



# Clean Space Industrial Days & AeroThermoDynamics Design for Demise Workshop

## Tuesday, 24 October 2017

### EcoDesign: Environmental Impact of Space missions - Multimedia library (11:30 - 13:00)

time	[id] title	presenter
11:30	[65] EcoDesign at ESA	Ms MORALES SERRANO, Sara
11:50	[66] LCA of launchers environmental impact	CHANOINE, Augustin
12:10	[67] LCA of satellites environmental impact	CHANOINE, Augustin
12:30	[150] Question & Answers	

### EcoDesign: Ecodesigning a space mission - Multimedia Library (14:00 - 15:30)

time	[id] title	presenter
14:00	[68] EcoDesign: Towards Life Cycle Sustainability of Space Systems	Mr WILSON, Andrew
14:20	[69] Space OPERA: integrating environmental performance into concurrent design	CHANOINE, Augustin
14:40	[70] Lessons learned from the Sentinel 3 LCA and Applications to a GreenSat	Mr THIRY, Nicolas
15:00	[71] Ecodesign applied to ESA's PROBA-Vegetation satellite	VERCALSTEREN, An

### EcoDesign: Atmospheric impact - Multimedia Library (16:00 - 18:00)

time	[id] title	presenter
16:00	[72] Impacts of space vehicles' launch and re-entry on the ozone layer and climate	BEKKI, Slimane
16:20	[73] Atmospheric impact of spacecraft demise	GRASSI, Lilith
16:40	[74] Experimental Modelling of Alumina Particulate in Solid Booster	SAILE, Dominik
17:00	[75] Impact on atmosphere and ocean	KLINK, Sophia
17:20	[76] Questions & Answers	

# Wednesday, 25 October 2017

## EcoDesign: LCA SPACE PROPELLANTS ROUND TABLE - Multimedia Library (09:30 - 11:30)

-Conveners: Johan Berg Pettersen

time	[id] title	presenter
09:30	[113] LCA space propellants Round Table	

## EcoDesign: SINGLE SCORE ROUNDTABLE - Multimedia Library (11:50 - 13:10)

time	[id] title	presenter
11:50	[114] Single Score Round Table	

## EcoDesign: REACH and Obsolescence Risks - Multimedia Library (14:00 - 15:30)

time	[id] title	presenter
14:00	[115] Can citric acid be used as an environmentally friendly alternative to nitric acid passivation for steel? An experimental and Life Cycle Assessment (LCA) study	ZIMDARS, Christopher IZAGIRRE, Usua
14:20	[116] Alternative pretreatments to aluminium	PEREIRA, Ana G.
14:40	[117] REACH replacement of pyrovalve initiator powder	JOANNY, Pierre
15:00	[118] How to assess REACH-related obsolescence risk in early design?	CHANOINE, Augustin BECKER, Tim
15:10	[119] Natural fiber composites for space applications	Mr RION, Julien

## EcoDesign: Space Sustainability - Multimedia Library (16:00 - 18:00)

time	[id] title	presenter
16:00	[120] Space Sustainability in the 21st Century	DEL RIO VERA, Jorge
16:20	[121] Spacecraft design indicator fo space debris	Dr COLOMBO, Camilla
16:40	[122] Towards the consideration of space debris within the Life Cycle Assessment Framework	Mr MAURY, Thibaut
17:00	[123] Simulating the Beginning of the Congestion-Tipping Period for Earth Orbits	VAN PELT, Michel
17:20	[124] Economic value of space debris	ESTEVE, Romain

# Thursday, 26 October 2017

**EcoDesign: Greensat brainstorming - CDF (14:00 - 15:00)**

**EcoDesign: Greensat brainstorming - CDF (15:30 - 18:00)**