



**Photonics:  
Beyond Space Frontiers**  
Space Users  
Conference

**31.05  
2023**

iXcampus  
St Germain en Laye  
France

**exail**

# AGENDA | 31 MAY 2023

09:00 a.m. Breakfast & Registrations

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09:45 a.m. Welcome Speech

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## ONBOARD OPTICAL SPACE COMMUNICATIONS CHALLENGES

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10:00 a.m. **ESA** | Iain Mckenzie | tba

10:20 a.m. **Airbus** | Ludovic Blarre | TELEO ready to fly!

10:40 a.m. **Thales Alenia Space** | Cyrille Laborde and Anaëlle Maho | Free space optical communications in Thales Alenia Space and focus on Vertigo project

11:00 a.m. **TESAT** | Gregory Mark | Advancements in in-orbit laser communication systems

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11:20 a.m. Coffee Break

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11:40 a.m. **NICT** | Morio Toyoshima | tba

12:00 a.m. **G&H** | Peter Kean | Optical amplifiers for OISL and ground-to-space laser communications

12:20 a.m. **DAS Photonics** | Recent progress in space based QKD

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12:40 a.m. Lunch & visit of Exail manufacturing facilities

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## EARTH-TO-SPACE LASER COMMUNICATIONS WITH NEW OPTICAL GROUND STATIONS SESSION

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2:40 p.m. **CNES** | Frédéric Lacoste | Ground to space optical links for SatCom : current and future challenges

3:00 p.m. **ONERA** | Aurélie Bonnefois | Works on adaptive optics pre-compensation for optical GEO feeder links at ONERA

3:20 p.m. **Airbus** | Thomas Anfray | TELEO optical ground station: an overview and focus on the optical transceiver

3:40 p.m. **DLR** | Pablo Dominguez – COMPASSO | In-orbit verification of optical key technology for future GNSS

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04:00 p.m. Coffee Break

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**TOWARDS BETTER EARTH OBSERVATION INSTRUMENTS AND NEW MEASUREMENT SYSTEMS**

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04:20 p.m. **CNES** | Thomas Lévêque | CARIOQA: a pathfinder mission for quantum space gravimetry

04:40 p.m. **DLR** | Alex Boac – Development of COMPASSO’s high performance iodine frequency reference using electro optical modulators.

05:00 p.m. **NASA** | Anthony Yu – Laser transmitter development for the LISA mission

05:20 p.m. **Menlo Systems** | Matthias Lezius – Radiation tolerant frequency comb fiber laser for space applications

05:40 p.m. **Laboratoire Hubert Curien** | Sylvain Girard – Fiber-based dosimetry: from ground applications to International Space Station.

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06:00 p.m. Closing remarks

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06:15 p.m. Networking dinner

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Please note that this first version of the agenda is subjected to changes.  
A final version of the agenda will be shared at a later date.