

2021 Clean Space Industrial Days

Tuesday, 21 September 2021

Managing the end of life: Current challenges and future solutions in LEO and GEO (09:30 - 11:00)

time	[id] title	presenter
09:30	[127] Current challenges and future solutions in LEO and GEO	

Managing the end of life: ESA Space Debris Mitigation and Re-entry Safety Framework – Status and Novelties (11:30 - 12:00)

time	[id] title	presenter
11:30	[65] ESA Space Debris Mitigation and Re-entry Safety Framework – Status and Novelties	VENTURA, Sergio

Managing the end of life: Passivation for managing the spacecraft's end-of-life (14:00 - 15:30)

time	[id] title	presenter
14:00	[128] Passivation for managing the spacecraft's end-of-life	

Managing the end of life: Design for Demise: Models (16:00 - 17:50)

time	[id] title	presenter
16:00	[129] Overview of the Design for Demise existing models	CAIAZZO, Antonio LEMMENS, Stijn
16:20	[57] LATEST EVOLUTION OF THE SPACECRAFT-ORIENTED CODE PAMPERO	Mr SPEL, Martin
16:40	[66] Determination of failure criteria for spacecraft structures during re-entry	FRITSCHKE, Bent
17:00	[164] Destructive Re-entry Assessment Container Object - DRACO	

Wednesday, 22 September 2021

Managing the end of life: Design for Demise: Models (09:30 - 11:30)

time	[id] title	presenter
09:30	[56] Equipment level demise analysis with SCARAB	KÄRRÄNG, Patrik
09:50	[53] Progress in the Understanding and Modelling of Destructive Re-entry	BECK, James
10:10	[77] Heat Flux Measurement on Spinning Test Models in Hypersonics	WILLEMS, Sebastian
10:30	[58] Dynamic Experimental Simulation of the Demise during Re-Entry Flight	SCHLEUTKER, Thorn
10:50	[73] Current status and evolution of D4D modelling at FGE	Dr MERRIFIELD, James

Managing the end of life: Designing Demisable Spacecrafts (11:30 - 13:10)

time	[id] title	presenter
11:30	[102] NOVEL DEMISABLE JOINTS	SAUERBREY, Martin
11:50	[78] High Altitude Break-up Concepts with Additively Manufactured CF-PEEK	Mr PATZWALD, Joel
12:10	[60] Demisable Solar Array Drive Mechanism	EGGEN, Njord
12:30	[92] CONTAINMENT TECHNIQUES TO REDUCE SPACECRAFT RE-ENTRY FOOTPRINT	STEPHANE, HEINRICH
12:50	[135] Demisable Joint	GRASSI, Lilith

Managing the end of life: Sustainability rating (14:00 - 14:30)

time	[id] title	presenter
14:00	[87] Space Sustainability Rating	Dr LETIZIA, Francesca

Thursday, 23 September 2021

Managing the end of life: Passive deorbit devices (09:30 - 11:00)

-Conveners: Tiziana Cardone

time	[id] title	presenter
09:30	[55] ADEO-N – Deployable Passive De-Orbit Sail Subsystem Enabling Space Debris Mitigation for CubeSats, SmallSats and Constellations	LAUBE, Philipp STELZL, Daniel
10:00	[140] Inflatable devices	CARDONE, Tiziana
10:30	[88] Deorbit Kit - modular solution for standardized satellite deorbit	PEITSO, Pyry

Managing the end of life: Controlled reentry (11:30 - 13:00)

time	[id] title	presenter
11:30	[69] Controlled deorbit with Solid Rocket Motor with Thrust Vector Control	Mrs MAJEWSKA, Ewa Mr NOWAKOWSKI, Pawel
12:00	[70] D-Orbit: Designing of the Deorbit Kit for scalability and future use, and how to ensure compatibility with existing spacecraft	GARCES DE MARCILLA, Diego