

Clean Space Days

Tuesday, 8 October 2024

Zero Debris: Design for Demise - Highbay (09:30 - 11:00)

time	[id] title	presenter
09:30	[26] Demisability Research, Technologies, and a Way Forward to 2030	LOCKETT, Bradley
09:45	[130] Design-for-demise research at DLR in the frame of the TEMIS-DERBIS project	Mr SCHLEUTKER, Thon
10:00	[141] Composite degradation model for spacecraft oriented tool : ESA GSTP NEVADA Project	Mr CONSTANT, Eddy CONSTANT, Eddy
10:15	[88] Demise behaviour of platform optics and electronics	LOCKETT, Bradley
10:30	[147] Roadmap of DEBRISK V4: foreseen modeling and methodology improvements	ANNALORO, Julien

Zero Debris: Design for Demise - Highbay (11:30 - 13:00)

time	[id] title	presenter
11:30	[87] A Thermomechanical Fragmentation Model for Destructive Re-entry Assesments	BECK, James
11:45	[9] Re-Entry Survival Analysis Using The CNES Re-Entry Tools	Dr GALERA, Stephane
12:00	[75] A Simplified Balance Integral Approach for Destructive Re-entry Material Modelling	BECK, James
12:15	[74] Stochastic Assessment of Destructive Re-entry for LEO Spacecraft	CALLEGARO, Edoardo

Zero Debris: Zero Debris Framework - Highbay (16:00 - 17:30)

time	[id] title	presenter
16:00	[59] RAMS AND FDIR METHODS IN SUPPORT TO SDMR	Ms MIQUEL PARRA, Laura
16:20	[114] FAILURE PROGNOSTICS ON LARGE CONSTELLATIONS WITH SELECTED USE OF AI	BRIGHENTI, Chiara
16:40	[91] Space Debris Mitigation Health Monitoring Compliance - Full Steam Ahead	HEPLER, Michael
17:00	[41] Designing, developing and testing space debris mitigation and remediation capabilities through "bottom-up" technology innovation	Dr TKATCHOVA, Stela

Wednesday, 9 October 2024

Zero Debris: Collision Risk Management - Highbay (09:30 - 11:00)

time	[id] title	presenter
09:30	[85] Operational implementation of Space Traffic Management services	DELATTRE, Sylvain
09:45	[133] Interoperability for satellite tracking aids: the Satellite Retroreflector Standards	Dr VIRDEE, Hira
10:00	[150] Rules of the Road applied to collision avoidance autonomy	Ms RAMOS, Marian
10:15	[28] Simulating Space Policy Implications on Collision Avoidance Decisions Using the Environment-Vulnerability-Decision-Technology Framework	Mr WEI, Jonathan
10:30	[154] Spacecraft Beacons: radiocommunication approaches towards interoperable autonomous self-identification and tracking	Mr LANGE, Sebastian

Zero Debris: Platform Activities and Lessons Learned at EOL - Highbay (11:30 - 13:00)

time	[id] title	presenter
11:30	[148] ESA Platform Activities	JOSES, Roxane DE COURSON, Sibyl-Anna
11:50	[103] ISISPACE CubeSats on the road to Zero Debris by 2030	DE BACKER, Lisa
12:10	[138] AN OVERVIEW OF SPACE SUSTAINABILITY AT PROJECT KUIPER	CHANDRAMOULI, Yash
12:30	[109] OPS-SAT-1 reentry campaign and EOL	OERTHER, Tim

Zero Debris: De-orbit and Passivation Technologies - Highbay (14:00 - 15:30)

time	[id] title	presenter
14:00	[19] ADEO – The Deployable Passive De-Orbit Sail Subsystem	HOFFMANN, Frank ARNOUITS, Liesbeth
14:20	[27] Astrobrake: the importance of focusing on reliability and simplicity for deorbiting LEO spacecraft	CULEUX, Jordan
14:40	[142] RAPACE - AOCS with (un)foldable membrane in VLEO	DANDRÉ, Pierre
15:00	[32] Pursuing Innovation – Clean Solid Propulsion for Satellite Deorbitation	Mr NOWAKOWSKI, Pawel

Zero Debris: De-orbit and Passivation Technologies - Highbay (16:00 - 17:30)

time	[id] title	presenter
16:00	[16] Concepts for controlled de-orbiting with green propulsion solutions by ISPTech	LAUCK, Felix
16:20	[112] DARK: Deorbit ARKadia's Kit	KAMENSKYI, Sergii
16:40	[37] D-Orbit's Deorbiting Kit: An unique onboard solution of space debris mitigation by actively deorbiting launch adaptors from the LEO Orbits	Dr CHATTERJEE, Madhubrata
17:00	[140] Passivation Needs for Zero Debris	ALVAREZ DIAZ, Gustavo

Thursday, 10 October 2024

Zero Debris: Design for Removal - Highbay (09:30 - 11:00)

time	[id] title	presenter
09:30	[31] Design for Removal: Astroscale's Service Provider Perspective	TENACCI, Zoe
09:50	[58] MICE-LITE: Reducing mass of the Mechanical Interface for Capturing at End-of-Life to facilitate its integration with small satellites	Mr VALENCIA RESTREPO, Leonardo
10:10	[144] Navigation Markers Development	Mr SZEGEDI, Laszlo
10:30	[143] ADM Test Facility Development	Mr SZEGEDI, Laszlo

Zero Debris: ESA Presentation on Design for Removal Standardisation - Highbay (11:30 - 13:00)

Zero Debris: Dark and Quiet Skies - Highbay (14:00 - 15:30)

time	[id] title	presenter
14:00	[77] ESA Space Debris Mitigation Requirements and compliance verification guidelines for the protection of dark and quiet skies	JILETE, Beatriz
14:15	[34] The IAU Centre for the Protection of the Dark and Quiet Skies - achievements and ongoing work	PEEL, Mike
14:30	[13] The IAU CPS SatHub: Updates on observation campaigns, services and software to mitigate satellite constellation interference	Dr PEEL, Mike
14:45	[131] Mitigating the impact of light pollution from satellites: Strategies for Dark Sky Preservation	Mr PIETERS, Liam
15:00	[12] Towards a Quiet Sky for Radio Quiet Zones	Mr QIU, Harry

Zero Debris: Workshop: Dark and Quiet Skies - Earth Room (16:00 - 17:30)

Friday, 11 October 2024

Zero Debris: Introduction - Tennis Hall (09:00 - 09:30)

Zero Debris: General Comments, Booklet Structure, introduction Chapters (Intro, Terms of Use, Glossary, Towards Circular Economy)) - Tennis Hall (09:30 - 10:15)

Zero Debris: Technical Booklet Next Steps - Tennis Hall (10:15 - 11:00)

Zero Debris: Plenary Session: Technical Booklet Chapter Discussions - Tennis Hall (11:30 - 13:00)

Zero Debris: Plenary Session: Technical Booklet Chapter Discussions - Tennis Hall (14:00 - 15:30)

Zero Debris: Working Group 1: PREVENT RELEASE OF SPACE DEBRIS - Tennis Hall (16:00 - 17:30)

Zero Debris: Working Group 2: GUARANTEE TIMELY AND SUCCESSFUL CLEARANCE - Tennis Hall (16:00 - 17:30)

Zero Debris: Working Group 3: PREVENT DEBRIS GENERATION THROUGH BREAK-UPS OR COLLISIONS - Tennis Hall (16:00 - 17:30)

Zero Debris: Working Group 4: IMPROVE SPACE TRAFFIC SURVEILLANCE AND COORDINATION - Tennis Hall (16:00 - 17:30)

Zero Debris: Working Group 5: PREVENT CASUALTIES ON GROUND - Tennis Hall (16:00 - 17:30)

Zero Debris: Working Group 6: UNDERSTAND AND MITIGATE ADVERSE CONSEQUENCES OF SPACE DEBRIS - Tennis Hall (16:00 - 17:30)

Zero Debris: Wrap-Up and Remaining Actions for Issue 1 Publication - Tennis Hall (17:30 - 18:00)