21 September	14:50-15:00	#35
73824	Supercritical CO2 based Power Generation for Red Planet	C3	IAF SPACE POWER SYMPOSIUM	Wednesday 21 September	13:30-13:40	#36
70604	Nuclear batteries as potential power source for future spacecraft	C3	IAF SPACE POWER SYMPOSIUM	Wednesday 21 September	13:40-13:50	#36
72847	The Utilization of Dye-sensitized Solar Cells as satellite subsystem and for future lunar and mars base	C3	IAF SPACE POWER SYMPOSIUM	Wednesday 21 September	13:50-14:00	#36
68602	Strategy for Simultaneous Hydrogen Trapping and Metallic Grain Size Control in Cermets for Nuclear Thermal Propulsion	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:00-14:10	#36
73599	A Comparison Study on the Feasibility of Two Low Sloshing Configurations for Small Satellite Magnetic Fluid Actuation	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#36
71686	Using differential pressure sensor to measure nitrous oxide level in a tank	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#36
71681	Lessons learned during SRAD hybrid rocket motor development	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:30-14:40	#36
67420	9tonf staged combustion cycle liquid rocket engine startup analysis	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:40-14:50	#36
67274	The nano-probe by the photon transportation in the Deep Space	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:50-15:00	#36
72215	Common pitfalls of testing hybrid rocket engines at student led facilities	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	13:30-13:40	#37
73423	Dynamic Modeling and Simulation of a Hydrogen Peroxide Monopropellant Thruster	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	13:40-13:50	#37
70874	Experimental Investigation on Throttling Transient Response of Bipropellant Thruster Using Cavitating Venturi Valve.	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	13:50-14:00	#37
72921	Development of Ultra High DN Ceramic Ball Bearing for Cryogenic Rocket Engine Turbopump	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:00-14:10	#37
68583	Conceptual Design of a N2O/Paraffin Hybrid Sounding Rocket	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#37
67404	Optimized orbit transfer of a Gravidyne with low-thrust propulsion	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#37
72801	Numerical Simulation of Flow Atomization caused by Two Impinging Liquid Jets	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:30-14:40	#37
70336	Parametric design and testing of explosion-preventive solid propellant rocket engines in the event of unexpected behavior during combustion	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:40-14:50	#37
70817	Comparative analysis of numerical models of film and regenerative cooling in thrust chamber at high pressure	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:50-15:00	#37
68363	Hypergolic ignition characterization of less-toxic bipropellants using Hydrocarbon fuel blend and Hydrogen Peroxide	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	13:30-13:40	#38
72772	FEASIBILITY ANALYSIS FOR ELECTRIC PROPULSION SYSTEMS FOR SHORT TERM INTERPLANETARY MISSIONS	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	13:40-13:50	#38
68964	Physical properties and ignition characteristics of hypergolic propellant with oxidizing additives	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	13:50-14:00	#38

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68885	Ignition delay and thermoacoustic coupling in hybrid rocket combustion	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:00-14:10	#38
70329	Vacuum Arc Thruster architecture for green orbit maintenance with small satellite missions	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#38
70496	Numerical estimation of heat loss and thrust performance characteristics in micro propulsion	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#38
70493	Integrated internal and external ballistics for sounding rocket design	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:30-14:40	#38
72898	The effect of aerodynamic heating to cryogenic propellant discharge	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:40-14:50	#38
69927	Numerical and experimental investigation of lambda type seals in high-pressure cryogenic bolted joints	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:50-15:00	#38
70383	Propellant grain design for Solid strap-on Booster operating under Martian condition and selecting the appropriate propellant.	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	13:30-13:40	#39
68283	PEPE: A low cost, reliable, reusable, user- and environment- friend Propulsion System	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	13:40-13:50	#39
71588	Vacuum testing of 3D printed 1N Hydrogen Peroxide thruster and a novel platinum catalyst	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	13:50-14:00	#39
73281	Conditions for the long-term existence of spacecraft with air-breathing electric propulsion in ultra-low orbits about planets	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:00-14:10	#39
73421	Three-Dimensional MHD Analysis of Magnetic Plasma Drag with Coils Placed on Three Axes	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#39
68307	Nuclear Thermal Propulsion for In-Space Applications focusing Beryllium as the Working Fluid and Graphite and FLiBe as Moderator and Coolant	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#39
71152	Numerical study on n-decane heat transfer under supercritical pressure in regenerative cooling channel	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:30-14:40	#39
72784	Rapid Design of a Small Scale KeroLOx Flight Vehicle Propulsion System	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:40-14:50	#39
71232	Effect of H2O2 concentration and catalytic ratio on the autoignition characteristics of RP-3 kerosene under catalytic ignition engine-like conditions	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:50-15:00	#39
71078	High Flux Hybrid Motor Development with Distributed Tube Injector	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	13:30-13:40	#40
68710	two-phase, multicomponent hydrogen peroxide blowdown injector modelling and tests comparisons	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	13:40-13:50	#40
71103	Research on Acoustic Closed-End Device for Hydraulic Excitation Test of LRE	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	13:50-14:00	#40
72246	Computational model for performance prediction of a nitrous oxide / eicosane hybrid rocket engine	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:00-14:10	#40
72865	preliminary screening of catalytic beds for hydrogen peroxide thrusters with thrust level lower than 0.5 N	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:10-14:20	#40
71580	A Review: On the various FEOP thrusters present in the Industry and their Performance Comparison	C4	IAF SPACE PROPULSION SYMPOSIUM	Wednesday 21 September	14:20-14:30	#40
69405	development and use of bpsci, an open-source and adaptable dynamics visualization software	D1	IAF SPACE SYSTEMS SYMPOSIUM	Wednesday 21 September	14:30-14:40	#40
72679	Astraeus: a new perspective on Titan's lakes	D1	IAF SPACE SYSTEMS SYMPOSIUM	Wednesday 21 September	14:40-14:50	#40
71943	configurable architecture for fully autonomous rover operations	D1	IAF SPACE SYSTEMS SYMPOSIUM	Wednesday 21 September	14:50-15:00	#40
73245	A Low-Cost Attitude Control System Using Hard Disk Drive Based Reaction Wheels for CubeSats	D1	IAF SPACE SYSTEMS SYMPOSIUM	Wednesday 21 September	13:30-13:40	#41
70438	Virtual Hardware-in-the-loop Testing of the ADCS of DhabSat	D1	IAF SPACE SYSTEMS SYMPOSIUM	Wednesday 21 September	13:40-13:50	#41
70354	Model Predictive Impedance Control for Orbital Replacement Unit Installation by a CubeSat Servicer	D1	IAF SPACE SYSTEMS SYMPOSIUM	Wednesday 21 September	13:50-14:00	#41
72691	Methods for increasing the dependability of high performance, many-core, System-on-Chips	D1	IAF SPACE SYSTEMS SYMPOSIUM	Wednesday 21 September	14:00-14:10	#41
69445	A Streamlined Design, Development and Validation Process for Micro-Launchers	D1	IAF SPACE SYSTEMS SYMPOSIUM	Wednesday 21 September	14:10-14:20	#41
68371	Novel V&V Approach at PIL Level in Open Loop Configuration for Nonlinear online optimization Parafoil Guidance of Reusable Space Vehicles	D1	IAF SPACE SYSTEMS SYMPOSIUM	Wednesday 21 September	14:20-14:30	#41
70420	A Novel On-Board AI-Based Adaptive Image Processing and Compression for Earth Observation CubeSats	D1	IAF SPACE SYSTEMS SYMPOSIUM	Wednesday 21 September	14:30-14:40	#41
68113	Review of the environmental impact of space transportation systems in a full life cycle assessment	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND INFRASTRUCTURE	Wednesday 21 September	14:40-14:50	#41
70537	Development of an On-Demand, Small Payload Return Capability from LEO	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND INFRASTRUCTURE	Wednesday 21 September	14:50-15:00	#41
74385	Core Launch Range Renewal at the Guiana Europe Space Port	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND INFRASTRUCTURE	Wednesday 21 September	13:30-13:40	#42
69646	Perspectives for the use of new solutions in the creation of suborbital launch vehicles	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND INFRASTRUCTURE	Wednesday 21 September	13:40-13:50	#42
73330	The Challenges of Designing a Student Sounding Rocket For a 100 km Apogee	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND INFRASTRUCTURE	Wednesday 21 September	13:50-14:00	#42
67173	Challenges and Recommendations for Intercontinental Suborbital Commercial Liner Transportation	D2	IAF SPACE TRANSPORTATION SOLUTIONS AND INFRASTRUCTURE	Wednesday 21 September	14:00-14:10	#42
67937	In-Space Manufacturing - 2022 Industry Survey and Commercial Landscape	D3	20th IAA SYMPOSIUM ON BUILDING BLOCKS FOR SPACE MANUFACTURING	Wednesday 21 September	14:10-14:20	#42
67233	The anti-gravity propulsion : the future of small spacecraft	D4	20th IAA SYMPOSIUM ON VISIONS AND STRATEGIES	Wednesday 21 September	14:20-14:30	#42
67218	The Africa New Space requirements	D4	20th IAA SYMPOSIUM ON VISIONS AND STRATEGIES	Wednesday 21 September	14:30-14:40	#42
71177	MOBILE BASES FOR THE MOON AND MARS	D4	20th IAA SYMPOSIUM ON VISIONS AND STRATEGIES	Wednesday 21 September	14:40-14:50	#42
71151	HUMAN COLONIZATION OF THE SURFACE OF VENUS AND ITS BOWELS RIGHT NOW.	D4	20th IAA SYMPOSIUM ON VISIONS AND STRATEGIES	Wednesday 21 September	14:50-15:00	#42
69635	Multi-drone spaceship concept proposal for asteroid mining	D4	20th IAA SYMPOSIUM ON VISIONS AND STRATEGIES	Wednesday 21 September	13:30-13:40	#43
70284	Let's Go to the Stars: A Survey of Interstellar Travel in Popular Culture to Inform Public Engagement for Future Interstellar Missions	D4	20th IAA SYMPOSIUM ON VISIONS AND STRATEGIES	Wednesday 21 September	13:40-13:50	#43
72254	A Legal Vision for the Future: Peaceable Settlement of Space Disputes Under Humankind's Compulsory Jurisdiction	D4	20th IAA SYMPOSIUM ON VISIONS AND STRATEGIES	Wednesday 21 September	13:50-14:00	#43

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67834	Exoplanets and a Backup Plan for Life on Earth	D4	20th IAA SYMPOSIUM ON VISIONS AND STRATEGIES	Wednesday 21 September	14:00-14:10	#43
70108	Methods for simulating crowd movements in low gravity environments for safe emergency egress design	D5	55th IAA SYMPOSIUM ON SAFETY, QUALITY AND RELIABILITY	Wednesday 21 September	14:10-14:20	#43
	Improving flight safety methods and concepts to fit future challenges at the Guiana Space Center	D6	IAF SYMPOSIUM ON COMMERCIAL SPACEFLIGHT	Wednesday 21 September	14:20-14:30	#43
70607	Case Study of Implementing the new space personnel Training Curriculum	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	14:30-14:40	#43
71450	Mentorship in the space industry: A case study on the impact of mentorship for gender minorities	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	14:40-14:50	#43
73374	Society Of Women In Space Exploration At Concordia: Strategies Employed To Increase Involvement And Interest In Multidisciplinary Fields Of Space Exploration For Un	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	14:50-15:00	#43
68325	Space Field Attractiveness for African Talents	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	13:30-13:40	#44
68537	Person perception on gender-related inequalities in the Italian and Japanese Aerospace Sectors	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	13:40-13:50	#44
74299	A CASE FOR THE SECONDARY CLASSROOM: GEOSPATIAL AND EARTH OBSERVATION TECHNOLOGY FOR INCREASING AWARENESS OF GEOGRAPHY AND	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	13:50-14:00	#44
72701	CRITICAL SPACE EDUCATIONAL ACTIVITIES IN THE POST-COVID-19 RECOVERY CURRICULUM	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	14:00-14:10	#44
73770	GIS4SCHOOLS – Paving the way for the school of tomorrow: leveraging on space technology to stimulate STEAM learning and teaching	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	14:10-14:20	#44
73379	Training Undergraduate Engineering Students for Space Industry Start-Ups Through Student-Run Design Teams	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	14:20-14:30	#44
73867	Nurturing Space Workforce through International Collaboration: Next Generation’s Perspective	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	14:30-14:40	#44
72346	Space Education Initiatives for Capacity Building in Panama	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	14:40-14:50	#44
72277	EEE+14 Space EDUCATION PROGRAM a SUCCESS STORY OF EDUCATIONAL INNOVATION IN COLOMBIA 10 years later	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	14:50-15:00	#44
71186	The Space For All Nations initiative: towards more equitable and diverse access to Space	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	13:30-13:40	#45
73854	Career awareness and education in the space sector: Spazio Albedo project	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	13:40-13:50	#45
73957	A new approach to basic education using space technologies for Brazilian adolescent students.	E1	IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM	Wednesday 21 September	13:50-14:00	#45
68784	Solar sails Asteroid Grand Tour Coopetition	E10	IAF SYMPOSIUM ON PLANETARY DEFENSE AND NEAR-EARTH OBJECTS	Wednesday 21 September	14:00-14:10	#45
70947	Analysis of patent filing data in the space sector: key findings and lessons learned	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	14:10-14:20	#45
73781	Space, defence and security: cooperation between ESA and EU to enhance Europe’s geopolitical role	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	14:20-14:30	#45
72442	Exploring megaproject governance with regard to collaboration through the case of the International Space Station	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	14:30-14:40	#45
69071	Is there room to regulate the space sector in Brazil?	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	14:40-14:50	#45
69578	A case for market-based emission control in the space industry	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	14:50-15:00	#45
72352	Turning an admonition into aspiration: how a slavery-free Mars can secure the space sector's role as a major driver of sustainable development	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	13:30-13:40	#46
73148	Current and future applications of Earth Observation Data in administrative, civil and criminal proceedings	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	13:40-13:50	#46
70313	Economic efficiency of a mini upper stages: opportunities, approaches, solutions	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	13:50-14:00	#46
70158	economical feasibility of reusable launch vehicles for the limited-market-size entities	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	14:00-14:10	#46
68083	Technological Innovation, Economic Growth and Space2030 Agenda: a brief report based on a perspective of an emerging country	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	14:10-14:20	#46
67581	STRATEGIC INTELLIGENCE IN CONDUCTING THE BRAZILIAN SPACE PROGRAM	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	14:20-14:30	#46
74296	SPACE DIPLOMACY: BLUE ECONOMY FOR A GREEN FUTURE	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	14:30-14:40	#46
72499	Quo Vadis suborbital rocketry. The dilemmas and regulatory alternatives for the emerging national suborbital laws	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	14:40-14:50	#46
67610	estimating copernicus high priority candidate missions jobs for europe	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	14:50-15:00	#46
68243	Global Space Strategy – Uniting towards a common objective	E3	35th IAA SYMPOSIUM ON SPACE POLICY, REGULATION AND SOCIETY	Wednesday 21 September	13:30-13:40	#47
67882	THE ITALIAN ASTRONAUTICAL SECTOR and THE A.I.R., THE ITALIAN ROCKET ASSOCIATION	E4	56th IAA HISTORY OF ASTRONAUTICS SYMPOSIUM	Wednesday 21 September	13:40-13:50	#47
69588	The Living contribution of Islamic Science to Space Exploration	E4	56th IAA HISTORY OF ASTRONAUTICS SYMPOSIUM	Wednesday 21 September	13:50-14:00	#47
73041	Space Diplomacy Between Rivals: Lessons for the US-China Space Relationship	E4	56th IAA HISTORY OF ASTRONAUTICS SYMPOSIUM	Wednesday 21 September	14:00-14:10	#47
71562	Celestially Aligning Bernal Sphere	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:10-14:20	#47
71269	A crossed look on Space architecture	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:20-14:30	#47
71672	Bhedadipika - exploring the art-science duality through the medium of space	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:30-14:40	#47
68605	Gaia: A holistic approach to assess the logistics of menstruation in space to draw parallels on Earth	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:40-14:50	#47
68389	Role of Middle Management in the Implementation of Equality, Diversity and Inclusion as a Business Catalyst for the future Aerospace Industrial Workforce	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:50-15:00	#47
74257	Societal response to negative environmental externalities: the case of space activities	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	13:30-13:40	#48
70394	KOSMOS 2.0, AN UPGRADED AND CUTTING-EDGE VERSION

OF THE ARTISTIC & SCIENTIFIC MONUMENTAL INSTALLATION KOSMOS	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	13:40-13:50	#48
70309	Principles of public space construction in the structure of the next generations of manned space stations	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	13:50-14:00	#48

IP ID	Title	Symposium		Date	Time	Screen
74029	About architecture in extreme conditions. How can space and extreme environment help architects design better?	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:00-14:10	#48
74107	ANALOG HABITATS AS RESEARCH PLATFORM - LUNARES RESEARCH STATION MISSION CONTROL CONCLUSIONS AND GUIDELINES FOR STANDARDIZED N	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:10-14:20	#48
68266	Mars Underground: a Landscape Strategy for Long Term Human Colonies on the Red Planet.	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:20-14:30	#48
73609	Application of the Biodome gridshell system for lunar habitat and analog base construction	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:30-14:40	#48
73808	Payload hosting initiative fostering space research and development to benefit society	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:40-14:50	#48
70536	Standardized Carbon Footprint for a CubeSat Mission, a sustainability study case on emerging Countries working on space technology.	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:50-15:00	#48
74306	Workouts in space analog station Habitat Marte	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	13:30-13:40	#49
67279	Preserving Unspoiled Space for Future Generations	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	13:40-13:50	#49
69017	Will we ever achieve true gender equality in astronautics?	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	13:50-14:00	#49
72738	historical review of design involvement in space activity	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:00-14:10	#49
68071	“A Woman ‘in the snow among the Clocks and instruments’”: How Adrienne Rich Reimagined the Lives of Women Astronomers	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:10-14:20	#49
73853	Astrofeminism and Sustainability: the relationship between space and the future of our planet	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:20-14:30	#49
72664	First off-planet art gallery sets off for the International Space Station.	E5	33rd IAA SYMPOSIUM ON SPACE AND SOCIETY	Wednesday 21 September	14:30-14:40	#49
71465	On-orbit servicing: from international space law to national laws: current state of play	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPACE	Wednesday 21 September	14:40-14:50	#49
74184	Parameters, concepts and the terminology of outer space law: a review of the essential facilities served by outer space activities and the rules of interpretation for treaty la	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPACE	Wednesday 21 September	14:50-15:00	#49
70673	Legal Issues of Spacecraft Maneuvering with Artificial Intelligence- Comparative Study with the Japanese Regulations for Autonomous Driving Vehicles on the Ground	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPACE	Wednesday 21 September	13:30-13:40	#50
73221	Overcoming the geocentric perspective to ensure the functioning of the future space settlements.	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPACE	Wednesday 21 September	13:40-13:50	#50
74097	Registration Aspects of Mega-Constellations' Satellites Under International Law	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPACE	Wednesday 21 September	13:50-14:00	#50
73571	On the 55th anniversary of the Rescue Agreement: the drafting history and contribution to strengthening international cooperation	E7	IISL COLLOQUIUM ON THE LAW OF OUTER SPACE	Wednesday 21 September	14:00-14:10	#50
68963	The Inequitable Impact of Space Debris on Developing States: The Importance of Interdisciplinary Approaches	E9	IAF SYMPOSIUM ON SECURITY, STABILITY AND S	Wednesday 21 September	14:10-14:20	#50
72010	Violence, terrorism and cyber-threats: philosophical, criminological and legal perspectives	E9	IAF SYMPOSIUM ON SECURITY, STABILITY AND S	Wednesday 21 September	14:20-14:30	#50
73736	space sector transformation : a method to trigger corporate social responsibility	E9	IAF SYMPOSIUM ON SECURITY, STABILITY AND S	Wednesday 21 September	14:30-14:40	#50
71650	blockchain for sustainable space activities	E9	IAF SYMPOSIUM ON SECURITY, STABILITY AND S	Wednesday 21 September	14:40-14:50	#50
68991	Teaching the Next Generation of Scientists Strategic and Sustainable Adaptation Practices
 in Agronomy for Group Conflict Prevention in The Peaceful Use	E9	IAF SYMPOSIUM ON SECURITY, STABILITY AND S	Wednesday 21 September	14:50-15:00	#50