

Session Program

Dec 9 - 10, 2021

Open Source CubeSat Workshop 2021

Talks

Thu, December 9

11:20 AM	Talks: Session 1 Session Conveners: Artur Scholz, Eleftherios Kosmas
	11:20 - 11:40 AM sdr-server - improving hardware utilization for passive spectrum monitoring
	11:40 AM - 12:00 PM OpenSATCOM update and initial results
	12:00 - 12:20 PM Satellite Event Detection
	12:20 - 12:40 PM DOCKS - An open-source software suite for space mission profiles
12:40 PM	
1:00 PM	Talks: Session 2 Session Conveners: Red Boumghar, Manthos Papamatthaiou
	1:00 - 1:20 PM Astrometry on board OPS-SAT1?
	1:20 - 1:40 PM IPFS-tiny in orbit -- Enabling new concepts
	1:40 - 2:00 PM SatNOGS - State of the Union
	2:00 - 2:20 PM LibreCube - Overview of Activities
2:20 PM	
2:40 PM	Talks: Session 3 Session Conveners: Pierros Papadeas, Artur Scholz
	2:40 - 3:00 PM OreSat CubeSat System Overview
	3:00 - 3:20 PM OreSat Mechanical Architecture
	3:20 - 3:40 PM OreSat Electrical Power System
	3:40 - 4:00 PM OreSat Firmware and Software Architecture
4:00 PM	

Fri, December 10

11:20 AM

Talks: Session 4

Session | **Conveners:** Artur Scholz, Manthos Papamatthaiou

11:20 - 11:40 AM

State of Polaris, more visualization in using ML for space operations

11:40 AM - 12:00 PM

Open Space Data Link Protocol - An open-source implementation of the CCSDS TM/TC Directives

12:00 - 12:20 PM

The open-source approach to on-board data processing. A view from the perspective of OHB-Hellas

12:20 - 12:40 PM

Luplink, an Open Source Web Application for an Ergonomic Link Budget Analysis

12:40 - 1:00 PM

QUBIK Mission

1:10 PM

3:00 PM

Talks: Session 5

Session | **Conveners:** Eleftherios Kosmas, Pierros Papadeas

3:00 - 3:20 PM

Progress and Developments in Open Source Electric Propulsion for Nanosats and Picosats at AIS

3:20 - 3:40 PM

Passive Satellite RF Tracking using the SatNOGS Network

3:40 - 4:00 PM

Cronos Sounding Rocket

4:00 - 4:20 PM

An Intuitive Tool to Design Relative Orbits for Formation Flying

4:20 PM

4:40 PM

Talks: Session 6

Session | **Conveners:** Artur Scholz, Red Boumghar

4:40 - 5:00 PM

Progress Report from Open Research Institute, Inc.

5:00 - 5:20 PM

OreSat Communication Protocols and and Ground Stations

5:20 - 5:40 PM

OreSat Mission Planning with Eclipse Papyrus SysML

5:40 - 6:00 PM

MetaSat: Open Metadata for Small Satellite Missions

6:00 PM