

organized by



THIRD EDITION  
**CYSAT**  
PARIS 2023

# PROGRAMME

APRIL 26<sup>TH</sup> - 27<sup>TH</sup>



INTEGRASYS

PRIAMOS

LEAFSPACE

OHB

RHEA  
GROUPE

CGI

DISC

wolfSSL

ES  
GROUP

THALES

gmV

OVHcloud

SPACE  
ISAC

cnes

## MAIN STAGE

09:00 – 09:30

**CNES** – Lionel Suchet  
**OPENING**

09:30 – 10:00

**E-SPACE** – Greg Wyler  
**Fireside chat**

10:00 – 10:30

**RHEA Group** – Matteo Merialdo & Ana-Maria Matejic  
**The risk governance model for supply chain cybersecurity in space**

10:30 – 11:00 | Breakfast

11:00 – 11:30

**ESPI** – Clémence Poirier  
**The War in Ukraine from a Space Cybersecurity Perspective**

11:30 – 12:00

**Deputy Chairman of State Service of Special Communications and Information Protection of Ukraine** – General Oleksandr Potii  
**Live from Kiev**

12:00 – 12:30

**DLR** – Sabine Philip-May  
**The approaches taken by the German Space Agency DLR**

12:30 – 13:30 | Lunch Break

13:30 – 14:30

**The EU Space Program**  
Guillaume de La Brosse, European Commission DG-DEFIS  
**Protection of space systems in the EU : a paradigm shift ?**  
Rodrigo da Costa, EUSPA  
**EUSPA and the security of the EU Space Program**  
Claude Schanet, EUSPA  
**EUSP SAB – EU Space programme's security accreditation authority**

14:30 – 15:30

**PANEL: Information sharing and collective intelligence for the global space industry**

**SPEAKERS:**

- Erin Miller, Space-ISAC
- Paul Varela, EUSPA
- Andre Adelsbach, SES
- Samuel Visner, Space-ISAC

**MODERATOR:** Florent Rizzo, CyberinFlight

15:30 – 16:00 | Coffee Break

16:00 – 16:45

**European Commission DG DEFIS-B1 & ESA**  
Nicolas Guillermin, Christophe Allemand & Massimo Mercati  
**Overview of cybersecurity challenges for the IRIS2 constellation**

16:45 – 17:45

**PANEL: What are the cybersecurity challenges for the IRIS2 constellation and how to address them?**

**SPEAKERS:**

- Yacine Felk, CYSEC
- Alain Yvon, THALES SIX
- Étienne Gérain, PRIAMOS
- Walter Ballheimer, Reflex Aerospace
- Bertrand Leconte, Airbus Defense and Space

**MODERATOR:** Badia Belkouchi, Euroconsult

## LA FRENCH TECH

09:30 – 10:00

**University of Luxembourg** – Rafal Graczyk  
**CritiX Space Safety and Security Lab: a path towards trustworthy space systems**

10:00 – 10:30

**Ruhr University Bochum** – Johannes Willbold  
**An Experimental Security Analysis of LEO Satellites**

10:30 – 11:00 | Breakfast

11:00 – 11:30

**CYSEC** – Emna Amri & Yannick Roelvink  
**Combining security and performance in GEO satcom links**

11:30 – 12:00

**INTEGRASYS** – Alvaro Sanchez  
**Spectrum Superiority and Cyber Intelligence in Conflicts**

12:00 – 12:30

**OneWeb** – Wendy Ng  
**Cyber Considerations for LEO Constellations**

12:30 – 13:30 | Lunch Break

13:30 – 14:00

**CS Group** – Antoine Casanova & Gaetan De Dobbeleer  
**Prelude NG: SIEM to unify SOC**

14:00 – 14:30

**GAMA & Tweede Golf** – Chris de Claverie & Wouter Geraedts  
**Rust for satellite flight software // Enabling a LEO solar sailing demonstrator at GAMA**

14:30 – 15:00

**THALES** – Sylvain Barbier, Laurence Laborde & Sylvain Hannelais  
**Counter cyber threats in Space domain: current and future capabilities**

15:00 – 15:30

**SATELLOGIC** – Gerardo Richarte  
**Secure operations of a Constellation as a Service platform**

15:30 – 16:00 | Coffee Break

16:00 – 16:30

**SPACEBEL** – Jérémie Gaffarel  
**Secured CCSDS communication with SDLS standard on the new European control centre infrastructure (EGS-CC)**

16:30 – 17:00

**GMV** – Julio Vivero  
**A cybersecurity solution for operational ground systems**

17:00 – 17:30

**AUREA Technology** – Emmanuel Fretel  
**Quantum-safe Communications**

17:30 – 18:00

**DeepCode & DISC** – Jon Rasiko & Nicholas Scheurkogel  
**Cyber Attack Taxonomy for Satellites: Precursor to Proper Defence**

18:00 – 21:00 | Networking Cocktail

## MAIN STAGE

09:00 – 09:30

**LEAF SPACE** – Raffaele Bua

**Cyber security AI anomaly detection for Ground Segment as a Service**

09:30 – 10:30

**PANEL: "As a service" missions: how to trade-off users benefits and security risks?**

**SPEAKERS:**

- Giovanni Pandolfi Bortoletto, LEAF SPACE
- Guillaume Tanier, Leanspace
- Stefan Langhammer, OHB Digital Connect GmbH
- Étienne Gérain, PRIAMOS
- Gerardo Richarte, Satellogic

**MODERATOR:** Carla Filotico, Spaceteq Partners

**10:30 – 11:00 | Breakfast**

11:00 – 11:30

**OVH Cloud** – Charlotte Letamendia

**Leveraging Earth Observation data in an approach respectful of security and sovereignty**

11:30 – 12:00

**ESA** – Massimo Mercati

**ESA's cybersecurity strategy**

12:00 – 13:00

**PANEL: "The role of cloud services in securing the ground segment and space data"**

**SPEAKERS:**

- Alessandro Di Felice, OVHcloud
- Thomas Girard, CS Group
- Marc Niezette, Telespazio
- Florian Schneider, CGI
- Julio Vivero, GMV

**MODERATOR:** Claude Rousseau, NSR

**13:00 – 14:00 | Lunch Break**

14:00 – 14:30

**BSI** – Stefanie Grundner & Manuel Hoffmann

**Resilience in Space – throughout a Satellite's Life Time**

14:30 – 15:00

**OHB Digital Connect** – Stefan Langhammer

**Modular Security for commercial satellite projects**

15:00 – 15:30

**CGI** – Carlos Garcia Cordero

**On the applicability of zero-trust to the space domain**

**15:30 – 16:00 | Coffee Break**

### HACK-CYSAT

16:00 – 16:30

**ESA** – David Evans

**Introducing Hack CYSAT 2023**

16:30 – 17:00

**THALES**

Guillaume Tessier, Arnaud Gatignol, Quentin Minster & Brian Jouannic

**World premiere: In-orbit demonstration of offensive security**

## LA FRENCH TECH

09:00 – 9:30

**LEANSPEACE** – Gaurav Lanjekar

**How to guide: Secure space systems with encryption**

09:30 – 10:00

**CYSEC** – Louis Masson

**Demonstration of end-to-end protection of CCSDS satellite communications**

10:00 – 10:30

**ETHIACK** – Jorge Monteiro & Andre Baptista

**Ethical hacking demonstration**

**10:30 – 11:00 | Breakfast**

11:00 – 11:30

**ESA** – Antonios Atlasis & Laurence Duquerroy

**ESA's Space Systems for Safety and Security: Opportunities and Practical Developments**

11:30 – 12:00

**RHEA Group** – Johan Helin

**The cyber range alternative to space systems simulation**

12:00 – 12:30

**ArianeGroup** – Sylvain Barbeau

**Launch preparation operations & security reconciliation ? – Ariane 6 case study**

12:30 – 13:00

**University of South Australia** – Jordan Plotnek

**A Threat-Driven Approach to Assessing Space System Resilience**

**13:00 – 14:00 | Lunch Break**

14:00 – 14:30

**The Aerospace Corporation** – Brandon Bailey

**Hacking Spacecraft using Space Attack Research & Tactic Analysis**

14:30 – 15:00

**John Hopkins University** – Nicolo Boschetti

**Commercial Space Risk Framework Assessing the Satellite Ground Station Security Landscape for NATO in the Arctic & High North**

15:00 – 15:30

**Norwegian University of Science & Tech** – Matteo Calabrese

**Traversing Payload Isolation in CubeSats**

**15:30 – 16:00 | Coffee Break**

16:00 – 16:30

**wolfSSL** – Daniele Lacamera

**wolfBoot: secure bootloader for safe and reliable firmware updates on aerospace systems**

10:00 – 13:00  
**JUNIOR STAGE**

**SPACE ISAC**

**Hera's Revenge:**  
Space Systems  
Crisis Exercise

APRIL 26<sup>TH</sup> - 27<sup>TH</sup>



## AT THE INNOVATION CORNER



University of  
South Australia



POLITÉCNICA



JOHNS HOPKINS  
UNIVERSITY



University of  
Luxembourg



**M** UNIVERSITY OF  
MICHIGAN



Northeastern  
University



UNIVERSITY OF  
OXFORD

**CISPA**

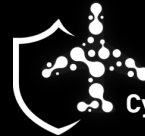
**NTNU**

RUHR  
UNIVERSITÄT  
BOCHUM

**RUB**



## AT THE STARTUP CORNER



CyberInflight

**ETHIACK**  
ethically-driven security



GATEWATCHER



CRAFT  
PROSPECT



CDex

leanSPACE

**AUREA**  
TECHNOLOGY



tweede golf

CONTACT US

[www.cysat.eu](http://www.cysat.eu)

[cysat@cysec.com](mailto:cysat@cysec.com)

[linkedin/cysatspace](https://linkedin.com/company/cysatspace)

Organized by



**CYSEC**