

ESCCON 2023 – Welcome Note

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SCSB Chair

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ESA/ESTEC

Noordwijk, The Netherlands

ESCCON 2023 – Toulouse

141 registered participants
17 registered for remote attendance
No Panel Session

ESCCON 2023

The European Space Components Conference

7 - 9 March 2023 | Toulouse | France

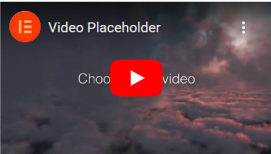
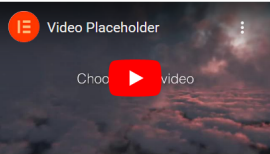
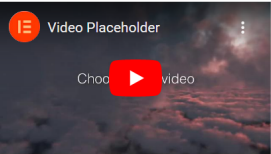


Event

If you are a participant you can access the live stream of the day via Youtube.

If you are a speaker or want to interact with the room we invite you to join the conference via Zoom.

The links will be available from March 6th.

7 March 2023	8 March 2023	9 March 2023
<div>Live stream</div> <div></div> <div>Click here to take part at the Zoom session</div> <div>You can log in 30 minutes before the scheduled time. Please wait until the host admit you to the session. We recommend you to ask questions using the zoom chat.</div>	<div>Live stream</div> <div></div> <div>Click here to take part at the Zoom session</div> <div>You can log in 30 minutes before the scheduled time. Please wait until the host admit you to the session. We recommend you to ask questions using the zoom chat.</div>	<div>Live stream</div> <div></div> <div>Click here to take part at the Zoom session</div> <div>You can log in 30 minutes before the scheduled time. Please wait until the host admit you to the session. We recommend you to ask questions using the zoom chat.</div>

ESCCON 2021- fully remotely

No registration fee
633 registered participants
>300 participants per session
Panel Session on Supply Chain

ESCCON

9 - 11 March 2021 | Online | CET Time Zone





What Happened since ESCCON 2021?

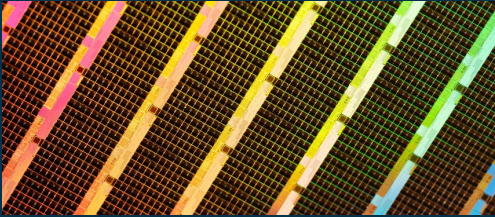
- Issues related to the EEE supply chain slightly eased
- Geopolitical impact on procurement of materials and components remains
- COTS Activities launched via the ESA OSIP platform and ongoing
- ESA EEE Component European Sovereignty Program
- EU Chips Act (presentation on Day 2)
- EEE Conferences:
 - ACCEDE 2022
 - Discussion on use of COTS in Space
 - SPCD 2022 (Space Passive Component Days)
 - RADECS 2021 (hybrid), RADECS 2022 (on site)



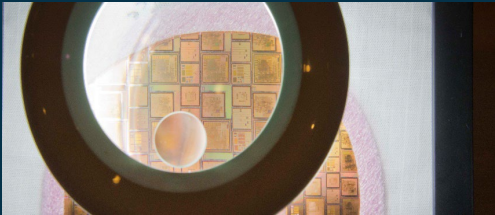
EEE Component Sovereignty



Establishing long-term sustainable and uninterrupted access of state-of-the-art technologies for the European Space Industry



Enabling European competitiveness, by ensuring the right technology, at the right maturity level is available at the right time unhindered by (export) restrictions



Fostering long-term industrial partnerships with strategic EEE manufacturers allowing continuous access of relevant EEE Components supported by advanced procurement



Pursuing a collaborative framework mechanism with supply-chain, end users, ESA programme directorates, national space agencies, European Commission and European Defence Agency with flexible development up to qualification, adopting E2E secured funding to achieve time-to-market



GSTP component approved at the Ministerial Council with a target of 155 M€ funding envelope

- Photonic parts
- GaN for Power applications
- Lead-free and advanced packaging
- New technologies
- Standardisation
- ESCC and Space Agencies Reports
- Manufacturers Presentations

Day 1 - March 28th				Day 2 - March 29th				Day 3 - March 30th			
Time	Topic	Speaker	Chairman	Topic	Speaker	Chairman	Topic	Speaker	Chairman		
09:00 to 09:30	Opening Speech ESA - Britta Scheele	1	Daniela Tschögl Jean-Baptiste Sasseville CNES	Power GaN: the perspective of a European supplier STM - Eric Mercier	5	Alexandre Gaudin ADS	Thomas Turckling ESA	On-orbit Validation to Mitigate the Mission Growth JAXA - Akimasa Shiohara	9	Martin Voth Airbus - TESAT	Denis Lacoste ESA
09:30 to 10:00	European Space Agency Plan ESA - Olivier Perat	1	Daniela Tschögl Jean-Baptiste Sasseville CNES	JDEEC ACTI committee on Wide Bandgap Power Electronic Conversion Semiconductors Infineon - Peter Fritzsche	5	Alexandre Gaudin ADS	Thomas Turckling ESA	ECSS update ESA - Gaojie Velliste	9	Martin Voth Airbus - TESAT	Denis Lacoste ESA
10:00 to 10:30	JAXA Presentation JAXA - Kazuo Hoshida	1	Daniela Tschögl Jean-Baptiste Sasseville CNES	SCRET contribution to study of dynamic effect on the SC MOSFET ALTER In / HSE - Olivier Perennet	5	Alexandre Gaudin ADS	Thomas Turckling ESA	Load free roadmap ESA - Gaetan Comte	9	Martin Voth Airbus - TESAT	Denis Lacoste ESA
10:30 to 11:00	CNES Presentation CNES - Florence Malou	1	Daniela Tschögl Jean-Baptiste Sasseville CNES	GaN Power Modulation and Challenge ADS - Marcel Catellani	5	Alexandre Gaudin ADS	Thomas Turckling ESA	CTB roadmap PCB ADS	9	Martin Voth Airbus - TESAT	Denis Lacoste ESA
Break											
11:00 to 11:30	State of the art and future need ESA - Anna Usher	2	Thilo Kauplich DLR	Andrew Millington Raytheon Company	6	Eva Diez ALTER Sp.	Karin Landmark ESA	Back to the Moon - Artemis (EMF) Insights TESAT - Frédéric Karch	30	Viktor Lepelshin Microchip	Nolan Gutierrez CNES
11:30 to 12:00	High speed serial links: Architecture and Optical transceiver selection and outlook on future needs TSC - Linda Giffels	2	Thilo Kauplich DLR	Andrew Millington Raytheon Company	6	Eva Diez ALTER Sp.	Karin Landmark ESA	Market view, market risks and mitigation ADS - Martin Voth	30	Viktor Lepelshin Microchip	Nolan Gutierrez CNES
12:00 to 12:30	Different photonic part approach strategies, from specific project to product range ESA - Vincent Carlier	2	Thilo Kauplich DLR	Andrew Millington Raytheon Company	6	Eva Diez ALTER Sp.	Karin Landmark ESA	Air-Electronic solutions for space Air-Electronic - Emmanuel Girardot	30	Viktor Lepelshin Microchip	Nolan Gutierrez CNES
12:30 to 13:00	Space photonic research projects: Optical and optical transceiver characterization ALTER Sp. - Antoine Jurgens	2	Thilo Kauplich DLR	Andrew Millington Raytheon Company	6	Eva Diez ALTER Sp.	Karin Landmark ESA	TPGCS and Hardware-Based Security - Component up to System Level Aspects TSCAT - Alberto Molteni	30	Viktor Lepelshin Microchip	Nolan Gutierrez CNES
13:00 to 13:30	Main-Flow Improvement Solutions for payload data processing Thales - Yann Le Gouez	2	Thilo Kauplich DLR	Andrew Millington Raytheon Company	6	Eva Diez ALTER Sp.	Karin Landmark ESA	GR170 and GR170T next-gen HSC-III multi-core processor Froggdata-Galaxy - Frédéric Bernhardt	30	Viktor Lepelshin Microchip	Nolan Gutierrez CNES
Lunch											
14:00 to 14:30	Activity Testing of IMAGe-based Flow Optics Transmitters for Space Applications Siles Immoent - Julien Pissard	3	Frederik Kuechen TESAT	Denis Lacoste ESA	7	Elisabeth Marin TAG	Leo Fontaine CNES	Scalable solutions to face new space challenges in Europe Microchip - Nicolas Galy	31	ADS	Thilo Kauplich DLR
14:30 to 15:00	Amphimed Marsh Environment - New Solutions Amphimed - Commercial Release	3	Frederik Kuechen TESAT	Denis Lacoste ESA	7	Elisabeth Marin TAG	Leo Fontaine CNES	PPSA Presentation TSC	31	ADS	Thilo Kauplich DLR
15:00 to 15:30	CHIMERA Beam line at CERN and the SCORNET program CNES - Nicolas Comte	3	Frederik Kuechen TESAT	Denis Lacoste ESA	7	Elisabeth Marin TAG	Leo Fontaine CNES	The European next-Gen PPSA: PPSA available for future space applications ADS & TAG - Jean-Luc Piquet & Grégory Grissonnet	31	ADS	Thilo Kauplich DLR
15:30 to 16:00	Real challenges at NASA NASA - Michael Campbell	3	Frederik Kuechen TESAT	Denis Lacoste ESA	7	Elisabeth Marin TAG	Leo Fontaine CNES	No-Board data counter - new development and first measurements Tubelyst/ESV - François Blet	31	ADS	Thilo Kauplich DLR
Break											
16:00 to 16:30	Real testing challenges THALES - Pierre Garcia	4	François Noudin CNES	Jean-Louis Cassac TAG	8	Nathalie Jaccout TAG	Giancarlo Gualini CNES	1 Gbit Radiant MMIO with serial interface - Microsemi	32	ALTER	Florence Malou CNES
16:30 to 17:00	CREAM: A miniaturized spectrometer for measurement of positrons and electrons on orbit CNES - Armand Dubois	4	François Noudin CNES	Jean-Louis Cassac TAG	8	Nathalie Jaccout TAG	Giancarlo Gualini CNES	ESA Presentation DLR - Thilo Kauplich	32	ALTER	Florence Malou CNES
17:00 to 17:30	ESA update on European reduction facilities ESA - Alessandra Chiantera	4	François Noudin CNES	Jean-Louis Cassac TAG	8	Nathalie Jaccout TAG	Giancarlo Gualini CNES	ESA CapEx Space - Technologies in the Strategic Research Agenda ESA - Dirk Korbmann	32	ALTER	Florence Malou CNES
17:30 to 18:00	JPL ESTE Part Supply Chain Challenge JPL - Jeremy Thomas	4	François Noudin CNES	Jean-Louis Cassac TAG	8	Nathalie Jaccout TAG	Giancarlo Gualini CNES	PPSNG Presentation CNES - Thomas Turckling	32	ALTER	Florence Malou CNES
18:00 to 18:30	James Webb Space Telescope (JWST) ESTE Part Progress NASA - Alex Hays	4	François Noudin CNES	Jean-Louis Cassac TAG	8	Nathalie Jaccout TAG	Giancarlo Gualini CNES	Closing speech	32	ALTER	Florence Malou CNES
Welcome Reception											
Conference Dinner											

- launch with Ariane 5 planned for April 2023 from CSG
- will study three Galilean moons (Ganymede, Calisto, and Europa)

- launch with Falcon 9 planned for July 2023 from Cape Canaveral
- objective is to better understand dark energy and dark matter

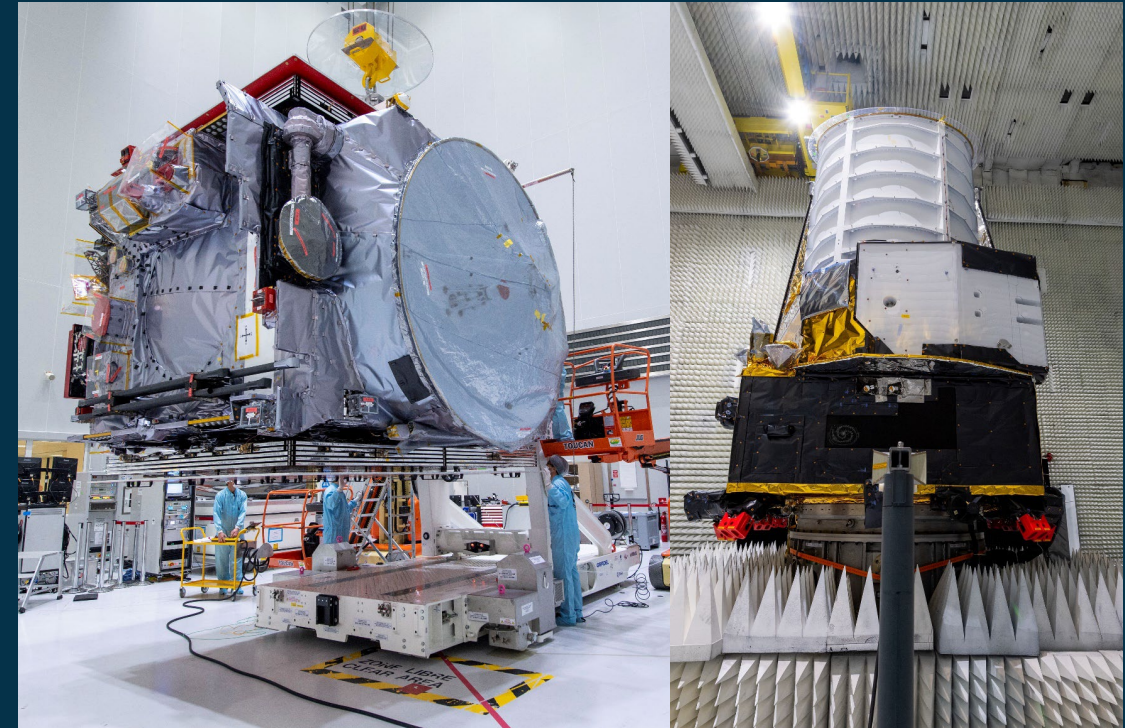
- Carole G. Mundell has been appointed as D/SCI as of 1.3.2023
- Dietmar Pilz has been appointed as D/TEC as of 1.5.2023

- EEE space component sovereignty program for Europe approved

- Andreas Mogensen scheduled to fly to ISS in August 2023

ESA Transformation launched

ESA Mission Classification



IRIS2

- ESA has started work on supporting the EU's new flagship space programme
- satellites and their ground stations are expected to be operational by the end of 2027

- Promote European strategic component technologies
- Exchange on challenges and Lessons Learned
- Update on European regulatory framework
- Networking and cooperation

Thank you for your attention!

escies.org
ecss.nl
spacecomponents.org
esa.int