Interactive Presentation Session Final Schedule

SCREEN # 1	
13:15-13:25	**IAC-19/A1/IP.1** Computer-based Behavioral Health Countermeasure Evaluation during an Antarctic Winter-over Population as Space Analogue Ms. Mackenzie Haberman, Dartmouth Medical School, United States
13:25-13:35	**IAC-19/A1/IP.2** Time-series change in interpersonal relationships and mental health: 15-days confinement study in Japan. Dr. Yuichi OI, University of Tsukuba, Japan
13:35-13:45	**IAC-19/A1/IP.3** Gender- and Values-Based Faultlines as a Predictor of Crew Relations Ms. Tatem Burns, DePaul University, United States
13:45-13:55	**IAC-19/A1/IP.4** Immersive Natural Scenes using Virtual Reality for Restoration in Isolated Confined Environments Dr. Aleksandra Stankovic, Dartmouth College, United States
13:55-14:05	**IAC-19/A1/IP.5** Results from HI-SEAS Long Duration Mars Analog Simulations Mr. Simon Engler, University of Hawaii, United States
14:05-14:15	**IAC-19/A1/IP.6** Nasa human exploration research analog (hera) research study assesses crew fitness for long-duration space travel Mrs. Jonna Ocampo, , United States
14:15-14:25	**IAC-19/A1/IP.7** Team performance analysis of a collaborative spatial orientation mission in Mars analogue environment Mr. Baptiste Prébot, Laboratoire Intégration du Matériau au Système, France
14:25-14:35	**IAC-19/A1/IP.9** Body weight may play a role in ocular pressure in space: evidence from obesity studies Dr. Jay Buckey, Dartmouth Medical School, United States
14:35-14:45	**IAC-19/A1/IP.10** Cardiovascular deconditioning during two months of bed rest: Comparison of wearable monitoring based on ballisto- and seismo-cardiography with MRI Mr. Jeremy Rabineau, Université Libre de Bruxelles, Belgium

Interactive Presentation Session Final Schedule

SCREEN # 2	
13:15-13:25	**IAC-19/A1/IP.11** Upgrade the centrifugal multiple-effect distiller for deep space missions Prof. Vladimir Rifert, TERMODISTILLATION, Ukraine
13:25-13:35	**IAC-19/A1/IP.12** DIGITAL IMAGE PROCESSING AND METABOLIC PARAMETER LINEARITY TO NON-INVASIVELY DETECT ANALYTE CONCENTRATION Mr. Joseph Allen Jr., University of North Dakota, United States
13:35-13:45	**IAC-19/A1/IP.13** Biotechnological Strategies for Sustained Human Presence on Mars Ms. Jaden Hastings, University of Melbourne, Australia
13:45-13:55	**IAC-19/A1/IP.14** Moon dust and the human exploration of the Moon - 2nd NESC lunar dust workshop Dr. Daniel Winterhalter, Jet Propulsion Laboratory - California Institute of Technology, United States
13:55-14:05	**IAC-19/A1/IP.15** An exploration of how the relationship between the glymphatic system, sleep, and circadian rhythm in the microgravity environment may impact neural cognition and neurodegenerative disease in crewed spaceflight Mr. Bal Dhital, [unlisted], Australia
14:05-14:15	
14:15-14:25	
14:25-14:35	
14:35-14:45	

Interactive Presentation Session Final Schedule

SCREEN # 3	
13:15-13:25	**IAC-19/A2/IP.1** Optimal Deployment Simulation for Various Gravitational Wave Missions Dr. An-Ming Wu, National Space Organization, Taipei
13:25-13:35	**IAC-19/A2/IP.3** Mathematical Analysis on the Simulated Microgravity Resulting from the Random Positioning Machine Prof. Taig Young Kim, Korea Polytechnic University, Korea, Republic of
13:35-13:45	**IAC-19/A2/IP.6** Design, calibration and experimentation with seeds in a RPM Mr. Pablo Serralta, LEEM - Laboratory for Space and Microgravity Research, Spain
13:45-13:55	**IAC-19/A2/IP.7** Endothelial Cell Culturing in a Random Positioning Machine with a Culture Chamber Mr. HEERAK KIM, Korea Polytechnic University, Korea, Republic of
13:55-14:05	
14:05-14:15	**IAC-19/A7/IP.3** Knowledge Utilization and Open Science Policies: Noble aims that ensure quality research or "Ordering discoveries like a pizza"? Ms. Julia Heuritsch, Humboldt University of Berlin, Germany
14:15-14:25	**IAC-19/A7/IP.4** Radio frequency interference: using deep learning tools to mitigate the impact to space operations Mr. Zaid Rana, European Space Agency (ESA), Canada
14:25-14:35	
14:35-14:45	

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SCREEN # 4	
13:15-13:25	**IAC-19/A3/IP.1** Lunar Landing-and-Takeoff Vehicle Mr. Olexandr Kashanov, Yuzhnoye State Design Office, Ukraine
13:25-13:35	**IAC-19/A3/IP.3** The Primary Locations and Settlement Strategies of Interest for Future Lunar Bases Ms. Xiaochen Zhang, University of Western Ontario (UWO), Canada
13:35-13:45	**IAC-19/A3/IP.4** Hawaiian Basalt Characterization and the Effects of Chemical Composition Variances on the Sintering Process; Potential Implications for Lunar/Mars ISRU Applications Ms. Kyla Defore, , United States
13:45-13:55	**IAC-19/A3/IP.5** Implementation of low-power, wideband synthetic aperture radar for primitive body reconnaissance applications Mrs. Katelyn Kufahl, The John Hopkins University Applied Physics Laboratory, United States
13:55-14:05	**IAC-19/A3/IP.6** Interactive Planetary Visualization and Analysis with NASA's Solar System Treks Portals Ms. Emily Law, Jet Propulsion Laboratory - California Institute of Technology, United States
14:05-14:15	**IAC-19/A3/IP.7** The USC ADAM Project: Advanced Developmental Architectures for Our Moon Mr. Madhu Thangavelu, University of Southern California, United States
14:15-14:25	**IAC-19/A3/IP.8** Regolith mining in Shackleton Crater: propellant, building materials and vital resources production for a long duration manned mission Mr. Lorenzo Rabagliati, International Master SEEDS, Italy
14:25-14:35	**IAC-19/A3/IP.12** Mission concept for lunar low frequency antennas for radio astronomy (LUFAR) Mr. Maneesh Kumar Verma, Delft University of Technology (TU Delft), The Netherlands, The Netherlands
14:35-14:45	

Interactive Presentation Session Final Schedule

SCREEN # 5	
13:15-13:25	**IAC-19/A3/IP.13** PLEXNet - A Distributed, Variable-autonomy Architecture for Exploration of Planetary Bodies Mr. Zhong Thai, Purdue University, United States
13:25-13:35	**IAC-19/A3/IP.14** Jump robot with tether for lunar vertical hole exploration Ms. Karin Kushida, Aoyama Gakuin University, Japan
13:35-13:45	**IAC-19/A3/IP.15** From Dust to Gas, LEAP2 Technologies for Lunar Site Development at the Marius Hills Skylight Mr. Samuel Ximenes, WEX Foundation, United States
13:45-13:55	**IAC-19/A3/IP.16** The GLACiER Project in the IGLUNA ESA Lab Demonstrator Project Mrs. Julia Wajoras, Students Space Association, Warsaw University of Technology, Poland
13:55-14:05	**IAC-19/A3/IP.18** Lunar Orbital Platform-Gateway (LOP-G) as an Opportunity to Test Technologies Applicable to the Robotic and Crewed Exploration of both Moon and Mars Ms. Anne-Marlene Rüede, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland
14:05-14:15	**IAC-19/A3/IP.19** Cislunar Autonomous Navigation Using Multi-GNSS and GNSS-like Augmentations: Capabilities and Benefits Dr. Benjamin Ashman, National Aeronautics and Space Administration (NASA), United States
14:15-14:25	**IAC-19/A3/IP.20** In-situ Resources Utilisation (ISRU): Using swarm robotics to optimise this key technology for future sustainable lunar exploration Mr. André Fonseca Prince, ISU, Italy
14:25-14:35	**IAC-19/A3/IP.21** Setting up an Earth Moon Gondola from the Moon Village Mr. Jean-Yves Prado, PLATINEO, France
14:35-14:45	**IAC-19/A3/IP.22** Development and test of a foldable protection system for a small landing probe using 3d-printed metal grids as shock absorber Mr. Silvio Schröder, German Aerospace Center (DLR), Bremen, Germany

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SCREEN # 6	
13:15-13:25	**IAC-19/A4/IP.1** Technosearch.seti.org: The Power of the Past; The Promise of the Future Dr. Jill Tarter, SETI Institute, United States
13:25-13:35	**IAC-19/A4/IP.3** The Search for Resource Extraction Technosignatures in the Solar System Ms. Lori Walton, Tigerstar Geoscience, Canada
13:35-13:45	
13:45-13:55	**IAC-19/A5/IP.3** Finding trajectories to send a spacecraft to an asteroid to change its orbit around the Sun Prof. Geraldo Magela Couto Oliveira, Federal Center for Technological Education of Minas Gerais, Brazil
13:55-14:05	**IAC-19/A5/IP.4** Oxygen Production on Mars with In-Situ Resource Utilization Ms. Alina Kunitskaya, University of British Columbia, Canada
14:05-14:15	**IAC-19/A5/IP.5** PERISCOPE: PERIapsis Subsurface Cave OPtical Explorer; lunar cave characterization from orbit Mr. Jeffrey Nosanov, Nosanov Consulting, United States
14:15-14:25	**IAC-19/A5/IP.9** Advanced Monitoring System for Mars Colonization Mr. Hitesh Kumar Tetarwal, University of Petroleum and Energy Studies, India
14:25-14:35	
14:35-14:45	

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SCREEN # 7	
13:15-13:25	**IAC-19/A6/IP.1** Development of a UK National In-Orbit Servicing Facility Ms. Alexandra Gravereaux, Astroscale Ltd, United Kingdom
13:25-13:35	**IAC-19/A6/IP.2** Research on commercial operation of space debris removal based on liability incentives and economic incentives Mrs. Xia Yu, China Academy of Launch Vehicle Technology(CALT), China
13:35-13:45	**IAC-19/A6/IP.4** Ground Operation Experimental system and Operation Experiment of Space Debris with Lasers Prof. Zizheng Gong, Beijing Institute of Spacecraft Environment Engineering, China Academy of Space Technology (CAST), China
13:45-13:55	**IAC-19/A6/IP.5** The impact of large constellations on space debris environment and its Countermeasures Prof. Zizheng Gong, Beijing Institute of Spacecraft Environment Engineering, China Academy of Space Technology (CAST), China
13:55-14:05	**IAC-19/A6/IP.6** Blockchain Enabled Space Traffic Awareness (BESTA) Mr. Harvey Reed, The MITRE Corporation, United States
14:05-14:15	**IAC-19/A6/IP.7** Design and simulations of a Phased Array Feed for the BIRALET radar. Dr. Tonino Pisanu, National Institute for Astrophysics, Italy
14:15-14:25	**IAC-19/A6/IP.8** Improving LEO Debris Drag Prediction by Inferring Spin Axis Mr. Joseph Carroll, Tether Applications, Inc., United States
14:25-14:35	**IAC-19/A6/IP.9** A long-term dynamical evolution of large satellite constellation and space debris problem Prof. Eduard Kuznetsov, Ural Federal University, Russian Federation
14:35-14:45	

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SCREEN # 8	
13:15-13:25	**IAC-19/A6/IP.10** Research on Path Planning of Free-Floating Space Robot Based on Dual Mode Switching Prof. Zhanxia Zhu, National Key Laboratory of Aerospace Flight Dynamics,Northwestern Polytechnical University, Xi'an, China
13:25-13:35	**IAC-19/A6/IP.11** Deep learning based space debris capture scoring study in on-orbit proximity operation Mr. Seongmin Lim, Korea University of Science & Technology (UST),
13:35-13:45	**IAC-19/A6/IP.12** Design and test of drag augmentation system for de-orbiting kardsat nano-satellite Mr. Ji-Seok Kim, Korea University of Science & Technology (UST),
13:45-13:55	**IAC-19/A6/IP.13** Collision risk assessment for the proposed large constellations Dr. Alexis Petit, IFAC-CNR, Italy
13:55-14:05	**IAC-19/A6/IP.18** Model of atmospheric density gradient torque acted on Tiangong-1 Dr. Hou-Yuan Lin, Purple Mountain Observatory, Chinese Academy of Sciences, China
14:05-14:15	**IAC-19/A6/IP.20** AI to Support Decision Making in Collision Risk Assessment Prof. Massimiliano Vasile, University of Strathclyde, United Kingdom
14:15-14:25	**IAC-19/A6/IP.21** SMARTnet and BACARDI Dr. Hauke Fiedler, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany
14:25-14:35	**IAC-19/A6/IP.22** Blowing space junk clouds away: the compliance of recommendations to a space debris removal new concept. Ms. Maria Messina, Italian Space Agency (ASI), Italy
14:35-14:45	

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SCREEN # 9	
13:15-13:25	**IAC-19/B1/IP.1** A New Flood Mapping Service from Operational Polar and Geostationary Orbiting Satellites. Dr. Mitchell Goldberg, NOAA/NESDIS, United States
13:25-13:35	**IAC-19/B1/IP.4** Automatic Ship Detection from High Resolution Satellite images based on a Deep Convolutional Neural Network (DCNN) Model Mr. Saeed Al Mansoori, Mohammed Bin Rashid Space Centre (MBRSC), United Arab Emirates
13:35-13:45	**IAC-19/B1/IP.5** Microwave observations of mesospheric ozone loss over Antarctica associated with particle precipitation Ms. Elise Wright Knutsen, National Aeronautics and Space Administration (NASA), United States
13:45-13:55	**IAC-19/B1/IP.6** Radiophysical relativistic gravimeter Dr. Sergiy Matviyenko, JSC "RPC "KURS", Ukraine
13:55-14:05	**IAC-19/B1/IP.7** Initial Calibration and Validation Results of KhalifaSat Images Mrs. Asmaa AlJanaahi, Mohammed Bin Rashid Space Centre (MBRSC), United Arab Emirates
14:05-14:15	
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SCREEN # 10	
13:15-13:25	**IAC-19/B1/IP.9** Data Management and Stewardship Maturity Matrix Supporting Data Curator Mr. Luca Fasano, Italian Space Agency (ASI), Italy
13:25-13:35	**IAC-19/B1/IP.10** SMALL SATELLITES AND UAV: A COLLABORATION FOR BETTER DEVELOPMENT IN EARTH OBSERVATION ACTIVITIES IN AFRICA Mr. Abraham Akinwale, Space Generation Advisory Council (SGAC), Nigeria
13:35-13:45	**IAC-19/B1/IP.11** Heuristic scheduling for multi-agile satellite based on adaptive genetic algorithm Mrs. Lili Ren, National Key Laboratory of Aerospace Flight Dynamics,Northwestern Polytechnical University,Xi'an,, China
13:45-13:55	**IAC-19/B1/IP.12** Monitoring and Predicting the Land Use and Land Cover Changes from Multi-Temporal DubaiSat-2 Data using Remote Sensing and GIS techniques – A Case Study of Al Marmoom Desert Conservation Reserve Ms. Shaikha AlBesher, United Arab Emirates
13:55-14:05	**IAC-19/B1/IP.14** The Use of Virtual Ground Station to support middle and high science education in India Mr. Anirudh N Sharma, Lovely Professional University, India
14:05-14:15	
14:15-14:25	
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SCREEN # 11	
13:15-13:25	**IAC-19/B2/IP.3** An integrated software defined radio and beam-tracking antenna for launch vehicles Mr. Tayo Shonibare, C6 Launch Systems, Canada
13:25-13:35	**IAC-19/B2/IP.4** Design of a Full Duplex CubeSat Communications System for Amateur Radio Operation Mr. Sawyer Rempel, University of Manitoba, Canada
13:35-13:45	**IAC-19/B2/IP.8** Eventech Event Timer for space applications Mr. Pavels Razmajevs, [unlisted], Latvia
13:45-13:55	**IAC-19/B2/IP.10** Kalman Filtering for SINS/GNSS Integrated Navigation of Long Range Cruising Vehicles Mr. Xuanbo Wei, Northwestern Polytechnical University, China
13:55-14:05	**IAC-19/B2/IP.11** Basic Navigation Message Parameters Comparison between BDS2 and BDS3 Mrs. Jie Xin, Engineer, China
14:05-14:15	
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SCREEN # 12	
13:15-13:25	**IAC-19/B3/IP.1** Adjustable IVA Spacesuit Ergonomics – Upper Body Motion Envelope Reference Model Dr. Ondrej Doule, Florida Institute of Technology, United States
13:25-13:35	**IAC-19/B3/IP.2** An Eye on the Horizon: Analog Mars Rover Localization and Astronaut Detection Mr. Bradley Hoffmann, University of North Dakota, United States
13:35-13:45	**IAC-19/B3/IP.3** Astronaut Resilience Training for the Future Manned Space Mission Mrs. Yumi Ohama, Japan Manned Space Systems Corporation (JAMSS), Japan
13:45-13:55	**IAC-19/B3/IP.5** Experience from a four crew mars simulation mission: A possible investigation for future spaceflight mission Ms. Sonal Baberwal, France
13:55-14:05	**IAC-19/B3/IP.7** The commercial space invoice: how does the general public afford future space participation? Ms. Yvette Marie Gonzalez, Moon Village Association (MVA), United States
14:05-14:15	
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SCREEN # 13	
13:15-13:25	**IAC-19/B4/IP.2** NanoFF: A 2U-CubeSat formation flight mission Mr. Nikolas Korn, Technische Universität Berlin, Germany
13:25-13:35	**IAC-19/B4/IP.3** The Business Imperative for Modularity in Communications Satellites Mr. Caleb Williams, SpaceWorks Enterprises, Inc., United States
13:35-13:45	**IAC-19/B4/IP.4** Flight results of an advanced multiband communication SDR payload in LUME-1 satellite Mr. Alberto González-Muiño, University of Vigo, Spain
13:45-13:55	**IAC-19/B4/IP.5** CERES project - Constellation of Cubesats for Precision Agriculture in Brazil Mr. Victor Baptista, Universidade de Brasília, Brazil
13:55-14:05	**IAC-19/B4/IP.6** PLATiNO Platform: an innovative Italian all electric small satellite Platform Ms. Beatrice Sabbatinelli, Sitael Spa, Italy
14:05-14:15	**IAC-19/B4/IP.8** First in-orbit results from KazSTSAT Dr. Vladimir Ten, Ghalam LLP, Kazakhstan
14:15-14:25	**IAC-19/B4/IP.9** Open-modular architecture of "baumanets 3" small spacecraft Dr. Georgy Shcheglov, Bauman Moscow State Technical University, Russian Federation
14:25-14:35	**IAC-19/B4/IP.10** The Open Source Satellite Programme: Developing an innovative, low-cost, generic microsatellite platform to advance new mission ideas from theoretical possibility to commercially-sustainable reality Dr. John Paffett, KISPE Space Systems Limited, United Kingdom
14:35-14:45	**IAC-19/B4/IP.12** IRAS: Progress in Development of the Digital Concurrent Engineering Platform, Software Tools and Innovative Technologies Mr. Manfred Ehresmann, Institute of Space Systems, Universität Stuttgart, Germany

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SCREEN # 14	
13:15-13:25	**IAC-19/B4/IP.13** Improving cubesat operations using flight performance telemetry Mr. Johan Carvajal-Godinez, Costa Rica Institute of Technology (ITCR), Costa Rica
13:25-13:35	**IAC-19/B4/IP.14** Astroscale's Vision for Holo-virtualized Augmented Reality for ELSA-d Assembly, Integration and Testing Dr. Jason Forshaw, Astroscale Ltd, United Kingdom
13:35-13:45	**IAC-19/B4/IP.16** Improved Cubesat Mission Reliability using a Rigorous Top-Down Systems-Level Approach Mr. Rahul Rughani, University of Southern California, United States
13:45-13:55	**IAC-19/B4/IP.18** Mission-oriented design for nanosatellites using innovative tools and platforms: beeApp and beeKit Mr. Daniel Sors Raurell, Open cosmos Ltd., United Kingdom
13:55-14:05	**IAC-19/B4/IP.20** An optimization approach for designing optimal tracking campaigns for low-resources deep-space missions Mr. Lorenzo Gentile, TH Köln, Germany
14:05-14:15	**IAC-19/B4/IP.21** Writing with Sunlight: CubeSat Formation Control Using Aerodynamic Forces Dr. Dmitry Pritykin, Skolkovo Institute of Science and Technology, Russian Federation
14:15-14:25	**IAC-19/B4/IP.22** Advances in the UCH-Sat Nanosatellite Design Using Commercial Electronics Devices Dr. Avid Roman-Gonzalez, Image Processing Research Laboratory (INTI-Lab). Universidad de Ciencias y Humanidades - UCH, Peru
14:25-14:35	**IAC-19/B4/IP.23** Automated Onboard Mission Planning for Robust and Flexible Spacecraft Operations Mr. Thomas Cunningham, Purdue University, United States
14:35-14:45	**IAC-19/B4/IP.24** On-board management of autonomous formation flying smallsats in Proba-3 mission Mr. Sergio Tiraplegui Riveras, SENER Ingenieria y Sistemas, S.A., Spain

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SCREEN # 15	
13:15-13:25	**IAC-19/B4/IP.25** CYGNSS Small Satellite GNSS-R Constellation Mission for Ocean Science Application Ms. Rajeswari Balasubramaniam, University of Michigan, Ann Arbor, United States
13:25-13:35	**IAC-19/B4/IP.26** Plug and Fly Mr. Saish Sridharan, Space Products and Innovation, Germany
13:35-13:45	**IAC-19/B4/IP.29** ENABLING ATTITUDE ACTUATOR FOR SMALL SATELLITES PROXIMITY OPERATIONS Mr. Daniele Luchena, ARCA Dynamics, Italy
13:45-13:55	**IAC-19/B4/IP.30** HOSTED PAYLOADS ON COMMERCIAL SATELLITES Mr. Yilkal Eshete, Ethiopian Space Science and Technology Institute (ESSTI), Ethiopia
13:55-14:05	**IAC-19/B4/IP.33** Inverse Reinforcement Learning for Collision Avoidance and Trajectory Prediction in Distributed Reconfigurations Mr. Stefano Silvestrini, Politecnico di Milano, Italy
14:05-14:15	**IAC-19/B4/IP.34** Simulating distributed small satellite networks: A model-based tool tailored to decentralized resource-constrained systems Mr. Carles Araguz, Technical University of Catalonia (UPC), Spain
14:15-14:25	
14:25-14:35	
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SCREEN # 16	
13:15-13:25	**IAC-19/B6/IP.1** Sardinia Deep Space Antenna: Current Program Status and Results Dr. Giuseppe Valente, Italian Space Agency (ASI), Italy
13:25-13:35	**IAC-19/B6/IP.2** On Improving an Embedded Solution for the ASAP Autonomous Planning System Mr. Anselm Krainovic, University of Würzburg, Germany
13:35-13:45	**IAC-19/B6/IP.3** Artificial intelligence meets mission control: theory and application of dynamic bayesian networks Ms. Lilli Bullinger, Goethe University Frankfurt, Germany
13:45-13:55	**IAC-19/B6/IP.4** Onboard Artificial Intelligence and Machine Learning for Enhancing SmallSat Constellations Mr. Christopher Heistand, The John Hopkins University Applied Physics Laboratory, United States
13:55-14:05	**IAC-19/B6/IP.7** CubeSat Energy Modelling for Improved Mission Planning and Operations Mr. Andreas Freimann, University of Würzburg, Germany
14:05-14:15	
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SCREEN # 17	
13:15-13:25	**IAC-19/B6/IP.8** Automatic mission plan generator system Mr. Salvador Daniel Escobedo Casillas, University of Guadalajara, Mexico
13:25-13:35	**IAC-19/B6/IP.9** Using UX design techniques to increase the efficiency and confidence of mission operators Mr. Sean Stellingwerff, Telespazio VEGA Deutschland GmbH, Germany
13:35-13:45	**IAC-19/B6/IP.10** The Analysis and Potential of High Reliability Organization Principles in NOAA Satellite Operations Mr. Jason Long, National Oceanic and Atmospheric Administration (NOAA), United States
13:45-13:55	**IAC-19/B6/IP.11** Optimized Contact Scheduling for NOAA Search and Rescue Ms. Ella Herz, Orbit Logic, United States
13:55-14:05	**IAC-19/B6/IP.13** Geostationary Satellite lifetime maximization by controlling propellant tank temperatures - an operational case. Mr. Henrique Oliveira da Mata, Comando de Operações Aeroespaciais, Brazil
14:05-14:15	
14:15-14:25	
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SCREEN # 18	
13:15-13:25	**IAC-19/C1/IP.3** Multiple entry trajectory scenarios for returning from the moon: advantages and disadvantages Dr. Dmitriy Grishko, Bauman Moscow State Technical University, Russian Federation
13:25-13:35	**IAC-19/C1/IP.4** Reinforcement Learning for Spacecraft Attitude Control Mr. FNU Vedant, University of Illinois, United States
13:35-13:45	**IAC-19/C1/IP.5** The High Performance Satellite Dynamics Simulator (HPS): A Modular MATLAB/Simulink-Based Simulation Library for GNC Systems Development Mr. René Schwarz, German Aerospace Center (DLR), Germany
13:45-13:55	**IAC-19/C1/IP.7** ESA F-Class Comet Interceptor: A first close-up study of a dynamically “new” object Dr. Joan Pau Sanchez Cuartielles, Cranfield University, United Kingdom
13:55-14:05	**IAC-19/C1/IP.10** CMOS Based High Accuracy Miniaturized Digital Sun Sensor with Optimized Error Compensation on SONATE Mr. Tom Baumann, University of Würzburg, Germany
14:05-14:15	**IAC-19/C1/IP.11** Hayabusa2 operational design and evaluation of MINERVAII-1A/B rovers deployment Mr. Kent Yoshikawa, Japan Aerospace Exploration Agency (JAXA), Japan
14:15-14:25	**IAC-19/C1/IP.14** Modeling and Simulation of Post-Impact Dynamics Intended for Real-Time Implementation on Spacecraft Robotic Servicing and Assembly Missions Mr. Anthony Wolosik, Naval Research Laboratory, United States
14:25-14:35	
14:35-14:45	

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SCREEN # 19	
13:15-13:25	**IAC-19/C1/IP.15** Qualitative and quantitative characterisation of solutions for the low thrust transfer GTO to GEO Mr. Juan Carlos Bastante, OHB System AG-Bremen, Germany
13:25-13:35	**IAC-19/C1/IP.16** Development of a Hardware-In-the-Loop attitude control simulator for EIRSAT-1, a magnetically actuated 2U CubeSat Mr. Joseph Thompson, Student, Ireland
13:35-13:45	**IAC-19/C1/IP.19** The lifetime of dust particles in the Pluto system Prof.Dr. Silvia Maria Giuliatti Winter, UNESP - Univ Estadual Paulista, Brazil
13:45-13:55	
13:55-14:05	**IAC-19/C3/IP.1** Development of CubeSat Electric Power System Simulator with Complex Geometry Mr. Victor Perez, Iowa State University, United States
14:05-14:15	**IAC-19/C3/IP.5** Development of a modular Li-Ion battery for LEO satellites Mr. Salvatore Corbo, SAB AEROSPACE SRL, Italy
14:15-14:25	**IAC-19/C3/IP.6** Hardware Architecture of Electrical Power System for 3U Hyperspectral Imaging Cubesat Mr. Nihal Singh, Birla Institute of Technology and Science (BITS), India
14:25-14:35	
14:35-14:45	

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SCREEN # 20	
13:15-13:25	**IAC-19/C2/IP.1** Surface functionalization of graphene prior to nanoparticles tethering for tri-functionality in both acidic and alkaline media Ms. Simranjit Grewal, The National AeroSpace Training And Research Center (THE NASTAR CENTER), United States
13:25-13:35	**IAC-19/C2/IP.2** On-Orbit Additive Manufacturing of Parabolic Reflectors via Solar Photopolymerization Dr. Avishai Weiss, Mitsubishi Electric Research Laboratories (MERL), United States
13:35-13:45	**IAC-19/C2/IP.3** Ground simulation system for active vibration control based on the bio-inspired X-shape structure for free-floating spacecraft Mr. Xin Wang, National Key Laboratory of Aerospace Flight Dynamics, Northwestern Polytechnical University, China
13:45-13:55	**IAC-19/C2/IP.4** Wind Tunnel Data Analyzing by Javad Software Mr. Ali Malekzadeh, Sharif University of Technology, Iran
13:55-14:05	**IAC-19/C2/IP.5** Optimizing topology and stacking sequence in laminated composite structures Mr. Chuan Luo, The John Hopkins University, United States
14:05-14:15	**IAC-19/C2/IP.7** Environmental analysis of nanorovers in a swarm for lunar's scientific missions Mr. Jesús Manuel Muñoz Tejeda, Universidad Carlos III de Madrid, Spain
14:15-14:25	**IAC-19/C2/IP.8** Analysis of influences of external components during vibration testing of CubeSats Mr. Andreas Johann Hörmer, Graz University of Technology (TU Graz), Austria
14:25-14:35	
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SCREEN # 21	
13:15-13:25	**IAC-19/C2/IP.10** The beneficiation of lunar regolith using electrostatic separation for Space Resource Utilisation Mr. Joshua Rasera, Imperial College London, United Kingdom
13:25-13:35	**IAC-19/C2/IP.12** Integration of a Reaction Wheel System into a Sounding Rocket to Increase Stability and Performance Mr. Harry Byers, The Ohio State University College of Engineering, United States
13:35-13:45	**IAC-19/C2/IP.15** Sensor coatings for high-temperature measurements in space applications Ms. Marta Ferran Marques, Sensor Coating Systems Limited, United Kingdom
13:45-13:55	**IAC-19/C2/IP.17** Optimal Design of the Back Truss Structure for Minimizing the Deformation of Reflector under Gravity Mr. Tatsuki Kawai, Meijo University, Japan
13:55-14:05	**IAC-19/C2/IP.18** The influence of union design in thrust measurement of A to D category rocket motor in an amateur test bench. A case study Mr. Pablo Serralta, LEEM - Laboratory for Space and Microgravity Research, Spain
14:05-14:15	**IAC-19/C2/IP.19** Multi-Objective optimization of a Small Launch Vehicle Aerodynamic Payload Fairing for Minimum Drag and Mass. Mr. Sadben Khan, C6 Launch Systems, Canada
14:15-14:25	**IAC-19/C2/IP.21** PW-SAT2 DEORBIT SAIL TEST CAMPAIGN AT DROP TOWER and verification on orbit Ms. Inna Uwarowa, Students Space Association, Warsaw University of Technology, Poland
14:25-14:35	
14:35-14:45	

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SCREEN # 22	
13:15-13:25	**IAC-19/C4/IP.2** Parametric Performance Evaluation of Liquid Injection Thrust Vector Control in Hybrid Rockets Mr. Eunkwang Lee, Korea Advanced Institute of Science and Technology, Korea, Republic of
13:25-13:35	**IAC-19/C4/IP.5** Preliminary Design of High Speed Test Facility for Counterflow jet Experiments Reducing Heat and Drag Mr. Yuseok Lee, Chungnam National University,
13:35-13:45	**IAC-19/C4/IP.9** Development of Adaptable Electrodeless Plasma Propulsion Systems Using Evolutionary Topology Optimisation and Particle in Cell Simulation Mr. Alexander Ryan, The University of Sydney, Australia
13:45-13:55	**IAC-19/C4/IP.10** The P-5 Engine: A Costa Rican, Cost-effective, Low Power Liquid Rocket Engine Mr. Roy Ramirez, Purdue University, United States
13:55-14:05	**IAC-19/C4/IP.11** Experimental Investigation on Drag Reduction by Plasma Counterflow Jets in Mach 7 Shock Tunnel Mr. Jaecheong Lee, Chungnam National University, Korea, Republic of
14:05-14:15	**IAC-19/C4/IP.12** Plasma assisted nitrous oxide direct thermal \\decomposition and combustion for hybrid rocket Mr. Myoungjin Kim, Chosun University, Korea, Republic of
14:15-14:25	**IAC-19/C4/IP.14** Development and validation of high-performance hypergolic hybrid rocket fuel ignitor with hydrogen peroxide Mr. Junyeong Jeong, Korea Advanced Institute of Science and Technology, Korea, Republic of
14:25-14:35	**IAC-19/C4/IP.15** Development and Testing of a High-Performance 3D Printed Inconel Resistojet Mr. Giulio Coral, University of Tokyo, Japan
14:35-14:45	**IAC-19/C4/IP.16** Plume Simulation of HAN Thruster for Green Propellant Application Mr. Jung Won Kuk, Sejong University, Korea, Republic of

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SCREEN # 23	
13:15-13:25	**IAC-19/C4/IP.17** Innovative VRD Solution for Deep Space Missions Mr. Volodymyr Astapenko, SPACE HUB Incubator, Ukraine
13:25-13:35	**IAC-19/C4/IP.19** The cryogenic propulsion technology for future deep space exploration Ms. Han JI, Beijing Union University, China
13:35-13:45	**IAC-19/C4/IP.21** The IPG6-B as a research facility to support future development of electric propulsion Mr. Jens Schmidt, Baylor University, Germany
13:45-13:55	**IAC-19/C4/IP.22** Overview of Research on Nuclear Thermal Rocket Nozzles at OSU Mr. Nick Salamon, The Ohio State University College of Engineering, United States
13:55-14:05	**IAC-19/C4/IP.29** On the Effects Of Thermoacoustics on Soot Formation and Flame Instability Mr. Rahul Ravi Ravichandran, SRM University, Kattankulathur, Chennai, India
14:05-14:15	**IAC-19/C4/IP.30** Study of Dual-Catalytic Bed Scale-Up Parameters for High Test Hydrogen Peroxide Thrusters Mr. Sangwoo Jung, Korea Advanced Institute of Science and Technology, Korea, Republic of
14:15-14:25	**IAC-19/C4/IP.31** Combustion and propulsive characteristics of potential hybrid rocket propellant Mr. Aditya Virkar, SRM University, Kattankulathur, Chennai, India
14:25-14:35	**IAC-19/C4/IP.34** The Effect of fuel length on the regression rate in swirling-oxidizer-flow-type hybrid rocket using a liquefying fuel Mr. Yo Kawabata, Chiba Institute of Technology, Japan
14:35-14:45	**IAC-19/C4/IP.35** Electric propulsion’s rational application range on the small spacecrafts Mr. Alexey Sidorov, Dnipropetrovsk National University named after Oles Gonchar, Ukraine

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SCREEN # 24	
13:15-13:25	**IAC-19/D1/IP.2** Modular Architecture Design and Evaluation of Large Spacecraft Mr. Dong Yang, Northwestern Polytechnical University;National Key Laboratory of Aerospace Flight Dynamics, China
13:25-13:35	**IAC-19/D1/IP.3** The Open Source Satellite: Spinning in “Best-of-Breed” space and terrestrial innovations to Spin-Out affordable new mission ideas Mrs. Anita Bernie, KISPE Space Systems Limited, United Kingdom
13:35-13:45	**IAC-19/D1/IP.5** Evaluation of the Learning Process of a Data-Driven Systems Engineering Methodology in a Workshop Environment Mr. Paolo Guardabasso, ISAE-Supaero University of Toulouse, France
13:45-13:55	
13:55-14:05	**IAC-19/D3/IP.3** Incorporating Sustainability into Planned Lunar Missions: Building Blocks for Lunar Settlement through Lunar Sustainability Goals Mr. Scott Ritter, International Space University, France
14:05-14:15	**IAC-19/D3/IP.5** Modular Field Robots for Extraterrestrial Exploration Mr. Troy Cordie, CSIRO, Australia
14:15-14:25	
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SCREEN # 25	
13:15-13:25	**IAC-19/D2/IP.1** Development of KSLV-II and flight test of its one staged test vehicle employing newly developed main engine(KRE-75) Dr. seung-bo jin, Korea Aerospace Research Institute (KARI), Korea, Republic of
13:25-13:35	**IAC-19/D2/IP.2** The design and development of a medium-scale liquid commercial launch vehicle named zq-2 based on liquid oxygen and liquid methane propulsion system Ms. LEI ZHANG, LandSpace Technology Ltd, China
13:35-13:45	**IAC-19/D2/IP.3** Multidisciplinary design analysis of a semi-reusable two-stage-to-orbit small payload launch system Dr. Christie Maddock, University of Strathclyde, United Kingdom
13:45-13:55	**IAC-19/D2/IP.4** Lessons and Learns of Launching Test Launch Vehicle of KSLV-II concerning Launch Complex Development Dr. Sunil Kang, Korea Aerospace Research Institute (KARI), Korea, Republic of
13:55-14:05	**IAC-19/D2/IP.6** Lightning Protection System: current strategy and evolutions Mr. Gérard ORDONNEAU, ONERA - The French Aerospace Lab, France
14:05-14:15	
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SCREEN # 26	
13:15-13:25	**IAC-19/D2/IP.8** Comparative analysis of upper stage and built-in propulsion system for GEO satellite launches Mr. Roman Mykhalchyshyn, Yuzhnoye State Design Office, Ukraine
13:25-13:35	**IAC-19/D2/IP.9** Feasibility of an automated streamlined body for launch vehicles and Leo transportation Mr. SAYANTAN SAHA, SRM University Chennai, India
13:35-13:45	**IAC-19/D2/IP.12** Overview of Avionics Architecture on Stand-alone Test Launch Vehicle (TLV), Second Stage of Korea Space Launch Vehicle-II (KSLV-II) Dr. Seung-Hyun Hwang, Korea Aerospace Research Institute (KARI), Korea, Republic of
13:45-13:55	**IAC-19/D2/IP.13** A Study on Mission Design Framework of Reusable Vehicles for Potential Human Spaceflight in LEO Mr. Monish Mathur, University of Petroleum and Energy Studies, India
13:55-14:05	**IAC-19/D2/IP.14** Mission Control as a Service - A Turn Key Solution in Space Communications Mr. Lauri Kimmel, SpaceIT, Estonia
14:05-14:15	**IAC-19/D2/IP.15** SAAOPL System: Its Design and Technical Feasibility Study Dr. Li Wan, , United States
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SCREEN # 27	
13:15-13:25	**IAC-19/D4/IP.6** New supply chain methods using blockchain, 'Next Generation of Traceability' for aerospace industry Mr. Pavlo Tanasyuk, University of Cambridge, United Kingdom
13:25-13:35	**IAC-19/D4/IP.3** Kobot Era: Robot modularity for optimized manned supervision Mr. Philippe Martin, Telespazio Deutschland GmbH, Germany
13:35-13:45	**IAC-19/D4/IP.5** NIAC: The NASA Innovative Advanced Concepts Program Dr. Michael LaPointe, National Aeronautics and Space Administration (NASA), United States
13:45-13:55	**IAC-19/D4/IP.7** Phobos and Mars Orbit as a Base for Main Belt Asteroid Mining Dr. Martin Elvis, Harvard-Smithsonian Center for Astrophysics (CfA), United States
13:55-14:05	**IAC-19/D4/IP.8** Optical-RF Dual Relay Communication System for 1000-AU Interstellar Mission Mrs. Katelyn Kufahl, The John Hopkins University Applied Physics Laboratory, United States
14:05-14:15	**IAC-19/D4/IP.9** Project HELIOS Phase I: The Extraction of Helium-3 in Lunar Regolith for Aneutronic Nuclear Fusion Mr. Benjamin Wong, University of British Columbia, Canada
14:15-14:25	**IAC-19/D4/IP.10** CAPACITY BUILDING IN SPACE SCIENCE AND TECHNOLOGY: THE SPACE GENERATION ADVISORY COUNCIL PARTICIPATION TO THE AFRICAN LEADERSHIP CONFERENCE YOUTH FORUM 2018 Mr. Abraham Akinwale, Space Generation Advisory Council (SGAC), Nigeria
14:25-14:35	**IAC-19/D4/IP.11** Prospect commercial routes in the Earth-Moon System's Service Volume Mr. Gabriele Impresario, Agenzia Spaziale Italiana (ASI), Italy
14:35-14:45	**IAC-19/D4/IP.13** Moon Settlement (with Mars-use potential) Technology Mr. Alejandro Gualtieri, Switzerland

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SCREEN # 28	
13:15-13:25	**IAC-19/D5/IP.1** Toxic air removal using an indoor houseplant in the core module of inflatable lunar martian analog habitat at the University of North Dakota Mr. Rakesh Ravi Shankar, University of North Dakota, United States
13:25-13:35	**IAC-19/D5/IP.2** Securing the Final Frontier: A Review of Security Challenges and a Discussion of Some Prospective Solutions and What Can't Be Solved Dr. Jeremy Straub, North Dakota State University, United States
13:35-13:45	**IAC-19/D5/IP.3** Space Concordia CubeSat Project Case-Study: Establishing Lasting Practices with New Management Approaches Ms. Mary Grace Kalnay, Concordia University, Canada
13:45-13:55	**IAC-19/D5/IP.4** Self induced fire propagation in an array of heat sources. Ms. Pritha Pal, SRM University, Kattankulathur, Chennai, India
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SCREEN # 29	
13:15-13:25	**IAC-19/E1/IP.1** The Project Mars Competition: Engaging the Public in Space Dr. Jancy McPhee, The Aerospace Corporation, United States
13:25-13:35	**IAC-19/E1/IP.2** Preparing Students for the International New Space Economy Mr. Nathaniel Woodford, [unlisted], United States
13:35-13:45	**IAC-19/E1/IP.4** CAPACITY BUILDING FOR NEWSPACE AFRICA IN SPACE SCIENCE AND TECHNOLOGY: DEVELOPING THE YOUTHS FOR THE FUTURE OF AFRICAN SPACE Mr. Abraham Akinwale, Space Generation Advisory Council (SGAC), Nigeria
13:45-13:55	**IAC-19/E1/IP.5** Training the Next-Generation Space Industry Workforce in Satellite Design and Manufacturing Ms. Staten A. Longo, Northrop Grumman Corporation, United States
13:55-14:05	**IAC-19/E1/IP.7** SPACE SCIENCE AND TECHNOLOGY: THE FUTURE OF GIRLS/WOMEN IN AFRICA Mrs. Chidinma Iroka Joy, National Space Research and Development Agency (NASRDA), Abuja Nigeria, Nigeria
14:05-14:15	**IAC-19/E1/IP.8** Complete development and testing of lab-scale hybrid rocket motors by undergraduate students Prof.Dr. Rene Gonçalves, Instituto Tecnológico de Aeronáutica (ITA), Brazil
14:15-14:25	**IAC-19/E1/IP.10** SPACE TECHNOLOGY BASED PROJECTS TO IMPROVE STEM/STEAM EDUCATION FROM AN EMERGING ECONOMY PERSPECTIVE, THE CASE OF PARAGUAY Prof. Alejandro J. Roman Molinas, Paraguayan Space Agency, Paraguay
14:25-14:35	**IAC-19/E1/IP.11** Virtual reality technology as an efficient instrument of space education and outreach. Mr. Denis Nechvola, State Enterprise M.K. Yangel “Yuzhnoye” Design Office, Ukraine
14:35-14:45	**IAC-19/E1/IP.12** From Spaceflight Hardware to University Student Designs: How Implementation of NASA Methodologies and Processes Ensure Project Success Irrespective of Scale Ms. Ruth May, University of Alabama in Huntsville, United States

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SCREEN # 30	
13:15-13:25	**IAC-19/E1/IP.14** Building an Educational Cubesat Tracking Network in Australia Mr. Mike Thompson, Australia
13:25-13:35	**IAC-19/E1/IP.17** Young Professionals in the UAE Space Sector Ms. Maitha Al Romaithi, UAE Space Agency, United Arab Emirates
13:35-13:45	**IAC-19/E1/IP.18** The Latin-American Space workforce development and the contribution of the Andean Road Countries for Science and Technology to the Region Prof.Dr. Marco Cabero, Beihang University, China
13:45-13:55	**IAC-19/E1/IP.21** Practical Introduction to Aerospace Engineering through Amateur Rocketry Mr. Charles-Frédérick Gauthier, Université de Sherbrooke, Canada
13:55-14:05	**IAC-19/E1/IP.23** Canada's first and only undergraduate parabolic flight campaign Ms. Roxanne Fournier, University of Toronto, Canada
14:05-14:15	**IAC-19/E1/IP.24** The Educational Platform SOURCE - A CubeSat Mission on Demise Investigation Using In-Situ Heat Flux Measurements Mr. Daniel Galla, IRS, University of Stuttgart, Germany
14:15-14:25	**IAC-19/E1/IP.25** TSAT 5: Making CubeSats Accessible to the Public via a Web and Amateur Radio based Satellite User Interface Mr. Sanjay Abraham, University of Manitoba, Canada
14:25-14:35	**IAC-19/E1/IP.26** A History of UMSATS: Nearing 10 Years of Student Satellite Design Success Mr. Matthew Driedger, University of Manitoba, Canada
14:35-14:45	**IAC-19/E1/IP.27** Pre - feasibility evaluation for the implementation of a Space Studies Program for Management students in South America Mrs. Nicole Villanueva Justino, Pontifical Catholic University of Peru, Peru

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SCREEN # 31	
13:15-13:25	**IAC-19/E1/IP.29** Experiences from the first graduate program on Space Technology in the United Arab Emirates Prof. Prashanth Marpu, Khalifa University of Science and Technology (KUST), United Arab Emirates
13:25-13:35	**IAC-19/E1/IP.32** The out astronaut project: employing the inspirational power of astronautics to empower the LGBTQ community in science and space. Ms. Yvette Marie Gonzalez, Moon Village Association (MVA), United States
13:35-13:45	**IAC-19/E1/IP.33** NASA's International Space Apps Challenge: 6 years of global hackathon weekends for innovation incubation from the local perspective of Stuttgart, Germany Mr. Andreas Hornig, University of Stuttgart, Germany
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SCREEN # 32	
13:15-13:25	**IAC-19/E3/IP.3** Bridging the Gap of Space Infrastructural Deficit in Africa through Private Finance Initiatives Mr. Mustapha Eleyawa Agbadi, Space Generation Advisory Council (SGAC), Nigeria
13:25-13:35	**IAC-19/E3/IP.4** MARS/EUROPA INPPS: All right for UN NPS Principles Dr. Frank Jansen, DLR (German Aerospace Center), Germany
13:35-13:45	**IAC-19/E3/IP.5** National Space Agenda as a Mirror of Space Policy Dr. Gulnara Omarova, Fesenkov Astrophysical Institute, Kazakhstan
13:45-13:55	**IAC-19/E3/IP.7** Space sovereignty vs dependency – space policy for new space powers Dr. Malcolm Davis, Australian Space Policy Institute (ASPI), Australia
13:55-14:05	**IAC-19/E3/IP.8** The Process of Space Policy in the United States Ms. Kathryn Robison, The University of Alabama, United States
14:05-14:15	**IAC-19/E3/IP.9** Law Enforcement 2.0: Legal and Ethical Considerations for Policing Private Space Actors Ex Terra Dr. Sara Langston, Embry-Riddle Aeronautical University, United States
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SCREEN # 33	
13:15-13:25	**IAC-19/E5/IP.1** Preserving and sharing aerospace history through cross generational and interactive collaborative activities Ms. Rachel Tillman, The Viking Mars Missions Education and Preservation Project (VMMEPP), United States
13:25-13:35	**IAC-19/E5/IP.2** SCRUM and the Art of International Space Law Mr. David Lopez, National Aeronautics and Space Administration (NASA), United States
13:35-13:45	**IAC-19/E5/IP.3** Space satellites for a healthy Earth Ms. Wendy Vasquez, Université de Sherbrooke, Canada
13:45-13:55	**IAC-19/E5/IP.4** Technical and economic assessment of ISRU and non-ISRU lunar habitat radiation shield Mr. Chris Spedding, Open University, United Kingdom
13:55-14:05	**IAC-19/E5/IP.5** A case study of human factor & anthropological investigations in space mission simulations and analogs. Mr. Benjamin Pothier, Plymouth University, France
14:05-14:15	**IAC-19/E5/IP.6** Space solution to world's water crisis: a case study with remote sensing, science and technology in synergy Mr. Miracle Israel Nazarious, Luleå University of Technology, Sweden
14:15-14:25	**IAC-19/E5/IP.7** Australian Space Agency - a brand story drawing on Australia's past, present and future Mr. Anthony Murfett, Australian Space Agency, Australia
14:25-14:35	**IAC-19/E5/IP.9** UAE Space Agency efforts on spreading awareness of the UAE Space Sector Ms. Maitha Al Romaithi, UAE Space Agency, United Arab Emirates
14:35-14:45	**IAC-19/E5/IP.10** Without Space Mr. Bal Dhital, Newcastle University, Australia

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SCREEN # 34	
13:15-13:25	**IAC-19/E6/IP.1** ESA partnerships: a risky business? Ms. Maria-Gabriella Sarah, European Space Agency (ESA), France
13:25-13:35	**IAC-19/E6/IP.4** The preliminary concept of commercial launch service provider alliances Mr. YAWEI XU, LandSpace Technology Ltd, China
13:35-13:45	**IAC-19/E6/IP.5** Role of insurance in mitigation risk in space operations - focusing particularly on NewSpace Ms. Helen Tung, Moon Village Association (MVA), United Arab Emirates
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SCREEN # 35	
13:15-13:25	**IAC-19/E7/IP.3** Does Space Start at 80 km? Revisiting the Karman Line Dr. Jonathan McDowell, Harvard-Smithsonian Center for Astrophysics (CfA), United States
13:25-13:35	**IAC-19/E7/IP.4** Re-discovering the boundary problem Mr. Kyran Grattan, International Institute of Air and Space Law, Leiden University, The Netherlands
13:35-13:45	**IAC-19/E7/IP.6** Small satellites and regulation: a general overview with a specific reference to the Italian context. Dr. Marina Gagliardi, Italian Space Agency (ASI), Italy
13:45-13:55	**IAC-19/E7/IP.10** The Issues of Key Concern regarding Space Mining: Revisit of the Moon Agreement from the Chinese Perspective Dr. Kuan Yang, Beijing Institute of Technology, Institute of Space Law, China
13:55-14:05	**IAC-19/E7/IP.11** Relevance of Militarized Artificial Intelligence to Sovereignty in Space: Legal Challenges and Conflicts Ms. Mahshid TalebianKiakalayeh, Iran
14:05-14:15	**IAC-19/E7/IP.13** Can a non-functional facility on the Moon become Res nullius and be occupied by a subsequent state? Analyzing the limitation on the State Jurisdiction and Ownership over facilities constructed on the Moon. Mr. Tejas Bharadwaj, University of Petroleum and Energy Studies, India
14:15-14:25	**IAC-19/E7/IP.14** Transitioning into higher-airspace traffic management (HATM) and space traffic management (STM) Mr. Maarten Adriaensen, Belgium
14:25-14:35	**IAC-19/E7/IP.15** Who Owns this Space? A Survey of Space Industry Leaders and Legal Experts Assessing Space Property Rights Issues and Potential Resolutions Mr. Joshua Burks, Auburn University, United States
14:35-14:45	**IAC-19/E7/IP.17** The Legal History of the Bogotá Declaration: Contesting the Meaning of “Humanity” from the Global South Mr. Haris Durrani, Columbia Law School, United States

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SCREEN # 36	
13:15-13:25	**IAC-19/E7/IP.18** Oumuamua: Applying A Multi-Messenger Approach to Fundamental Legal and Ethical Issues for Developing Governing Frameworks on Space Mining Dr. Sara Langston, Embry-Riddle Aeronautical University, United States
13:25-13:35	**IAC-19/E7/IP.19** Partial Ownership for Outer Space Economy Mr. Erwan Beauvois, International Master SEEDS, France
13:35-13:45	**IAC-19/E7/IP.20** Potential disputes arising from space activities: Opportunities for investment arbitration Mr. Martin Svec, Charles University, Czech Republic
13:45-13:55	**IAC-19/E7/IP.22** A Third Way - New Approaches to Space Resource Governance Ms. Jessy Kate Schingler, Open Lunar Foundation, United States
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