10th EUROPEAN CUBESAT SYMPOSIUM programme

5th - 7th December 2018

	Wednesday 05/12	Thursday 06/12	Friday 07/12
08:00	**Welcome Entrance of ISAE-SUPAERO**	**Welcome amphi.4 - registration -**	**Welcome amphi.4 - registration -**
08:30		**Keynote Address A. VALLET (ITU)**	**Keynote Address F. TESTON (ESA)**
09:00	**OPENING O. LESBRE, B. ESCUDIER**	*A.Frenea (PLD Space)* - **ARION 2: The European and reusable microlauncher for small satellites**	*P.Devoto (IRAP-CNRS)* - **Development of a low energy threshold particle detector and application to CubeSats**
09:15	**Keynote Address M. CLAIR (CNES)**	*M.Bailey (Rocket Lab)*- **Opening access to orbit for small satellites**	*B.Lavraud (IRAP CNRS CNES)*- **AMBRE: a compact instrument to measure ions, electrons and electrostatic charging onboard spacecraft**
09:45	*N.Andre (IRAP)*- **Europa Plume Investigation by Cubesat (EPIC)**	*K.Miller* **– Skyrora**	*A.Kohfeldt (IDEAS)* - **Radiation Detector and Spectrometer suitable for CubeSats**
	S.Nevens (Royal Meteorological Institute of Belgium) - **SIMBA, measuring the earth's radiation budget**	*B.Perry (Virgin Orbit)*- **LauncherOne: Responsive & Flexible Launch for CubeSats**	*H.K.Fang (National Cheng Kung University)*- **Miniaturized Solar Extreme Ultraviolet Probe for Cubesat Missions**
	A.H.Jallad (American University of Ras Al-Khaimah)- **Design of MeznSat, a 3U CubeSat for GreenHouse Gas Monitoring**	*G.Grommers (Airbus Defence and Space Netherlands)*- **Secondary Payload Structure (SPS) – Qualification of the European Solution for a 'Plug-In' Small Satellites Carrier for Piggy-Back on Light Launch Vehicles**	*A.Fedorov (IRAP UPS CNRS)*- **CubeSat oriented instrument for detection of energetic neutral atoms generated in the Earth magnetosphere**
		S.Roemer (Astro) - **Driving factor on cubesat deployer designs for new low-cost launcher business**	*C.Palla (Imperial College)* - **MAGIC on RadCube: design and development of a miniaturised magnetometer for space weather monitoring**
10:35	Coffee break	Coffee break	Coffee break
11:00	*T.Cang (IRAP)* - **Infrared CubeSat-type photometric follow-up of SPIRou Legacy Survey**	*V.Koryanov (Bauman Moscow State Technical University)*- **The study of the spatial motion of a small spacecraft with a solar sail**	*A.Michel (ONERA DOTA)* - **Urban Heat Islands monitoring with 12 U HESTIA mission: a thermal infrared multispectral camera**
	L.Fergrieve (University of Alberta) - **Ex-Alta 2: An earth observation CubeSat for the study of Wildfires**	*C.Louembet (LAAS-CNRS)* - **Spacecraft rendezvous control: a predictive strategy and Hardware-in-the-loop demonstrator**	*D.Mildenberger (University of Alberta)*- **Compact Extended Range VIS-SWIR (0.4 – 2.2 um) CubeSat-based Multispectral Imager**
	R.F.Garcia (ISAE-SUPAERO)- **Can we estimate air density of the thermosphere with Cubesats?**	*F.Viaud (CNES)* - ***GNC Validation Process for the High Performance 3U Nanosatellite EyeSat***	*L.Feruglio (AIKO SRL)*- **Convolutional Neural Network for autonomous on-board image analysis**
	D.Masutti (VKI)– **QARMAN**	*M.Rizwan (Aalto University)* - ***Design of Integrated magnetorquer for attitude control of nanosatellites***	*M.Nohmi (Shizuoka University)*- **Development of Pico Telescope CubeSat "Stars-AO"**
	R.Votta (CIRA) - **The First IPERDRONE Mission: ISS Inspection, Rendez-Vous and Deorbit Capabilities**		
	V.Petrov (SINP MSU)- **"Universat" constellation as integration point for scientific nanosatellite missions.**		
12:05		Lunch	*Lunch*
12:40	Lunch		
13:00			*D.Masutti (VKI)*– **QB50**
			A.Palun (Innovative Solutions in Space)- **An international collaboration for scalable Earth Observation CubeSats**
			A.Rustem (Istanbul Technical University) - **İTÜ-SSDTL CubeSats and International Cooperation**
			C.Lissina (University of Alberta) - **Ex-Alta 1 CubeSat**
13:15		**Keynote Address M. MARGERY (EC)**	
13:45	**Keynote Address**	*N.Capet (ANYWAVES)*- **Compact S-band and X-band Antennas for CubeSats**	**Round Table "Cubesats Trends & Challenges International Cooperation"**
		S.Jarix (IES) - **Ni and Cu based Shape Memory Alloys for Cubesat Antennas**	
		P.De Saqui Sannes (ISAE-SUPAERO) - **Graphene-Based Ka Band Tunable Antenna for Nanosatellites Applications**	
		C.Whaits (Cape Peninsula University of Technology)- **The design of a High Efficiency S-Band Inverse Class-F Power Amplifier for a CubeSat**	
14:15	*A.Vijh (Alta Devices)* - **A New Space-Compatible Solar Technology for Smallsats**		
	E.Halliwell (University of Alberta)- **Low-Cost, Open-Source Customizable CubeSat Solar Panels**		
	R.Bannatyne (VORAGO Technologies)- **Radiation hardened solutions for CubeSats**		
	E.Toson (T4i)- **REGULUS electric propulsion module In-Orbit Demonstration**		
	L.Soloveyeva (Ecole Polytechnique)- **IonSat: integrating an ion thruster in a 6U CubeSat**		
14:50	Coffee break	Coffee break	
15:25		*P.Brochet (ENAC)*- **Nanosatellite activities at ENAC: the TETX receiving ground station and the EYESAT mission control center**	
15:30			**Closing D. MASUTTI & B. ESCUDIER**
16:00	*S.Vega Martinez (UFSC)*- **Nanosatellite energy harvesting estimation combining thermal-computational and electric-analytical models**	*F.Apper (ISAE-SUPAERO)*- **Real-time command and control of nanosatellites**	
	P.De Saqui Sannes (ISAE-SUPAERO)- **Use of SysML and Model-Based System Engineering in the development of the Brazilian Satellite VCUB1**	*E.Kerstel (University of Grenoble CSUG)*- **NanoBob: Quantum Communication Using a CubeSat**	
	D.Sors (Open Cosmos) - **Simple-i: Simple innovation to design missions and support the development of space technologies**	*L.Barros(IMT Atlantique)*- **A Watermarking Like Scheme for 1U Cubesat Communications**	
	C.Lowe (SoXSA)- **Mission, system, and operational analysis tool for CubeSats**		
	F.Dreger (ESA/ESOC OPS-G)- **Flight Dynamics Operations and Mission Analysis Support for CubeSats**		
	S.Damkjar (University of Alberta)- **Platform for Rapid Radiation Testing of CubeSat Subsystems in Particle Accelerator Beam Lines**		
	J.Zhang (Northwestern Polytechnical University) - **A modular CubeSat concept for on-orbit assembly on the space station**		
16:30		**Technical Visits**	
17:40			
18:30	***WELCOME RECEPTION "Cité de l'Espace"***	***CONFERENCE DINNER "Le Manoir du Prince"***	
21:30 / 22:30			