Preliminary Program

*****Please note, this is a preliminary program as for August 11, 2019, final program will be uploaded in the next few days**

Monday, November 4, 2019

	Session D.1 Hall A (main room)	Session B.1 Hall B	Session PCB.1 Hall C	Session A.1 Hall D
09:00-10:30	**Roundtable discussion of Space Agency Leaders**			
10:30 - 11:00	**Coffee Break and Poster sessions for A.1, B.1 PCB.1**			
11:00-12:30	**Parallel Sessions**			
	M. Desai (USA) - CuSP: The CubeSat Mission for studying Solar Particles	**Xu. Shen (China)** - Update of CSES Mission	**C. Gabriel (Spain)** - COSPAR Capacity Building and Small Satellites	**A. Rispler (Australia)** - CSIROSat-1 mission - CDR and Early Subsystems Testing
	R. Millan (USA) - REAL: A CubeSat to Study Energetic Electron	**A. Zhukov (Belgium)** - The PROBA-3 Mission	**M. McGrath (USA)** - Lessons Learned in Advancing Academic Space Science Programs	**M. Meftah (France)** - SERB, An Innovative Proof-Of-Concept Nanosatellite Mission Dedicated to The Measurement of The Earth Radiation Imbalance
	L. Blum (USA) - GTOSat: A Next-Generation CubeSat to study Earth's Radiation Belts	**S. Matviienko (Ukraine)** - Project of the spacecraft "Gravisat"	**D. Laufer (Israel)** - The Role of Givatayim Observatory in Promoting Science Education	**C. Bastien-Thiry (France) -** Taranis Mission
	Q. Lu (China) - Research Progress of Small Radiation Dose	**N. Ozel (Turkey)** - Status of Venus Missions and A Proposal for a Possible Venus Mission by the Turkish Space Agency	**J. Bellardo (USA)** - Lessons Learned After 20 Years of Running	**R. Abileah (USA)** - Maritime Applications for Small Sats: Observations of Ocean Waves, Currents, Tides, And Navigational Hazards
	A. Title (USA) - A View of a Small Solar Satellite	**E. Hayun (Israel)** - An overview of the Israeli Lunar Lander	**P. Kovar (Czech Rep.)** - The Architecture of the Lucky 7 CubeSat	**D. Pradines (France)** - MICROCARB Project: Atmospheric CO2 Monitoring with a Microsatellite
				A. Yevtushenko (Israel) - Stray Light Solution for Ghgsat Nanosatellite
12:30-13:30	**Lunch**			
13:30-15:00	**Parallel Sessions**			
	J. Lee (S. Korea) - The Snipe Mission for Observing Small Scale Ionospheric and Magnetospheric Plasma Phenomena	**R. Ambrosi (UK)** - Small Scale Radioisotope Thermoelectric Generators (RTGs) and Heater Units (RHUs): Enabling Technologies for Deep Space and Planetary Surface Missions	**A. M. Afful (Australia)** - A Study of Students' Perceptions of The Role and Value of a Space Science Program for Sustainable Development	**D-L. Tang (China)** - Multiples Satellite Observations of "Wind Pump" Impacts on Marine Systems
	C. Moore (USA) - Using the Miniature X-ray Solar Spectrometer (MinXSS) CubeSats to Probe HOT plasma in the atmosphere of a COOL star	**P. Bousquet (France)** - CNES perspectives for affordable missions to Deep Space	**P. Kamoun (Israel)** - SPACEPHARMA's Satellites for Microgravity Research and Development	**A. Chandran (Singapore)** - Tropika equatorial constellation for Weather and Space Weather Forecasting
	J. Bakala (Poland) - Solar Bragg Spectrometry - New Opportunities with Micro-Satellites	**P. Devoto (France)** - A Reconfigurable Energetic Particle Detector for Planetary Exploration	**S. Selvadurai (Singapore)** - Space Science and Engineering Education at Nanyang Technological University through the SCOOBI Mission	**V. Tyrou (France)** - MERLIN: A Franco-German Mission to Perform an Innovative Spaceborne Measurement of Atmospheric Methane
	Q. Yu (China) - A New Type of Neutral Atom Imaging and its Application in Space Weather Monitoring	**L. Conde (Spain)** - Performance and supersonic ion beams of the ALPHIE (Alternative Low Power Hybrid Ion Engine) plasma thruster	**D. Baker (USA)** - INSPIRE: International Space Weather Research Using CubeSat Platforms	**E. Tverdokhlebova (Russia)** - Constellation of Small Spacecraft for Radio Occultation Probing of Ionosphere and Atmosphere
	R. Marshall (USA) - The Atmospheric Effects of Precipitation through Energetic X-rays (AEPEX) CubeSat mission	**A. Vashishtha (India)** - MarCo Spacecraft: Study and Analysis for Developing Communication Infrastructure for Manned Mission to Mars	**L. Chang (Taiwan)** - IDEASSat – A 3U CubeSat for Ionospheric Science and Capacity Building	**T. Cussac (France)** - ANGELS Nanosatellite, From A Successful Cdr Up to Its Launch
	L. Paxton (USA) - Understanding the ionosphere and thermosphere	**A. Grushevskii (Russia)** - Dynamical aspects of the spatial gravity assists using for the forming high inclined orbits in the planetary missions	**S. Maman (Israel)** - She-Space: A multi-disciplinary educational	**O. Postylyakov (Russia)** - First Experiment on High-Detailed Mapping of Tropospheric NO2 in Polluted Areas Using GSA Hyperspectral Imager

15:00-15:30	**Coffee and Poster sessions for A.1, B.1 PCB.1**			
15:30-17:30	**Parallel Sessions**			
	Session D.1 Hall A	**Session B.1 Hall B**	**Session PCB.1 Hall C**	**Session A.1 Hall D**
	K.-J. Hwang (USA) - SandPIPR+ (Structure and Propagation of Ionospheric Patches in the polar Region) mission	**C. Peng (China)** - Low energy transfer to earth-moon DRO via Lunar Gravity Assists	**I. Belokonov (Russia)** - Samara University Scientific-Educational Nanosatellite Program to study high atmosphere	**D. Harrison (USA)** - Multispectral Arrays UV – LWIR
	G. Ho (USA) - Small Satellites for Next Generation Space Weather Measurements	**F. Jansen (Germany)** - Interplanetary by INPPS flagship and orbiting satellite	**S. Chakrabarti (USA)** - SPACE HAUC: An undergraduate CubeSat mission to demonstrate high bandwidth communication using a X-Band phased-array system	**V. Zakharov (Russia)** - Using SWARM Satellite Mission to Study the Effects of Large Tropical Cyclones on The Ionosphere
	J. Klenzing (USA) - petitSat - A 6U CubeSat to examine ionospheric plasma density irregularities	**A. Klesh (USA)** - MarCO: Trailblazing Interplanetary Small Science	**V. Bogomolov (Russia)** - Scientific and educational satellites SiriusSat in the CubeSat 1U format	**R. Rose (USA) -** ONEWEB Satellites; Revolutionizing the economics of space through industrialization
	V.Petrov (Russia) - Energetic Electron Precipitation Research with Nanosatellites of Moscow University	**A. Neduncheran (India)** - Jupiter Exploration Mission Concept: Remote Sensing Studies of the Planet	**N. Carver (USA)** - METASAT: An Open Metadata Schema for CubeSat Missions	**E. Hayun (Israel)** - The OptSat High End Micro Satellite Series
	R. Marshall (USA) - The Climatology of Anthropogenic and Natural VLF wave Activity in Space (CANVAS) CubeSat mission	**D. Fargion (Italy)** - Mini Array satellites to reach and explore and harbor nearby trough going icy asteroid	**L. Winter (USA)** - Space Weather Research Support at the National Science Foundation	
		J. Bell (USA) - NEOShare: A Smallsat Mission to Explore the Diversity of Near-Earth Asteroids	**M. Kaufmann (Germany)** - From a rocket experiment to a CubeSat constellation: A joint venture of scientists and university students building a remote sensing instrument for atmospheric research	
			H.-K. Fang (Taiwan) - Development of space plasma analyzers and a space plasma chamber for university-based small satellite missions	
			A. Jorgensen (USA) - New Mexico Tech Student Satellite (NMTSat)	
17:30-18:20	**Thomas Zurbuchen (USA) -** Keynote talk			
18:30-19:30	**Opening Ceremony Morris Podolak - Program Chair Lennard Fisk - President of COSPAR Isaac ben Israel - Chairman Israel Space Agency Andrey Broisman - Ministry of Science and Technology**			

Tuesday, November 5, 2019

	Session D.1 (cont'd) Hall A (Main Room)	Session A.2 Hall B	Session B.2 Hall C
09:00-09:50	**Mario Livio (USA)** - Keynote address		
09:50-10:40	**Jack Lissauer (USA)** - Visiting the Sun's Outer Planets and Searching for the Nearest Earthlike Exoplanets		
10:40-11:10	**Coffee and Poster sessions for A.2, A.5, B.2, D.1**		
11:10-12:40	**Parallel Sessions**		
	M. Barthelemy (France) - AMICal Sat, ATISE and WFAI: Three Space Instruments for Auroral Monitoring	**P. Kourkouli (Finland)** - ICEYE's Micro-Satellite SAR Constellation: Near-Real Time Satellite Data for Earth Observation	**J. Murthy (India)** - Small Ultraviolet Payloads for Astronomy
	R. Peng (China) - Research on Ionospheric Optical Remote Sensing Detection Technology Based on Micro-nano Satellite	**S. Statham (USA) -** RainCube: Radar Weather Observations from a Sustainable, Small Satellite Platform	**A. de Castro (Spain)** - Lunar exploration with Cubesats: the Challenges and the Rewards
	M. Hecht (USA) - AERO & VISTA: Demonstrating HF Radio Interferometry with Vector Sensors	**S. Jin (China)** - Theremospheric Variations from GNSS and Accelerometer Observations on GRACE and Swarm	**N. Andre (France)** - An Energetic Particle Monitor for Ice Giant Atmospheric Probes
	S. Jones (USA) - The Enhanced Ion and Neutral Mass Spectrometer for The PetitSat CubeSat Mission	**A. Freeman (USA)** - SmallSat Constellations for Earth Science – it's about Timing	**Y. Ezoe (Japan)** - GEO-X : Geospace X-ray Imager
	I. Zolotarev (Russia) - CubeSat Mission SOCRAT for the Monitoring of Natural Radiation Environment and its Impact on Electronics at Sun Synchronous LEO	**A. Ekanem (Nigeria)** - Small Satellites for Sustainable Science and Development in Africa; Policy Perspectives	**L. Yacobi (Israel)** - NanoGam - A Non-Uniform Voxel Pattern for Monitoring and Localizing Gamma-Ray Transients
	A. Petrukovich (Russia) - A Microsatellite for Solar Wind Monitoring		
12:40-13:40	**Lunch**		
13:40-15:00	**Parallel Sessions**		
	V. Angelopoulos (USA) - ELFIN Mission Overview and First Results	**S. Babu (USA)** - NASA's Earth Science Technology Validation on CubeSats and its Impact in Building Future Missions	**K. Yamaoka (Japan)** - Solar Neutron and Gamma-ray Spectrrocopic Mission
	N. Paschalidis (USA) - Flight Demonstration of a Mini Ion and Neutral Mass Spectrometer onboard the Exocube an Dellingr CubeSat Missions	**R. Wright (USA)** - HyTI: High Spectral Resolution Thermal Imaging from a 6U CubeSat Platform	**J. Yan (China)** - DSL: Interferometric Imaging with Linear Microsatellite Array in Lunar Orbit
	V. Mani (India) - Constellation of Satellites to study Solar Dynamics and to Provide Ground Work in Order to Prevent Black Outs Caused by Coronal Mass Ejections	**S. Svertilov (Russia)** - TGF and TLE Observations from Small Satellite Constellation	**H. Li (China)** - Status of the PolarLight X-ray Polarimeter in Space
	L. Dame (France) - The SoSWEET-SOUP (SOlar, Space Weather Extreme EvenTs and Stratospheric Ozone Ultimate Profiles) Constellation Mission	**J. M. Donoso Vargas (Spain)** - Modelization of ALPHIE Thruster with Classical and Disruptive Approaches	**V. Sharma (India)** - Development of Advanced Micropropulsion System fot CubeSats and Nanosats
		K. Chen (Switzerland) - A GNSS Payload with Commerical-off-the-Shelf Receivers for Cubesat Precise Orbit Determination	**T. Kim (S. Korea)** - Simulation and Performance Analysis of CubeSat's Deep-space Optical Navigation System
15:00-15:30	**Coffee**		

15:30-17:00	**Parallel Sessions**		
	Session A.5	**Session A.2 (cont'd)**	**Session B.2**
	G. Occhipinti (France) - IONOGLOW: New Insight for Ionospheric Detection of tsunamis by airglow camera from space	**R. Rose (USA)** - CYGNSS Smallsat Constellation for Severe Storm and Hydrologic Science Applications	**E. Kalemcı (Turkey)** - Science prospects of the improved X-ray Detector iXRD on 3U CubeSat Sharjah-Sat-1
	L. Lu (China) - Close Up Imaging Simulation of low-altitude ENA emission during geomagnetic substorm	**S. Brown (USA)** - New Small Satellite Passive Microwave Radiometer Technology for Future Constellation Missions	**P. Lubin (USA)** - Directed Energy Propulsion - The Path to Radical Advancement
	C. Ichoku (USA) - Optimal Design of An Ideal Instrumentation Package for High-Resolution Characterization of Wildfires from Small-Satellite Constellations	**V. Holodovsky (Israel)** - CloudCT: Spaceborne Scattering Tomography by A Large Formation of Small Satellites for Improving Climate Predictions	
	V. Chukwuma (Nigeria) - On the Need of The Use of Data from Small Satellites in Elucidating Ionospheric Phenomena During Very Intense Geomagnetic Storms	**J. Garrison (USA) -** SigNals Of Opportunity: P-band Investigation (SNOOPI)	
	V. Karunanithi (Netherlands) - Orbiting Nano-satellites for Earthquake Prediction (ONSEP)	**R. Rose (USA)** - Small Satellite Enabled Solution for Cloud Characterization and Weather Imaging	
		S. Misra (USA) - The CubeSat Radiometer Radio Frequency Interference Technology (CubeRRT) Validation Mission	

Wednesday, November 6, 2019

	Session A.2 (cont'd) Main Hall Hall A	Session D.1 (cont'd) Hall B	Session B.1 (cont'd) Hall C	Session A.1 (cont'd) Hall D
09:00-09:50	**Rudolf von Steiger** - Keynote talk			
09:50-10:15	**Yoav Landsman - Bereshit**			
10:15-10:45	**Coffee**			
10:45-12:30	**Parallel Sessions**			
	J. Kaye (USA) - Calibration and Validation for Small Satellites	**C. Wang (China)** - Space Weather Research Missions with Small Satellites in China	**C. Zuffada (USA)** - Small Satellites for Earth Observation: A Perspective from JPL/NASA	**G. Hulot (France)** - Monitoring the Earth's Magnetic Field and Ionosphere with LEO nanosatellites: the NanoMagSat project
	C. K. Shum (USA) - Applications of PlanetScope Constellation Dove CubeSats for Hazards and Climate Monitoring	**D. Chugunin (Russia)** - The Possibility to Measure the Plasma Density and its fluctuations in the Ionosphere on cubsats using Radiophysical Techniques	**V. Mani (India)** - Exploration of Enceladus through constellation of CubeSats	**G. Gutierrez (Spain)** - Spherical Picosatellite for Monitoring of High Atmosphere Density
	G. Gutman (USA) - Studying Earth Landscapes from Space with High Resolution using Small Satellite Constellations	**D. Kataria (UK)** - Advanced miniaturised Sensors for Commercial and Scientific Nanosatellite Missions	**F. Dirri (Italy)** - QCM Sensors for Contamination Monitoring in Support to NEXT Cubesats and Small Satellites Missions	**C. Hill (USA)** - The Stratospheric Aerosol and Gas Experiment (SAGE) IV Pathfinder
	T. Feingersh (Israel) - IAI's Image Analytics Tools for Space Imagery	**A. Keesee (USA)** - The Development of a Low-Voltage, Ultra-Compact Plasma Spectrometer	**L. Alkalai (USA)** - Democratizing Solar System Exploration, Using Low-cost Interplanetary Explorers	**A. Gimenez (Spain)** - The integrated Standard Imager for Microsatellites (iSIM): An agile, High-resolution, Multispectral EO Camera for the New Constellations of Small Satellites
	D. Helman (USA) - Crop RS-Met: A Soil Water Content Model for Crop Fields Driven by High Temporal Satellite Vegetation Index	**S. Klimov (Russia)** - Spatial - Temporal Study of plasma-Waves and Ionospheric Parameters using Microsatellites	**R. Funase (Japan)** - Achievements and Future Plan of JAXA's Interplanetary CubeSats and Micro-sats	
	S. Reising (USA) - Global Observations from a Science-Quality Passive Millimeter-wave Atmospheric Sounder on a CubeSat: Temporal Experiment for Storms and Tropical Systems Demonstration (TEMPEST-D)	**N. Kamsali (India)** - Small Satellite for studying Cosmic Radiation Environment in Space	**R. Singh (India)** - Exploration of Titan by small Planetary Satellite	
12:30-13:30	**Lunch**			
13:30-19:30	**Excursion**			

Thursday, November 7, 2019

	Session E.1 Hall A (Main Hall)	Session A.3 Hall B	Session A.4 Hall C
09:00-09:50	**Agnieszka Lukaszczyk** - Keynote address		
09:50-10:45	**Parallel Sessions**		
	M. C. Falvella (Italy) - Italian Assets for Space Science and Exploration with CubeSats	**K. Schilling (Germany)** - Formations of Small Satellites to Characterize 3D Cloud Properties: TOM and CloudCT	**M. Dejus (France)** - VENμS mission overview
	G. Wade (Canada) - Six years of stellar astrophysics with BRITE Constellation	**G. Videen (USA)** - Polarimetric Detection of Super-thin Clouds and Dust Using CubeSats	**A. Dick (France)** - VENμS: Specificities of Image Quality and In-Orbit Calibration Monitoring
	L. Burderi (Italy) - The HERMES Project (High Energy Rapid Modular Ensemble of Satellites): Probing Space-Time Quantum Foam and Hunting for Gravitational Wave Electromagnetic Counterparts	**V. Holodovsky (Israel)** - Geometric Aspects of Stereoscopic Spaceborne Imaging of Dynamic Clouds in the CLOUD Experiment	**A. French (USA)** - Using VENμS to Map Daily Evapotranspiration over Irrigated Agricultural in Arizona
10:45-11:15	**Coffee and Poster sessions for A.3, A.4, E.1, PRBEM.1**		
11:15-12:30	**Parallel Sessions**		
	M. Trenti (Australia) - The SkyHopper Space Telescope CubeSat	**D. Rosenfeld (Israel)** - C3IEL: Cluster for Climate and Cloud Imaging of Evolution and Lightning, an Innovative Way to Observe Clouds and their Environment	**G. Dedieu (France)** - The VENμS Mission: A Tool for the Scientists, a Contribution to Prepare the Next Generation of SENTINEL-2
	A. Caspi (USA) - Novel solar soft X-ray Imaging Spectroscopy from a CubeSat Platform	**A. Smirnov (USA)** - Maritime Aerosol Network as a component of AERONET – an opportunity for collaboration	**P. Kamoun (Israel)** - Land Monitoring Aspects by SENTINEL-2 and VENμS
	V. Bhalerao (India) - Daksha: On Alert for High Energy	**S. Maman (Israel)** - Using a single band Nano Satellite for Observations (EO): Lessons learnt from BGUSATEarth	**K.-H. Tseng (Taiwan)** - Monitoring Inland Waterbody from Multiple Remote Sensing Satellites: A Case Study in Tsengwen Reservoir, Taiwan
	N. Brosch (Israel) - CubeSats for UV astronomy		**I. Herrmann (Israel)** - Assessment of Chickpea Morpho-Physiological Traits by VENμS All Bands and Vegetation Indices
	S. Wolk (USA) - SEEJ: Smallsat Exploration of the Exospheres of Nearby Hot Jupiters		**A.Karnieli (Israel)** - VENμS Observations Over Israel
12:30-13:30	**Lunch**		
13:30-15:00	**Parallel Sessions**		
	N. Werner (Hungary) - CAMELOT: Cubesats Applied for MEasuring and LOcalising Transients - Mission Overview and In-Orbit Demonstration	**M. Panasyuk (Russia)** - Radiation Belt Monitoring in the Universat-SOCRAT Multi-Satellite Mission	**E. Walter-Shea (USA)** - Estimation of Functional and Structural Traits of C3 and C4 Crops using VENμS and in situ Reflectance Data
	R. Rose (USA) - Infrared SmallSat for Cluster Evolution Astrophysics (ISCEA)	**B. Blake (USA)** - Observations of Bursty Energetic Electron Precipitation using Pairs of Cubesats	**F. Gao (USA)** - Mapping Crop Phenology using VENμS Observations over Maryland Experimental Sites
	E. Bozzo (Switzerland) - THESEUS: A Candidate ESA M5 Space Mission	**R. Bishop (USA)** - The Low-Latitude Ionosphere/Thermosphere Enhancements in Density (LLITED) Mission	**I. Herrmann (Israel)** - The Effect of less than 2 Minutes and Viewpoint on Vegetation Indices Obtained by VENμS
	S. Nikzad (USA) - High Performance Near and Far Ultraviolet Camera for Star Planet Activity Research CubeSat (SPARCS)	**P. Laurent (France)** - IGOSat – a 3U Educational CubeSat for Measuring the Ionospheric Total Electron Content and Characterizing the Radiation Belts Electrons and Gamma-Ray Emission	**F. Zemek (Czech Rep.)** - Impact of Flux Footprint Heterogeneity of Agricultural Site on Surface-Atmosphere Exchange
	S. Lacour (France) - Postmortem Examination of PicSat, the First European Astronomical CubeSat Mission	**D. L. Thomsen III (Usa)** - Shields-1 Preliminary Radiation Shielding Dosimetry in Polar Low Earth Orbit	**T. Wijmer (France)** - Crop Stages and Biophysical Variables Retrieval Using VENμS Observations
	J. Mangan (Ireland) - GMOD: The Gamma-Ray Module on EIRSAT-1	**V. Angelopoulos (USA)** - The Potential of LEO CubeSats for Science, and Radiation Environment Specification	**C. Desjardins (France)** - The VENμS L2A and L3A Surface Reflectance Products

15:00-15:30	**Coffee**		
15:30-17:00	**Parallel Sessions**		
	C. Moore (USA) - Prospects of the SmallSat Solar Activity/Axion X-ray Imager (SSAXI)	**V. Mani (India)** - Constellation of CanSats to explore Van Allen Belts	**G. Henebry (USA)** - Land Surface Phenologies of Grasslands: Comparing VenμS Time Series from Naryn, Kyrgyzstan and the Eastern Sandhills of Nebraska, USA
	J. Braga (Brazil) - A CubeSat Experiment to Detect Cosmic Explosions in Hard X Rays	**D. Klumpar (USA)** - Insights on Radiation Belt Precipitation and Losses using Low-Altitude Measurements in Conjunction with NASA's Radiation Belt Storm Probes	**J.-L. Raynaud (France)** - VENμS Ppoduction and Image Quality Monitoring Operations
	J. Perkins (USA) - Towards a Network of GRB Detecting Nanosatellites	**G. Roux (France**) - CSUT and ONERA's CREME: a Student Cubesat Dedicated to Radiation Belt Modeling and Space Weather	**J. Chen (USA)** - Remote Sensing Modeling of Ecosystem Productivity and Evapotranspiration: New Insights from VENμS
	Y. Yatsu (Japan) - Ultra wide-field UV transient exploration satellite Hibari	**B. Christophe (France)** - ONERA Nanosat Project ONSAT-1 on Radiation Belt Monitoring and Effects	**A. Rolland (France)** - DEM generation from native stereo VENμS Acquisitions
	M. Kerr (USA) - Glowbug: A Gamma-Ray Telescope for Bursts and Other Transients		**S. Elbaz (Israel)** - Using UAVs and VENμS to Characterize the Phenology of Mediterranean Woody Species Across Spatial Scales
	E. Waxman (Israel) - ULTRASAT's View of the Transient Universe: From Neutron Star Mergers to Planet Habitability		**Y. Michl (Israel)** - Monitoring Nitrogen Application with VENμS