



# Clean Space Industrial Days 2018

## Tuesday 23 October 2018

### Space Debris Mitigation: System Approach to SDM - Erasmus building (14:00 - 15:40)

time	[id] title	presenter
14:00	[49] ESA CleanSat roadmap	SOARES, Tiago
14:20	[50] SDM Requirement for future Sentinels	LEVRINI, Guido
14:40	[54] CNES initiative : Tech for Space Care	OMALY, Pierre
15:00	[79] AIRBUS LEO Platforms compliance to SDM	Mr VAL SERRA, Saturnino Mr BRIOT, Daniel
15:20	[78] TAS LEO platforms compliance to SDM	THIRY, Nicolas

### Space Debris Mitigation: IN-ORBIT BREAK-UP (Passivation and Vulnerability) - Erasmus building (16:00 - 17:30)

time	[id] title	presenter
16:00	[43] Battery safety and passivation	AOUIZERATE, Mathilde
16:20	[16] Batteries explosive properties characterization for LEO Satellites	Mr JAKUSZ, Bartosz
16:40	[53] ESA overview of Fluidic Passivation State of the Art and available passivation valves	GERNOTH , Andreas
17:00	[18] Numerical Simulations for Spacecraft Catastrophic Disruption Analysis	Dr SCHIMMEROHN, Martin

# Wednesday 24 October 2018

## **Space Debris Mitigation: DESIGN FOR DEMISE - Erasmus building (14:00 - 15:30)**

time	[id] title	presenter
14:00	[19] Improved Understanding of Reaction Wheel Demise through Testing and Analysis Within the ReDSHIFT Project	BECK, James
14:30	[46] Methodology and results of demisability testing for state-of-the-art structural joining technologies	FITTOCK, Mark
15:00	[59] Exothermic reaction aided spacecraft demise	SMET, Geert

## **Space Debris Mitigation: DESIGN FOR DEMISE - Erasmus building (16:00 - 17:30)**

time	[id] title	presenter
16:00	[69] Initial Considerations for Re-entry Breakup Experiment	MERRIFIELD, James
16:20	[17] Demisability analysis of Solar Array Drive Mechanism	KÄRRÄNG, Patrik
16:40	[4] Demisable Tank	Mr GOEK, Sylvain
17:00	[62] Demisability analysis of Reaction Wheels	EHINGER, Markus KÄRRÄNG, Patrik

## **Space Debris Mitigation: DESIGN FOR DEMISE - Erasmus building (18:00 - 19:00)**

time	[id] title	presenter
18:00	[47] New Design for Demise technology concepts for structural joining technologies	FITTOCK, Mark
18:20	[37] Demisable Joint	Mrs GRASSI, Lilith
18:40	[48] ALTRAN_D4D Building Blocks - Evolutions & Way Forward	HEINRICH, Stephane

# Thursday 25 October 2018

## **Space Debris Mitigation: DESIGN FOR DEMISE - Erasmus building (09:30 - 11:10)**

time	[id] title	presenter
09:30	[10] Probabilistic modelling of space object controlled reentry and ground risk estimation	SANSON, Francois
10:00	[29] LATEST IMPROVEMENTS ON THE CNES SPACECRAFT-ORIENTED TOOL: PAMPERO	ANNALORO, Julien
10:30	[22] Probabilistic Assessment of Destructive Re-entry	BECK, James

## **Space Debris Mitigation: DEORBETING TECHNOLOGIES - Erasmus building (14:00 - 15:40)**

time	[id] title	presenter
14:00	[42] An introduction to the Semi-Controlled Re-Entry concept and demonstration of its performance	Dr LÉVÉQUE, Nicolas Dr LAGADEC, Kristen
14:20	[41] Controlled re-entry trade-off for LEO satellites	PERRAULT, Sébastien
14:40	[25] Current status of Pre-Qualification of Aluminium-Free Solid Propellant	Mr NOWAKOWSKI, Pawel
15:00	[20] TeSeR – Technology for Self-Removal – Status of a Horizon 2020 Project to Ensure the Post Mission Disposal of Future Spacecraft	VOGT, Cornelius
15:20	[76] Novel Thrust Vectoring Mechanism Design for Controlled De-Orbiting based on Solid Rocket Motor Propulsion	KRAMMER, Anett ROTTMEIER, Fabrice

## **Space Debris Mitigation: Space Debris Mitigation for Small Satellites - Erasmus building (16:00 - 17:30)**

time	[id] title	presenter
16:00	[45] Lessons learnt from the past three years of activity in Space Debris	Mr ANTONETTI, Stefano Mrs LURASCHI, Eleonora
16:20	[1] The ADEO Passive De-Orbit Subsystem: Reference Mission Selection and Preliminary Design of Proto Flight Model	SINN, Thomas
16:40	[27] ARTICA: Cubesat deorbiting system	BELLINI, Niccolò
17:00	[36] Effects of passive de-orbiting with sails on the space debris environment	COLOMBO, Camilla