



# Open Source CubeSat Workshop 2019

## Monday 14 October 2019

### Talks: Software (09:30-12:00)

**-Conveners: Juan Luis Cano Rodríguez; Manthos Papamatthaiou**

time	[id] title	presenter
09:30	[1] An Open Source Implementation of the CCSDS SLE Services in Python	STARCIK, Milenko
09:50	[5] DOCKS, a growing software suite for space mission prototyping	Mr SEGRET, Boris
10:10	[7] DOSA, an Open-Source Dynamic Analyzer for Satlink	Mr ROUX, Guillaume
10:30	[27] Open-Source Software-Defined Radios for CubeSat Operations	CSETE, Alexandru
10:50	[29] Towards autonomous satellite operations and monitoring using machine learning	Mr CRESPO ÁLVAREZ, Xabier
11:10	[30] Orbit Determination Using the SatNOGS network and Orekit	JANES, Noel
11:30	[35] SDR Makerspace: Exploit SDR technology for Space Communications	SURLIGAS, Manolis CSETE, Alexandru

# Tuesday 15 October 2019

## Talks: Ground Networks, Launchers, and Operations (13:00-14:00)

-Conveners: Boris Segret; Pierros Papadeas

time	[id] title	presenter
13:00	[34] Multi-SDR MIMO ground station with over-the-air time synchronization	VARDAKIS, George
13:20	[22] Open source satellite tracking	Dr BASSA, Cees
13:40	[21] SatNOGS - State of the Union	DAMKALIS, Alfredos Panagiotis

## Talks: Communities, Regulations, and Business Models (14:00-15:00)

-Conveners: Manthos Papamatthaiou; Sheila Christiansen

time	[id] title	presenter
14:00	[9] LibreCube Activities 2019 - A Review	SCHOLZ, Artur
14:20	[3] Developing a low-cost, performant microsatellite platform design for all: The Open Source Satellite Programme	BERNIE, Anita Mr PAFFETT, John

## Talks: Development, Testing and Lessons Learned (16:00-17:00)

-Conveners: Artur Scholz; Anita Bernie

time	[id] title	presenter
16:00	[33] Space Development Program "Edu Cubesat"	Ms BESSONE, Talia
16:20	[23] Lessons learned by development of UPSat Attitude Determination and Control Subsystem	Mr ZISIMATOS, Agis
16:40	[18] Open Source Development of Advanced Vacuum Testing Infrastructure for Space Hardware - TVAC and Radiation Dosing	BRETTI, Michael

# Wednesday 16 October 2019

## Talks: Cubesat Missions and Systems (09:00-11:00)

-Conveners: **Pierros Papadeas; Sheila Christiansen**

time	[id] title	presenter
09:00	[11] EQUiSat: Space for \$3,776.61	Mr LEIKEN, Jacob
09:20	[17] Open Source Development of Low Cost, Low Power, Sub-Joule Micro-Pulsed Plasma Thrusters for PocketQubes and Cubesats	BRETTI, Michael
09:40	[24] Foresail: An Open Satellite Platform Beyond the LEO	Mr NIEMELÄ, Petri
10:00	[26] AcubeSAT: A lab-on-a-chip CubeSat mission from the Aristotle University of Thessaloniki	Mr KOTSAKIACHIDIS, Ioannis Mr RETSELIS, Anastasis
10:20	[38] Free-space optical communications for CubeSats	Mr BARRIOS PÉREZ, Joshua
10:40	[39] SatNOGS COMMS	SURLIGAS, Manolis DARADIMOS, Ilias