

Open Source CubeSat Workshop 2020

Saturday 12 December 2020

Room #1: Talks (14:15-16:00)

-Conveners: Red Boumghar; Manthos Papamatthaiou

time	[id] title	presenter
14:15	[15] SatNOGS - State of the Union	
14:35	[16] DOCKS – An open-source software suite for space mission profiles	
14:55	[30] OpenSatCom: Open Source development methodology models for satellite communications	
15:15	[20] Progress and Developments in Open Source Electric Propulsion at Applied Ion Systems	
15:35	[40] AcubeSAT, a 3U CubeSat to probe gene expression in LEO: technical & programmatic updates	

Room #1: Lightning Talks (16:10-16:44)

-Conveners: Artur Scholz; Red Boumghar

time	[id] title	presenter
16:10	[5] Power Conditioning and Distribution Unit for 1U CubeSat	
16:14	[10] 'New comer' ground station challenge : demodulate data	
16:18	[29] Design, Fabrication, and Measurement of On-Board UHF Turnstile Antennas with Optimized Radiation Patterns	
16:22	[7] Code in Space	
16:26	[22] Manchester CubeSat Research Group	
16:30	[36] SunrIde a Student Venture to Democratise Access to Space	

Room #1: Discussion/Tutorial (16:45-18:00)

-Conveners: Eleftherios Kosmas

time	[id] title	presenter
16:45	[35] How to contribute to open source	

Sunday 13 December 2020

Room #1: Talks (14:10-16:00)

-Conveners: Artur Scholz; Pierros Papadeas

time	[id] title	presenter
14:10	[34] Goodbye TLEs, hello OMMs!	
14:30	[32] What the hell was that?	
14:50	[9] Orbit.M - An Open-Source Software for LEO Orbit Maintenance in Python	
15:10	[28] A Dual-Redundant CubeSat Flight Computer Based on Raspberry Pi	
15:30	[25] Library Space Technology Network	

Room #1: Lightning Talks (16:10-16:34)

-Conveners: Red Boumghar; Manthos Papamatthaiou

time	[id] title	presenter
16:10	[12] Phoenix - An open source orbital cloud infrastructure	
16:14	[8] Portable QO-100 Software Defined Ground Station	
16:18	[21] The OpenSource in Space Podcast	
16:22	[27] Mechanical design for space applications using open source tools	
16:26	[33] Pico Fluid Dynamic Actuators in CubeSats	
16:30	[3] SDNx Debrisat: Detecting Milli Space Debris In the Low Earth Orbit	

Room #1: Discussion/Tutorial (16:45-18:00)

-Conveners: Red Boumghar

time	[id] title	presenter
16:45	[6] Demo on writing/loading/installing/executing your code on OPS-SAT	