

DAY ONE - 07/06/2022

10:20	11:10	Registration & welcome coffee	ATPI & DLR Organisers	
11:10	12:00	Opening Session	On site welcome and workshop overview	
11:30	12:00	Keynote I: An operators' vision for Optical & Quantum Communication	Harald Hauschildt, ESA and Frank Bensch, DLR Antonio Abad, Hispasat	
12:00	12:45	Lunch Break	12:00	12:45
12:45	14:55	Technical Talks (parallel sessions)	12:45	14:55
		Optical Track / Beethoven Saal (Room 1)		Quantum Track / Grüner Saal (Room 2)
		Moderator: Zoran Sodnik, ESA		Moderator: Niklas Lindman, ESA
12:50	13:30	HydRON: Highlight talks by ESA, Airbus Defence & Space and Thales Alenia Space Italy	12:45	13:45
		Klaus Schönherr, Airbus Defence & Space Alberto Pandolfi, TAS-I Josep Perdigues, ESA		SAGA: Highlight talks by ESA, OHB System AG, Thales Alenia Space Italy and Airbus Defence & Space
13:30	13:40	Optical Communication for Space in Use	13:45	13:55
		Matthias Motzigemba, Tesat Spacecom		The latest trends in Entangled-Based Quantum Communications
13:40	13:50	Airbus GEO optical feeder roadmap	13:55	14:05
		Ludovic Blarre, Airbus Defence & Space		Squeezing-enhanced continuous-variable satellite quantum communication
13:50	14:00	Transmission of onboard data through optical wireless links	14:05	14:15
		Ernesto Ciaramella, Scuola Superiore Sant'anna		Quantum communication ESA-projects in Hungary
14:00	14:10	New Space Enabling Optical Technology at Media Lario	14:15	14:25
		Giovanni Bianucci, Media Lario S.r.l.		A cubesat mission for dual downlink entanglement based quantum key distribution
14:10	14:20	Development of optical terminals for small satellite platforms	14:25	14:35
		Jeroen Cappaert, CTO, Spire Global		Optical Communications at Thales Alenia Space
14:20	14:30	Optical and Quantum Communications in Thales Alenia Space	14:35	14:45
		Cyriil Laborde, Quantum & Optical Comms Capture Leader, Thales Alenia Space		Optoelectronic Communication Subsystems
14:30	14:40	Advancements and Overview on Optical SatCom in the Netherlands		
		Niel Truyens, Business Director, TNO SatCom		
14:40	14:45	Pitch: Optical Ground-Space Links with EDRS		
		Greetje Janßen, Airbus Defence & Space		
14:55	15:10	Coffee Break	14:55	15:10
15:10	16:50	Technical Talks and Pitches (parallel sessions)	15:10	16:50
		Optical Track / Beethoven Saal (Room 1)		Quantum Track / Grüner Saal (Room 2)
		Moderator: Bryan Lovrinovic, DLR		Moderator: Gerd Kochem, DLR
15:10	15:15	Development and qualification of optical amplifiers for space based telecommunication	15:10	15:20
		Jean-paul Dufour, Cilas		Eutelsat activities towards GEO QKD
15:25	15:35	High efficiency laser amplifier for 10-channel coherent optical communication	15:20	15:30
		Peter Weißels, Laser Zentrum Hannover e.V.		TNO's activities towards GEO QKD
15:35	15:45	High-efficiency fiber optic booster amplifiers for spacecraft FSO links	15:30	15:40
		Davinder Basuita, Glenair		Current Status on Quantum Communication from the Perspective of a Large System Integrator
15:45	15:55	Novel laser systems for 1064 nm coherent WDM laser communication terminals	15:40	15:50
		Christian Dahl, Spacetech Gmbh		Highly integrated faint pulse source for polarization-encoded quantum communication
15:55	16:05	Integrated Photonics for Space Based Communication	15:50	16:00
		Stephan Roemer, Antwerp Space		Towards ultra- bright polarization entanglement by time reverse HOM interference
16:05	16:10	UltraAir - Optical Satellite Communications for Airborne and Mobile Platforms	16:00	16:10
		Matthias Wiegand, Airbus Defence & Space		Stable, low-error, and calibration-free polarization encoder for free-space quantum communication at 800nm
16:10	16:20	Pitch: Modelling of optical turbulence for satellite to ground optical communications	16:10	16:20
		Florian Quatresooz, UCLouvain		Optical high-speed and quantum communication systems at Fraunhofer HHI
16:20	16:30	AI is a challenge, sometimes it makes sense!	16:20	16:30
		Uwe Sterr, ST2C		Optical Technologies for Next Generation High Throughput Optical Inter-Satellite Links
16:30	16:40	Anatolia project: Atmospheric monitoring and forecasting for 24/7 optical links availability	16:30	16:40
		Sarah Vadillo-Quesada, Reuniwatt		Ultra-bright polarization-entangled photon source based on frequency-multiplexed long-distance entanglement distribution
16:50	17:25	Closing Session		
		Keynote II: Optical communication for the space: new born or revival?		
		Jim Zou, Senior Global Business Development Manager, ADVA Optical Networking		
17:20	17:25	Wrap up first day	Harald Hauschildt, ESA and Frank Bensch, DLR	
			Coffee Break	
19:00	23:00	Conference Dinner	Dinner Cruise on the River Rhine	

DAY TWO - 08/06/2022

08:25	08:30	Organisers' Welcome	Harald Hauschildt, ESA and Frank Bensch, DLR
08:30	09:50	Welcome and Opening Session	Moderator: Frank Bensch, DLR
08:30	08:50	DLRs Welcome	René Kleeßen, DLR
08:50	09:10	ESA Welcome on behalf of Director	Dietmar Schmit on behalf of Elodie Viau, Director of Telecommunication and Integrated Applications, ESA
09:10	09:20	Recap first day	Björn Gütlich, DLR
09:20	09:50	Keynote III: Quantum Technology Research Trends	Christoph Marquardt, Friedrich-Alexander-Universität Erlangen
09:50	10:10	Coffee Break	
10:10	12:10	Highlight Lectures	Moderator: Harald Hauschildt, ESA
10:10	10:30	Space Based Edge Computing for Industry	Thomas Scheiter, Head of Technology Field Connectivity & Edge
10:30	10:50	Kepler Communication - Entrepreneurs vision of optical communication	Wen Cheng Chong, CEO Kepler Communications
10:50	11:10	Optical technology in future Satellite Positioning- Navigation-Timing (PNT) Systems	Francisco-Javier Benedicto Ruiz, Director of Navigation, European Space Agency
11:10	11:30	EUSPA and EU Space Programme - Govsatcom the new component	Christina Giannopapa, Head of the Office of the Executive Director, European Union Agency for the Space Programme
11:30	11:50	The Australian Roadmap to Optical / Quantum Communication	Aude Vignelles, Chief Technology Officer, Australian Space Agency
11:50	12:10	Group Photo	Everybody!
12:10	13:10	Lunch Break	
13:10	14:50	Agency Panel and Discussions	
13:10	13:50	Scylight Update and Outlook future Workplan	Harald Hauschildt, ScyLight Manager, ESA
13:50	14:50	Round Table with ESA Delegates Open discussion	Moderator(tbc) : Bert Meijvogel (Netherlands Space Office). Participants : Henny Abuzaid (UK Space Agency), Dimitrios Kaglis (Ministry of Digital Governance Greece), László Bacskardi (Hungary), Frank Bensch (German Space Agency DLR) and TBC.
14:50	15:00	Break	
15:00	16:15	Operational Perspectives & pitches	Moderator: Clemens Heese, ESA
14:50	15:00	The Optical Nucleus Network	Clemens Heese and Martin Krynitz
15:00	16:15	The NODES project – Development of an optical communications ground network for DTE service.	Hanna Sundberg, Lead System Architect, Swedisch Space Corporation
15:00	15:20	Experimental Study of the Impact of Molecular Absorption on Coherent Free Space Optical Links	Sylvain Almonacil, Nokia Bell Labs
15:20	15:30	Greek Chelmos Observatory readies for Optical and Quantum Communication	Emmanuel Xilouris, National Observatory Of Athens
15:30	15:40	OPS SAT - ESA's orbital optical test lab	David Evans & Christopher Vasko, European Space Agency
15:40	15:45	Pitch: Lunar Optical Comms - Why?	Martin Krynitz, Kongsberg Satellite Services
15:45	15:50	Pitch: Short Term link planning for Optical Links through the Atmosphere	Jean-Edouard Comunal, Co-Founder & CEO,
15:50	16:00	Pitch: Preliminary results of portable optical ground station tests by Astrolight	Vidmantas Tomkus, CEO Astrolight
16:15	16:25	Wrap up & concluding remarks	Harald Hauschildt, ESA and Frank Bensch, DLR
16:25		End of Conference	