

Open Source CubeSat Workshop 2021

Thursday, December 9, 2021

Talks: Session 1 (11:20 AM - 12:40 PM)

-Conveners: Artur Scholz; Eleftherios Kosmas

time	[id] title	presenter
11:20 AM	[6] sdr-server - improving hardware utilization for passive spectrum monitoring	
11:40 AM	[31] OpenSATCOM update and initial results	
12:00 PM	[7] Satellite Event Detection	
12:20 PM	[10] DOCKS – An open-source software suite for space mission profiles	

Talks: Session 2 (1:00 PM - 2:20 PM)

-Conveners: Red Boumghar; Manthos Papamatthaiou

time	[id] title	presenter
1:00 PM	[21] Astrometry on board OPS-SAT1?	
1:20 PM	[9] IPFS-tiny in orbit -- Enabling new concepts	
1:40 PM	[33] SatNOGS - State of the Union	
2:00 PM	[5] LibreCube - Overview of Activities	

Talks: Session 3 (2:40 PM - 4:00 PM)

-Conveners: Pierros Papadeas; Artur Scholz

time	[id] title	presenter
2:40 PM	[13] OreSat CubeSat System Overview	
3:00 PM	[18] OreSat Mechanical Architecture	
3:20 PM	[14] OreSat Electrical Power System	
3:40 PM	[15] OreSat Firmware and Software Architecture	

Friday, December 10, 2021

Talks: Session 4 (11:20 AM - 1:10 PM)

-Conveners: **Artur Scholz; Manthos Papamatthaiou**

time	[id] title	presenter
11:20 AM	[32] State of Polaris, more visualization in using ML for space operations	
11:40 AM	[8] Open Space Data Link Protocol – An open-source implementation of the CCSDS TM/TC Directives	
12:00 PM	[22] The open-source approach to on-board data processing. A view from the perspective of OHB-Hellas	
12:20 PM	[12] Luplink, an Open Source Web Application for an Ergonomic Link Budget Analysis	
12:40 PM	[34] QUBIK Mission	

Talks: Session 5 (3:00 PM - 4:20 PM)

-Conveners: **Pierros Papadeas; Eleftherios Kosmas**

time	[id] title	presenter
3:00 PM	[19] Progress and Developments in Open Source Electric Propulsion for Nanosats and Picosats at AIS	
3:20 PM	[24] Passive Satellite RF Tracking using the SatNOGS Network	
3:40 PM	[30] Cronos Sounding Rocket	
4:00 PM	[1] An Intuitive Tool to Design Relative Orbits for Formation Flying	

Talks: Session 6 (4:40 PM - 6:00 PM)

-Conveners: **Artur Scholz; Red Boumghar**

time	[id] title	presenter
4:40 PM	[3] Progress Report from Open Research Institute, Inc.	
5:00 PM	[16] OreSat Communication Protocols and and Ground Stations	
5:20 PM	[17] OreSat Mission Planning with Eclipse Papyrus SysML	
5:40 PM	[11] MetaSat: Open Metadata for Small Satellite Missions	