



## IV IAA Latin American CubeSat Workshop

### Preliminary Program - Brasilia Time Zone (GMT - 3)

3 August 2020		4 August 2020		5 August 2020		6 August 2020	
09:00-09:15	<b>Opening</b>	09:00-09:30	Keynote 2	09:00-09:30	Keynote 4	09:00-09:30	Keynote 6
09:15-10:00	Keynote 1	09:30-10:00	Keynote 3	09:30-10:00	Keynote 5	09:30-10:00	Keynote 7
<b>10:00-10:15</b>	<b>BREAK</b>	<b>10:00-10:15</b>	<b>BREAK</b>	<b>10:00-10:15</b>	<b>BREAK</b>	<b>10:00-10:15</b>	<b>BREAK</b>
10:15-10:30	IAA-BR-20-01-01	10:15-10:30	Invited talk	10:15-10:30	IAA-BR-20-07-01	10:15-10:30	Invited talks
10:30-10:45	IAA-BR-20-01-02	10:30-10:45	IAA-BR-20-04-01	10:30-10:45	IAA-BR-20-07-02	10:30-10:45	Round-table
10:45-11:00	IAA-BR-20-01-03	10:45-11:00	IAA-BR-20-04-02	10:45-11:00	IAA-BR-20-07-03	10:45-11:00	
11:00-11:15	IAA-BR-20-01-04	11:00-11:15	IAA-BR-20-04-03	11:00-11:15	IAA-BR-20-07-04	11:00-11:15	
11:15-11:30	IAA-BR-20-02-01	11:15-11:30	IAA-BR-20-05-01	11:15-11:30	IAA-BR-20-07-05	11:15-11:30	
11:30-11:45	IAA-BR-20-02-02	11:30-11:45	IAA-BR-20-05-02	11:30-11:45	IAA-BR-20-07-06	11:30-11:45	
11:45-12:00	IAA-BR-20-02-03	11:45-12:00	IAA-BR-20-05-03	11:45-12:00	IAA-BR-20-08-01	11:45-12:00	
<b>12:00-14:00</b>	<b>LUNCH</b>	<b>12:00-14:00</b>	<b>LUNCH</b>	<b>12:00-14:00</b>	<b>LUNCH</b>	<b>12:00-13:00</b>	<b>Closing</b>
14:00-14:15	IAA-BR-20-03-01	14:00-14:15	IAA-BR-20-06-01	14:00-14:15	IAA-BR-20-08-02	13:00-13:15	Satellogic
14:15-14:30	IAA-BR-20-03-02	14:15-14:30	IAA-BR-20-06-02	14:15-14:30	IAA-BR-20-08-03	13:15-13:30	UChile
14:30-14:45	IAA-BR-20-03-03	14:30-14:45	IAA-BR-20-06-03	14:30-14:45	IAA-BR-20-08-04	13:30-13:45	EMSISTI
14:45-15:00	IAA-BR-20-03-04	14:45-15:00	IAA-BR-20-06-04	14:45-15:00	IAA-BR-20-08-05	13:45-14:00	ISI-SE Senai
<b>15:00-15:15</b>	<b>BREAK</b>	<b>15:00-15:15</b>	<b>BREAK</b>	<b>15:00-15:15</b>	<b>BREAK</b>	<b>14:00-14:15</b>	Orbital
15:15-17:00	Tutorial 1	15:15-17:00	Tutorial 2	15:15-15:30	IAA-BR-20-1P 1/2	14:15-14:30	CRON
				15:30-15:45	IAA-BR-20-1P 3/4	14:30-14:45	Fibraforte
				15:45-16:00	IAA-BR-20-1P 5/6	14:45-15:00	Cubesat.Market
				16:00-16:15	IAA-BR-20-1P 7/8	15:00-15:15	HORUSEYE
				16:15-17:00	CubeDesign	15:15-15:30	Opto S&D
						15:30-15:45	Zenit

# Day 1 - Monday, 3 August 2020.

<p style="text-align: center;"><b>Opening Ceremony</b></p> <p style="text-align: center;">Dr. Jean-Michel Contant, IAA Secretary General          Dr. Chantal Cappelletti, The University of Nottingham          Dr. Antônio Fernando Bertachini de Almeida Prado, INPE          Dr. Eduardo Augusto Bezerra, UFSC</p>														
<p style="text-align: center;"><b>"Ongoing opportunities to fly to the Moon"</b></p> <p style="text-align: center;"><b>Keynote Speaker: Dr. Mikhail Ovchinnikov Keynote Speaker and Dr. Sergey Trofimov</b> (Chair Dr. Eduardo Bezerra)          Director of the Attitude Control and Guidance Department - Keldysh Institute of Applied Mathematics, Russia</p>														
<p style="text-align: center;"><b>SESSION 1 - ASSEMBLY, INTEGRATION, TEST AND VERIFICATION</b></p> <p style="text-align: center;">Chair Dr. Kleber Vieira de Paiva (UFSC)</p>														
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<p style="text-align: center;"><b>Tutorial 1 - "PocketQube and Cansat for Hands-On Space Projects, Space STEAM Education"</b></p> <p style="text-align: center;">Ulrich Norbisrath, Pedro Kaled, Leonardo Souza, Rafael Lobo, Victor Baptista and Mateus Six</p>														

# Day 2 - Tuesday, 4 August 2020.

<p style="text-align: center;"><b>"Brazilian Cubesat Missions"</b>  <b>Keynote Speaker:</b> Dr. Rodrigo Leonardi (Chair Dr. Otávio Durão)          Brazilian Space Agency, Brazil</p>		
<p style="text-align: center;"><b>"From public to private - spinning off with cubesats"</b>  <b>Keynote Speaker:</b> Dr. Otavio Cupertino Durão (Chair Dr. Rodrigo Leonardi)          CRON, Brazil</p>		
<p style="text-align: center;"><b>"BRISA: an RGB- and SWIR-band imaging CubeSat"</b>  <b>Invited talk:</b> Dr. Thyrso Villela (Chair Dr. Eduardo Bezerra)          CGEE / INPE, Brazil</p>		
<p style="text-align: center;"><b>SESSION 4 - MISSION APPLICATIONS</b></p> <p style="text-align: center;">Chair Cmd. Ronnie Nader Bello (Ecuadorian Space Agency)</p>		
IAA-BR-20-04-01	Image system for microalgae culture monitoring in a cubesat	<a href="#">Samuel Pereira</a> , André Luís Salomão, Gil Pinheiro, Lia Teixeira and Victor Hugo Ferreira Carneiro
IAA-BR-20-04-02	Detection of algae bloom using CubeSat images in the Brazilian Pantanal	<a href="#">Gustavo Nagel</a> , Evelyn Novo, Daniel Maciel, Vitor Martins and Claudio Barbosa
IAA-BR-20-04-03	Development of a cubesat for total lightning flash detection from space: RAIOSAT mission - preliminary results	<a href="#">Antonio Cassiano Julio Filho</a> , Auro Tikami, Marcus Vinicius Cisotto, Ângelo José Augusto Florentino, Moara de Oliveira and Antonio Ferreira de Brito
<p style="text-align: center;"><b>SESSION 5 - TELECOMMUNICATIONS, TRACKING AND COMMAND</b></p> <p style="text-align: center;">Chair Dr. Richard Demo Souza (UFSC)</p>		
IAA-BR-20-05-01	DATASAT – Ground Station Network for Tracking, Telemetry and Command of Spacecrafts	<a href="#">Sergio da Silva Soares</a> , Marcelo Essado, Gladys Pierry and Andreia Palucci
IAA-BR-20-05-02	Design and implementation of a ground station for tracking and monitoring LEO orbiting nanosatellites in the UHF and VHF bands, based on the USRP platform for university environment applications	Saray Lopez, <a href="#">Paola Vindigni</a> , Joharlys Rodriguez, Ernesto Mejias and Kenny Wu
IAA-BR-20-05-03	CDA - A cubesat transponder listening the earth and chatting with amateur radio from space	<a href="#">Fernando Martins</a> and Vanderlei Parro
<p style="text-align: center;"><b>SESSION 6 - CONSTELLATIONS AND FORMATION FLIGHTS</b></p> <p style="text-align: center;">Chair Dr. Geilson Loureiro (INPE)</p>		
IAA-BR-20-06-01	A proposal of an anti-collision algorithm using aerodynamic maneuvers for cubesat constellations in LEOs	<a href="#">Jhonathan Murcia Piñeros</a> , Antonio F. B. A. Prado, Walter dos Santos, Márcia Alvarenga dos Santos and Marcelo Lopes de Oliveira e Souza
IAA-BR-20-06-02	A study about the possible constellations of cubesats for Brazilian needs	Willer Santos, Liana Gonçalves, <a href="#">Pedro Cabral</a> , Douglas Casale, Luís Eduardo Loures da Costa, Felipe Silva and Mateus Silva
IAA-BR-20-06-03	Formation flying and constellation of nanosatellites: An analysis of technological capabilities for development in Brazil	<a href="#">Jenny Carolina Asencio</a> , Ricardo Mauricio Ferreira, Geilson Loureiro, Yuri Pereira and Felipe Oliveira Tavares
IAA-BR-20-06-04	Modeling the Behavior of Cubesats's Formation Flying System using the CoFI methodology	<a href="#">Ricardo Mauricio Ferreira</a> , Ana M. Ambrosio, Ivan F. Barón and Geilson Loureiro
<p style="text-align: center;"><b>Tutorial 2 - "Using SatNOGS for cubesats ground station"</b></p> <p style="text-align: center;">Eng. Ramon Mayor Martins, IFSC, Brazil</p>		

# Day 3 - Wednesday, 5 August 2020.

<p style="text-align: center;"><b>"The legal status of the space debris under the international space law"</b></p> <p style="text-align: center;"><b>Keynote Speaker: Dr. Tatiana Ribeiro Viana</b> (Chair Dr. Marcia dos Santos) Legal adviser in International Space Law</p>																				
<p style="text-align: center;"><b>"Space Law Instruments for Long Term Sustainability of Outer Space Activities"</b></p> <p style="text-align: center;"><b>Keynote Speaker: Dr. Marcia Alvarenga dos Santos</b> (Chair Dr. Tatiana Viana) Senior Science &amp; Technology Analyst at the National Institute for Space Research (INPE), Brazil</p>																				
<p style="text-align: center;"><b>SESSION 7 - ATTITUDE DETERMINATION AND CONTROL SYSTEMS</b></p> <p style="text-align: center;"><b>Chair Dr. Valdemir Carrara (INPE)</b></p>																				
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# Day 3 - Wednesday, 5 August 2020.

POSTER SESSION		
Chair Dr. Walter Abrahão dos Santos (INPE)		
IAA-BR-20-1P-01	Methodology for conceptual design phase assessment of traditional vs small satellite mission space segment concepts	Alejandro Lopez-Telgie and Walter Abrahão dos Santos
IAA-BR-20-1P-02	An approach for EEE parts procurement of control and data processing interface of a scientific microsatellite	Josemara Flausino, Thiago Silva, Bruna Henrique, Reni Wiliyanti and Marcelo Essado
IAA-BR-20-1P-03	Overview of past, present and future Brazilian small satellites missions	Leonardo Julio Souza, Rafael Lôbo, Victor Tadeu Baptista and Danilo Sakay
IAA-BR-20-1P-04	The perspective of Information Security in the communication systems of the ground segment of CubeSat missions	José Silva, Benjamim Monteiro, Francisco Vidal, Maria de Fátima Mattiello-Francisco, Giuliani Garbi and Carolyn Almeida
IAA-BR-20-1P-05	Cansat educational kit: Spaceduino	Pedro Gil, Michelly Guedes, João Nascimento and Credson Santos
IAA-BR-20-1P-06	Towards the success rate of cubesat missions improving operation concepts definitions	Benjamim Monteiro, José Silva, Maria de Fátima Mattiello-Francisco, Giuliani Garbi, Francisco Vidal and Manoel Carvalho
IAA-BR-20-1P-07	A low-cost and portable student ground station for tracking LEO satellites to promote capacity building in telecommunication area	Luis Miranda, Jorge Kurita and Diego Stalder
IAA-BR-20-1P-08	Operational Nanosatellite Simulator: would it be applicable to Cubesat missions?	Italo Rodrigues, Ana Ambrosio and Ronan Chagas

CubeDesign
Organizers: Dr. Walter Abrahão dos Santos and Eng. Italo Pinto Rodrigues
National Institute for Space Research (INPE), Brazil
List of Cubesat teams participating in this meeting:
Sirius UFABC - Guilherme Galhardo
CEFAST Aerospace - Raphael Assis
Gama CubeDesign - Isla Kalleny Marques Brandão
SpaceLab UFSC - Yan Azeredo
Minerva Sats - Jonas Degrave

# Day 4 - Thursday, 6 August 2020.

"Innovative Wireless Power Devices Using micro-Thermoelectric Generators arrays"

Keynote Speaker: Dr. Fernando Aguado Agelet

University of Vigo, Spain

(Chair Dr. Livio Gratton)

"Future IAA Latin American Events - Local Study Groups"

Keynote Speaker: Dr. Livio Gratton

Comisión Nacional de Actividades Espaciales (CONAE) / Universidad Nacional de San Martín (UNSAM), Argentina

(Chair Dr. Fernando Aguado)

"Message from INPE's Director"

Invited talk: Dr. Darcton Policarpo Damião

National Institute for Space Research (INPE), Brazil

"Message from AEB's President"

Invited talk: Eng. Carlos Augusto Teixeira de Moura

Brazilian Space Agency (AEB), Brazil

Round-table - "Latin American Space Programs and the Cubesat Missions"

Argentina - Livio Gratton (CONAE-UNSAM)

Brazil - Rodrigo Leonardi (AEB), Chair

Chile - Marcos Diaz (UChile)

Ecuador - Ronnie Nader (EXA)

Guatemala - Luis Zea (UVG)

Mexico - Carlos Duarte Muñoz (AEM)

Paraguay - Alejandro Román (AEP)

Peru - Juan Julca Yaya (CONIDA)

Closing remarks from the Organizing Committee



**IV IAA Latin American  
CubeSat Workshop**

