### ESA & CNES Final Presentations : Space Environments and Radiation Effects on EEE components

# Monday, 6 March 2017

### Space Environments and Effects - Newton2 (09:45 - 13:00)

time	[id] title	presenter
09:45	[14] Introduction & Executive summary	Dr FERLET-CAVROIS, Veronique
	[16] ESABASE2: Overview, Maintenance and Distribution Summary and Recent Developments	Dr BUNTE, Karl Dietrich
11:10	Coffee break	
11:40	[17] Space debris from spacecraft degradation products	Dr GORDO, Paulo
12:20	[19] Multi-Needle Langmuir Probe (M-NLP) development	BEKKENG, Tore André
12:40	[63] In-flight data from POLAR	Dr XIAO, Hualin

#### Space Environments and Effects: TEC-EPS - Newton2 (14:00 - 18:25)

time	[id] title	presenter
14:00	[20] Dust electrostatic charging, transport and contamination model for Lunar Lander and human exploration missions	Mr RUARD, Benjamin
	[21] Numerical simulations of Solar Orbiter at its perihelion: spacecraft charging, effects on RPW and SWA-EAS instruments	Dr GUILLEMANT, Stanislas
15:00	[23] ODI databases maintenance	Dr HEYNDERICKX, Daniel
15:30	Coffee break	
16:00	[27] PAMELA Data Exploitation	Dr BRUNO, Alessandro
17:00	[62] Two new ESA projects for radiation belt modelling	Dr HEYNDERICKX, Daniel

# Tuesday, 7 March 2017

### Space Environments and Effects: ESA (TEC-EPS) - Newton2 (09:15 - 12:00)

time	[id] title	presenter
09:30	[28] SSA programme update	Mr LUNTAMA, Juha-Pekka
	[29] SSA Space Weather Elements Radiation Expert Service Centre overview and coordination with TEC Space Environments and Effects activities	Dr GLOVER, Alexi
10:10	[31] Non-Ionsing Energy Loss (NIEL) calculation software and verification	Dr RANCOITA, Pier Giorgio
10:30	[43] High LET radiation effects on DNA in water	Dr SCHWARZ, Christian
10:50	Coffee break	
	[33] Recent vulnerability and hardening studies of optical systems, fibers and fiber sensors at high radiation doses	GIRARD, Sylvain

#### Space Environments and Effects: CNES - Newton2 (12:00 - 17:50)

time	[id] title	presenter
12:00	[65] CNES Introduction	Mrs BEZERRA, Françoise Mr ECOFFET, Robert
	[53] Results from the ICARE-NG detectors onboard SAC-D, JASON 2 and JASON 3 satellites	Dr MAGET, Vincent
12:50	[54] Highly energetic electrons in the inner zone	Dr MAGET, Vincent
13:10	Lunch	
	[55] Impact of the consideration of the LEO trapped proton anisotropy on dose calculation at component level	Dr VAROTSOU, Athina
14:20	[56] A New Proton Model for Low Altitude High Energy Specification (OPAL)	Mrs SICARD-PIET, Angélica
14:40	[57] A new Global Radiation Earth Environement (GREEN) model	Mrs SICARD-PIET, Angélica
15:15	Coffee Break	
	[58] Impact of the consideration of AE9/AP9 models on the space radiation environment specification	Dr VAROTSOU, Athina
15:50	[59] Benchmarking Ionising Space Environment models	Dr BOURDARIE, Sebastien
16:25	[64] Data assimilation technique applied to electron Earth radiation belts	Dr BOURDARIE, Sebastien
	[60] Impact of the mission definition parameters on the space radiation environment specification	Dr VAROTSOU, Athina
	[61] OMERE space radiation environment and effects tool: new developments and new interface	Dr VAROTSOU, Athina