

# ***SPACE2CONNECT 2021 CONFERENCE***

**Shaping the future together**

11–14 October 2021 | ONLINE EVENT

## **PROGRAMME OVERVIEW**

# PROGRAMME OVERVIEW

Date	Time	VIRTUAL ROOMS				
		PLENARY	GROUND	PAYLOAD	PLATFORM	SYSTEMS & FUTURE PREPARATION
Day 1   11 October	14:00-14:10	Welcome address				
	14:10-14:15	Setting the scene of the S2C conference Strategic program orientation of TIA for CM22+ & agenda 25				
	14:15-15:25	Session 1: Innovative connectivity on Earth and beyond				
	15:30-16:25	Session 2: Resilient connectivity for European Citizens				
	16:30-17:25	Keynotes: Space role & investment in economic recovery & future market opportunities				
	17:30-18:25	Session 3: Cloud Transformation, Artificial Intelligence and Digital Economy: how can space add value in this?				
	18:25-18:30	DAY 1 wrap up				
Day 2   12 October	09:00-09:15	Introduction of the day				
	09:15-10:10	Session 4: Space2Move: 5G/6G & the Integration of Satcom in Future Networks				
	10:15-11:10	Session 5: Space2Protect: Satcom for Safety and Security				
	11:15-12:00	Session 6: Light2Connect - Optical and Quantum future Communications				
	12:00-13:30	LUNCH BREAK				
	13:30-14:00	ESA Satcom Final Presentation Days 2021 Introductory presentations				
	14:00-14:20		ANTENNA & RF	ANTENNA	PROPULSION	NEXT GENERATION SATCOM SYSTEMS
	14:20-14:40					
	14:40-15:00					
	15:00-15:20					
	15:20-15:40	Session 7: Space for Green Value				
	15:40-16:00					
	16:00-16:20		ANTENNA & RF	ANTENNA		NEXT GENERATION SATCOM SYSTEMS
	16:20-16:40	Session 8: Blending New Space Technologies and services				
16:40-17:00						
Day 3   13 October	09:00-09:20		MANAGEMENT & CONTROL	REPEATER	POWER	NEXT GENERATION SATCOM SYSTEMS
	09:20-09:40					
	09:40-10:00					
	10:00-10:20					
	10:20-10:40					
	10:40-11:00					
	11:00-11:20		NETWORKS	REPEATER	POWER	NEXT GENERATION SATCOM SYSTEMS
	11:20-11:40					
	11:40-12:00					
	12:00-13:00	LUNCH BREAK				
	13:00-14:00	Session 9: Space2Ground – Integration of Ground and Space technologies				
	14:00-14:20		NETWORKS	REPEATER	SYSTEMS & ARCHITECTURE COMMAND & DATA HANDLING	ADVANCED TECHNOLOGIES
	14:20-14:40					
	14:40-15:00					
	15:00-15:20					
	15:20-15:40					
15:40-16:00		HUB & MODEM	REPEATER	THERMAL SYSTEM AOCS	STRATEGY RESEARCH	
16:00-16:20						
16:20-16:40						
16:40-17:00						
Day 4   14 October	09:00-09:20		HUB & MODEM	REPEATER	MECHANICAL	STRATEGY RESEARCH
	09:20-09:40					
	09:40-10:00					
	10:00-10:20					
	10:20-10:40	Session 10: Workshop - Digital Transformation & Green Economy				
	10:40-11:00					
	11:00-11:20			SYSTEM & REPEATER	MECHANICAL	STANDARDISATION
	11:20-11:40					
	11:40-12:00					
	12:00-13:00	LUNCH BREAK				
	13:00-14:00	Session 11: NewSpace2Connect – Reinventing the traditional space industry				
	14:00	Space2Connect 2021 closing				
	14:00-14:20			SMALL SATELLITES AND RECEIVER		STANDARDISATION
14:20-14:40						
14:40-15:00						
15:00-15:20						

## PLENARY SESSIONS

	Time	Session	description	Speaker	Title	Organisation
Day 1   11 October	14:00-14:10	<b>Welcome address</b>	speech	Josef Aschbacher	Director General	European Space Agency
	14:10-14:15	<b>Setting the scene of the S2C conference Strategic program orientation of TIA for CM22+ &amp; agenda 25</b>	speech	Elodie Viau	Director of Telecommunications & Integrated Applications	European Space Agency
	14:15-15:25	<b>Session 1: Innovative connectivity on Earth and beyond</b>	Panelists	Stephane Israel	CEO	Arianespace
				Luigi Pasquali	CEO	Telespazio
				David Parker	Director Human and Robotics Exploration	European Space Agency
				Steve Collar	CEO	SES
				Marco Fuchs	CEO	OHB
				Marc-Henri Serre	Vice-President Telecommunications Business	Thales Alenia Space
				Christian Knoerle	Head of Company Building	Porsche Digital
				François Gaullier	Head of Telecom and Navigation Systems	Airbus Defense and Space
Moderator	Peter de Selding	Journalist				

## PLENARY SESSIONS

	Time	Session	description	Speaker	Title	Organisation	
<b>Day 1   11 October</b>	15:30-16:25	<b>Session 2: Resilient connectivity for European Citizens</b>	Panelists	Catherine Kavada	Director for Space Development & Innovation EC Commission – DG DEFIS	European Commision	
				Elodie Viau	Director of Telecommunications & Integrated Applications	European Space Agency	
				Rodolphe Belmer	CEO	Eutelsat	
				Evert Dudok	Executive Vice President Connected Intelligence	Airbus Defense and Space	
				Pascal Rogiest	Chief European Institutions Officer	RHEA Group	
				Miguel Angel Garcia Primo	CEO	Hisdesat	
				Pascal Rogiest	Chief European Institutions Officer	RHEA Group	
				Uwe Kippnich	German Red Cross, Chair PSCE Users Committee	Red Cross	
			Moderator	Christopher Burns	Journalist		
	16:30-17:25	<b>Keynotes: Space role &amp; investment in economic recovery &amp; future market opportunities</b>	Keynote		Pacome Revillon	CEO	Euroconsult
					Greg Sadlier	Co-founder	Know.space
					Gianluca Dettori	Chairman	Partner Primo Ventures
					Gareth Keane	Investor	Promus Venture
					Moderator	Elia Montanari	Head of Management and Control

## PLENARY SESSIONS

	Time	Session	description	Speaker	Title	Organisation
<b>Day 1   11 October</b>	17:30- 18:25	<b>Session 3: Cloud Transformation, Artificial Intelligence and Digital Economy: how can space add value in this?</b>	Panelists	Nicolaus Hanowski	Head of the Mission Management and GS Department in the Earth Observation Directorate	European Space Agency
				Stella Guillen	CCO	IsarArospace
				Rafel Jorda Siquier	Founder and CEO	Open Cosmos
				Arne Gausepohl	Managing Director	OHB Digital
				Sylvain D'Hoine	Executive VP SPACE	CS Group SA
				Craig Brown	VP of Major Programmes	Satixfy
				Benoit Denis	Sr Economist Digital infrastructure	European Investment Bank
				Silver Lodi	CEO, Co-Founder	Spaceit
	Moderator	Cécilia Severi	Journalist			
18:25-18:30	<b>DAY 1 wrap up</b>	Speech	Elodie Viau	Director of Telecommunications & Integrated Applications	European Space Agency	

## PLENARY SESSIONS

	Time	Session	description	Speaker	Title	Organisation
<b>Day 2   12 October</b>	09:00-09:15	<b>Introduction of the day</b>	Speech	Elodie Viau	Director of Telecommunications & Integrated Applications	European Space Agency
	09:15-10:10	<b>Session 4: Space2Move: 5G/6G &amp; the Integration of Satcom in Future Networks</b>	Panelists	Peter Stuckmann	Head of Unit, Future Connectivity Systems	European Commision
				Stephane Anjuere	5G Venture Leader	Thales Alenia Space
				Daniela Petrovic	Co-Founder and Delivery Director	Darwin Innovation Group
				Antonio Arcidiacono	Director Technology & Innovation	European Broadcasting Union-EBU
				Francesco Rispoli	Chief Satellite Operations	Hitachi Rail
				Helmut Zaglauer	Architect Advanced Systems	Airbus Defence and Space
	Moderator	Aarti Holla Maini	Secretary General	EMEA Satellite Operators Association (ESOA)		

## PLENARY SESSIONS

Day 2   12 October	Time	Session	description	Speaker	Title	Organisation
	10:15-11:10	<b>Session 5: Space2Protect: Satcom for Safety and Security</b>	Panelists	Jacky Pouzet	Head of Communication and Frequency Coordination	Eurocontrol
				Marie Christine Bonnamour	General Secretary	Public Safety Communication Europe (PSCE)
				Philippe Glaesener	Senior Vice President, Global Government	SES
				Jean-Hubert Lenotte	Chief Strategy and Resources Officer	EUTELSAT
				Valentine Boissinot	Senior Programme Director	INMARSAT
				Alexandre Tisserant	Director	Kinéis Project
				Holger Lueschow	Programme Manager Satellite Communication & Project Officer Radio Spectrum	European Defense Agency
			Eric Morel de Westgaver	Director of European, Legal and International Matters	European Space Agency	
Moderator	Steve Bochinger	Chief Operating Officer	Euroconsult			

## PLENARY SESSIONS

	Time	Session	description	Speaker	Title	Organisation
Day 2   12 October	11:15-12:00	<b>Session 6: Light2Connect - Optical and Quantum future Communications</b>	Panelists	Rupert Ursin	Co-founder of QTLabs	QTLabs
				Antonio Abad	Chief Technical and Operations Officer	Hispasat
				Marc Steckling	CEO & Chairman of the board	TESAT
				Günther Hasinger	Director of Science	ESA
				Elisabetta Rugi Grond	CEO	Thales Alenia Space CH
				Norbert M.K. Lemke	Director Predevelopment, Space System Studies & Proposals	OHB
	Moderator	Ruth McAvinia	Journalist			
12:00-13:30	LUNCH BREAK					
13:30-14:00	<b>ESA Satcom Final Presentation Days 2021 Introductory presentations</b>	Introduction Speech	Elodie Viau	Director of Telecommunications & Integrated Applications	European Space Agency	
		ARTES Core Competitiveness	Dietmar Schmitt	Head of Technologies and Products Division	European Space Agency	
		ARTES Future Preparation	Andrew Murrell	Head of Future Telecom Programs Exploration Section	European Space Agency	



## PLENARY SESSIONS

	Time	Session	description	Speaker	Title	Organisation
Day 2   12 October	15:00-16:00	Session 7: Space for Green Value	Panelists	Franco Ongaro	Director of Technology, Engineering and Quality	European Space Agency
				Ivar Kruusenberg	CEO and Co-Founder	PowerUp Energy Technologies
				Thomas Sinn	CEO and Founder	Dcubed
				Andrea Canino	Head of Innovation Lab - Power Generation	Enel Green Power
				Ruben Flohr	ATM expert	SESAR
				Sylvie Sureda Perez	Senior Director, Datalink Solutions	INMARSAT
				Jamila Mendoza	Founder of Space Management and Institute council deputy leader	University of Stavanger
			Moderator	Cécilia Severi	Journalist	
	16:00-17:00	Session 8: Blending New Space Technologies and services	Panelists	Elodie Viau	Director of Telecommunication and integrated Application	European Space Agency
				Massimo Comparini	Deputy CEO ESVP Observation Exploration Navigation	Thales Alenia Space IT
				Massimiliano Ladovaz	Chief Technology Officer	Oneweb
				Tony Tolker Nielsen	Acting D/EOP	European Space Agency
				Philippe Pham	Space Systems - SVP Head of Earth Observation, Navigation & Science	Airbus
				Paul Verhoef	Director of Navigation	European Space Agency
Rainer Horn				Managing Partner	SpaceTec Partners	
Geraldine Naja			Acting Director of Commercialisation, Industry and Procurement	European Space Agency		
Moderator	Peter de Selding	Journalist				

## PLENARY SESSIONS

	Time	Session	description	Speaker	Title	Organisation
<b>Day 3   13 October</b>	12:00-13:00	LUNCH BREAK				
	13:00-14:00	<b>Session 9: Space2Ground – Integration of Ground and Space technologies</b>	Panelists	Stephen Brown	CTO	Satify
				Frederik Simoens	CTO	ST Engineering iDirect
				Enrique Fraga	Director of Satellite Control and Mission Planning	GMV
				Stephane Anjuere	Telecom BL - 5G Venture Leader	TAS-F
				Joel Grotz	Senior Manager, Adaptative Resource Control System Lead	SES
				Moderator	David Gomez Otero	Space Segment Engineer

## PLENARY SESSIONS

Time	Session	description	Speaker	Title	Organisation
09:30-12:00	<b>Session 10: Workshop - Digital Transformation &amp; Green Economy</b>	Digital Transformation and Green Economy at ESA. Challenges and Opportunities	Domenico Mignolo	Head of Ground Segment Section	European Space Agency
			Rita Rinaldo	Head of Downstream Business Applications	European Space Agency
		Digitalisation: ESA experience, trends, and opportunities	Javier de Pablos	Ground Segment Engineer	European Space Agency
		Artificial Intelligence	Roy Dalton	Director of Consulting Services	CGI UK
		Virtualisation	Geert Adams	VP R&D Programs	ST Engineering iDirect
		Cloudification	Markus Eslitzbichler	Product Manager	Kratos Norway
		Digital Twins	Erenoglu Ugur	Global Head of Go-to-Market Cloud & Edge Computing	Vodafone
		Sustainable mobility and green value: ESA experience, trends, and opportunities	Davide Coppola	Applications Engineer	European Space Agency
		Sustainable mobility	Giovanni Coppola	Investments Program Manager	ENEL X
		Sustainable mobility	Debora Marullo	Secretariat Staff/EU Projects/ Innovation Dpt Coordinator	Port Network Authority of the Ionian Sea - Port of Taranto
		Green Value	Piero Pelizzaro	Chief Resilience Officer	City of Milan
		Green Value	Cheryl Hicks	Senior Advisor	UNGC
12:00-13:00	LUNCH BREAK				

Day 4 | 14 October

## PLENARY SESSIONS

	Time	Session	description	Speaker	Title	Organisation
<b>Day 4   14 October</b>	13:00-14:00	<b>Session 11: NewSpace2Connect – Reinventing the traditional space industry</b>	Panelists	Peter Platzter	CEO	Spire
				Aleix Megias	VP Operations	Open Cosmos
				Doug Liddle	CEO	In-Space Missions Limited
				Luis Gomes	CEO	AAC Clyde Space UK
				Mina Mitry	CEO	Kepler Communications
				Maurizio Vanotti	VP Infrastructure and Partnership	OneWeb
			Moderator	Khalil Kably	Sunrise Project Manager	European Space Agency
	14:00	<b>Space2Connect 2021 Closing</b>	Closing Speech	Elodie Viau	Director of Telecommunications & Integrated Applications	European Space Agency

## PARALLEL SESSIONS

### Room: "GROUND"

Day 2 | 12 October

TIME	CATEGORY	ORGANISATION	TITLE
14:00-14:20	ANTENNA & RF	ATTISAT SA	DEVELOPMENT OF A LOW PROFILE, DUAL POLARIZATION, TX/RX, PLANAR ANTENNA, OPERATING IN KU BAND
14:20-14:40		PROGETTI SPECIALI ITALIANI	AERONAUTICAL ANTENNA FOR DUAL BAND INCLUDING L-BAND AMS(R)S AND OTHER EXISTING AIRCRAFT APPLICATIONS
14:40-15:00		VIASAT ANTENNA SYSTEMS SA	HYBRID ELECTRO-MECHANICAL SCANNING SATELLITE USER TERMINAL ANTENNA
15:00-15:20			
15:20-15:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	GROUND SEGMENT ANTENNAS
15:40-16:00	ANTENNA & RF	SATIXFY UK LTD	RFIC CHIP AND PAA DEMONSTRATOR FOR PHASED ARRAY ANTENNAS
16:00-16:20		SATIXFY UK LTD	IOT VSAT SYSTEM
16:20-16:40		INFORMATION TECHNOLOGIES SERVICES SRL	HIGH POWER Q/V-BAND DIPLEXERS FOR GROUND STATIONS
16:40-17:00		TNO	LOW COST SATELLITE M2M FRONT-END

PARALLEL SESSIONS

Room: "PAYLOAD"

Day 2 | 12 October

TIME	CATEGORY	ORGANISATION	TITLE
14:00-14:20	ANTENNA	AIRBUS DEFENCE AND SPACE SAS	ENHANCED ACTIVE RX ANTENNA SYSTEM
14:20-14:40		AIRBUS ITALIA S.P.A	HIGHLY INTEGRATED MULTIPLE BEAM FORMING NETWORKS FOR KA-BAND PLANAR ARRAY ANTENNAS
14:40-15:00		AIRBUS ITALIA S.P.A	ARRAY FED REFLECTOR ANTENNA FOR NON-REGULAR BEAM-SIZE COVERAGE
15:00-15:20		MACDONALD, DETTWILER AND ASSOCIATES CORPORATION	LEO CONSTELLATION ADVANCED DIRECT RADIATING ARRAY (DRA) RISK REDUCTION TECHNOLOGY DEVELOPMENT
15:20-15:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	PAYLOAD ANTENNAS
15:40-16:00	ANTENNA	MICROWAVE VISION ITALY	MEASUREMENT METHODOLOGY FOR FAST ANTENNA TESTING
16:00-16:20		SENER	BROADBAND AND COMPACT KU-BAND GLOBAL ANTENNAS (HORN & OMT)
16:20-16:40		SWISSTO12 SA	ARRAY ANTENNA GENERATING MULTIPLE FIXED WIDE BEAMS FOR LOW EARTH ORBIT (LEO) APPLICATIONS
16:40-17:00		TICRA	REFLECT ARRAY FOR MEDIUM SIZE APERTURES

PARALLEL SESSIONS

Room: "PLATFORM"

Day 2 | 12 October

TIME	CATEGORY	ORGANISATION	TITLE
14:00-14:20	PROPULSION	MARS SPACE LIMITED	XENON VERY HIGH TEMPERATURE RESISTOJET (VHTR) TECHNOLOGY
14:20-14:40		EURO HEAT PIPES SA	PROPULSION DEPLOYABLE AND POINTING SYSTEM (P-DPS)
14:40-15:00			
15:00-15:20		THALES ALENIA SPACE BELGIUM	HIGH POWER HIGH VOLTAGE TRANSFORMER FOR ELECTRIC PROPULSION
15:20-15:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	PROPULSION - CURRENT & FUTURE TRENDS

PARALLEL SESSIONS

Room: "SYSTEM & FUTURE PREPARATION"

Day 2 | 12 October

TIME	CATEGORY	ORGANISATION	TITLE
14:00-14:20	NEXT GENERATION SATCOM SYSTEMS	THALES ALENIA SPACE FRANCE	NEXT GENERATION HIGH DATA RATE TRUNKING SYSTEMS
14:20-14:40		INDRA SISTEMAS	MITIGATION TECHNIQUES FOR ADDRESSING THE IMPACT OF LATENCY ON SERVICES OVER SATELLITE NETWORKS
14:40-15:00		THALES ALENIA SPACE FRANCE	HIGHLY DISTRIBUTED SMALL GATEWAY ARCHITECTURES FOR VHTS APPLICATIONS
15:00-15:20		SURREY SATELLITE TECHNOLOGY LIMITED	VERY SMALL GEOSTATIONARY SPACECRAFT FOR TELECOMMUNICATION APPLICATIONS
15:20-15:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	UNEXPECTED TECHNOLOGIES FOR SATCOM
15:40-16:00	NEXT GENERATION SATCOM SYSTEMS	FRAUNHOFER GESELLSCHAFT	REALISING FUTURE LOW COST AND LARGE SCALE M2M SATELLITE NETWORKS
16:00-16:20		INDRA SISTEMAS	COST BENEFIT ANALYSIS OF THE USE OF SATELLITE IN THE EVOLUTION OF AIR TRAFFIC MANAGEMENT INFRASTRUCTURE
16:20-16:40		TAS UK	VERY LOW EARTH ORBITS FOR SATELLITE COMMUNICATIONS
16:40-17:00		ADS	IN ORBIT SERVICING, ASSEMBLY, AND MANUFACTURE OPPORTUNITIES FOR TELECOM MISSIONS



## PARALLEL SESSIONS

Room: "GROUND"

Day 3 | 13 October

TIME	CATEGORY	ORGANISATION	TITLE
09:00-09:20	MANAGEMENT & CONTROL	TERMA	MEGACONSTELLATION SATELLITE CONTROL SYSTEM
09:20-09:40		ATOS IT SOLUTIONS & SERVICES	SIECAMS ILS VSAT
09:40-10:00			
10:00-10:20		GMV AEROSPACE AND DEFENCE	FLEETCC: FLEET OPERATIONS GROUND SEGMENT COMMAND AND CONTROL SOFTWARE SYSTEM
10:20-10:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	MANAGEMENT & CONTROL
10:40-11:00	NETWORKS	CGI	PRELIMINARY DESIGN OF A EUROPEAN SECURE SATCOM POOLING & SHARING SYSTEM FOR GLOBAL MARKETS
11:00-11:20		RHEA SYSTEM S.A.	CYBER SECURITY CENTRE OF EXCELLENCE (CSCE)
11:20-11:40		LIVEWIRE DIGITAL	SMART NETWORKING
11:40-12:00		IABG MBH	MOBILE AD HOC NETWORKS (MANETS) WITH SATELLITE ACCESS FOR PUBLIC SAFETY OPERATIONS
12:00-13:00	LUNCH BREAK		

**PARALLEL SESSIONS**

**Room: "GROUND"**

**Day 3 | 13 October**

TIME	CATEGORY	ORGANISATION	TITLE
14:00-14:20	NETWORKS	NITEL	IMPLEMENTATION OF VIRTUALISED NETWORK FUNCTIONS (VNFS) FOR BROADBAND SATELLITE NETWORKS
14:20-14:40		ST ENGINEERING IDIRECT (EUROPE)	CALVERA
14:40-15:00		ST ENGINEERING IDIRECT (EUROPE)	WIND-SEQUEL
15:00-15:20		ST ENGINEERING IDIRECT (EUROPE)	MX-SAT
15:20-15:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	HUB & MODEM
15:40-16:00	HUB & MODEM	TNO	TERABIT OPTICAL FEEDER LINK
16:00-16:20			
16:20-16:40		AIRBUS ITALIA S.P.A	GATEWAY DEMONSTRATOR FOR MACHINE-TO MACHINE (M2M) APPLICATIONS
16:40-17:00		WIDENORTH	HIGH-END SOFTWARE DEFINED RADIO

## PARALLEL SESSIONS

Room: "PAYLOAD"

Day 3 | 13 October

TIME	CATEGORY	ORGANISATION	TITLE
09:00-09:20	REPEATER	AIRBUS DEFENCE & SPACE	FLEXIBLE AND HIGH EFFICIENCY LINEARISED SSPA IN C-BAND
09:20-09:40		ANTWERP SPACE	LEO DATA RELAY MODEM
09:40-10:00		COBHAM CHELTON TELECOM & MICROWAVETRADIN	VERY COMPACT INPUT MULTIPLEXER FOR BROADBAND APPLICATIONS
10:00-10:20		DAS PHOTONICS	OPTICAL RF DISTRIBUTION FLIGHT DEMONSTRATOR
10:20-10:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	RF PAYLOAD TRENDS
10:40-11:00	REPEATER	HONEYWELL	Q/V BAND HIGH POWER DEVICES
11:00-11:20		IMST	HIGH LINEARITY GALLIUM NITRIDE (GAN) MIXER
11:20-11:40		KONGSBERG DEFENCE AND AEROSPACE AS	KA-IF AND IF-KA CONVERTERS
11:40-12:00		KONGSBERG DEFENCE AND AEROSPACE AS	HIGH PERFORMANCE SURFACE ACOUSTIC WAVE FILTERS
12:00-13:00	LUNCH BREAK		

## PARALLEL SESSIONS

### Room: "PAYLOAD"

Day 3 | 13 October

TIME	CATEGORY	ORGANISATION	TITLE
14:00-14:20	REPEATER	MAGICS	A RAD-HARD ALL-DIGITAL FREQUENCY SYNTHESIZER
14:20-14:40			
14:40-15:00		MPB-CANADA	HIGH POWER 1064NM OPTICAL AMPLIFIER
15:00-15:20		OROLIA SWITZERLAND AS	MINIATURE FREQUENCY REFERENCE WITH VERY LOW DRIFT
15:20-15:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	AN OVERVIEW OF ADDITIVE MANUFACTURING FOR RF COMPONENTS IN SPACE APPLICATIONS
15:40-16:00	REPEATER	RAKON	MINI SPACE OVEN CONTROLLED CRYSTAL OSCILLATOR (OCXO)
16:00-16:20		RUAG SPACE AB	KA/Q-BAND UPCONVERTER
16:20-16:40			
16:40-17:00		SWISSTO12 SA	MINIATURISED KA-BAND BEAMFORMING NETWORK USING ADDITIVE MANUFACTURING TECHNIQUES

## PARALLEL SESSIONS

Room: "PLATFORM"

Day 3 | 13 October

TIME	CATEGORY	ORGANISATION	TITLE		
09:00-09:20	POWER	ALMATECH SA	ENERGY STORAGE PACKAGING OPTIMISATION		
09:20-09:40					
09:40-10:00				AIRBUS DEFENCE & SPACE NETHERLANDS (FORMER DUTCH SPACE)	ARA MK4
10:00-10:20					
10:20-10:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	SOLAR ARRAYS FOR TELECOM SATELLITES		
10:40-11:00	POWER	WALOPT	FEASIBILITY STUDY AND PRE-TEST OF A LOW COST CONCENTRATOR SOLAR ARRAY		
11:00-11:20					
11:20-11:40				RINA CONSULTING SPA	EFFECTIVE COATING FOR NEXT GENERATION SOLAR CELLS
11:40-12:00				ANTWERP SPACE	ON-BOARD SIGNAL PROCESSING PLATFORM
12:00-13:00	LUNCH BREAK				

PARALLEL SESSIONS

Room: "PLATFORM"

Day 3 | 13 October

TIME	CATEGORY	ORGANISATION	TITLE
14:00-14:20	SYSTEMS & ARCHITECTURE	THALES ALENIA SPACE ESPANA	DEVELOPING AND QUALIFICATION OF HILINK
14:20-14:40			
14:40-15:00	COMMAND & DATA HANDLING	THALES ALENIA SPACE ITALIA SPA	LOW COST GNSS RECEIVER FOR GEOSTATIONARY TELECOM SATELLITES
15:00-15:20		CZECH TECHNICAL UNIVERSITY IN PRAGUE	MINIATURISED RADIATION MONITOR
15:20-15:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	SMALLSAT PLATFORMS FOR TELECOMS - CURRENT & FUTURE TRENDS
15:40-16:00	THERMAL SYSTEM	AIRBUS DEFENCE & SPACE	ON-BOARD GUIDANCE OPTIMISATION FOR ELECTRIC PROPULSION ORBIT RAISING
16:00-16:20		ENGINEERING SERVICES	INNOVATIVE TECHNOLOGIES FOR MISSIONS
16:20-16:40	AOCS	NLR - THE NETHERLANDS AEROSPACE CENTRE	HEAT-CONTROLLED ACCUMULATOR (HCA) FOR MECHANICALLY PUMPED LOOP
16:40-17:00		ASTRO UND FEINWERKTECHNIK GMBH	IMPROVED TORQUE STABILITY OF REACTION WHEELS VIA EMBEDDED DIGITAL WHEEL SPEED CONTROL

## PARALLEL SESSIONS

### Room: "SYSTEM & FUTURE PREPARATION"

Day 3 | 13 October

TIME	CATEGORY	ORGANISATION	TITLE
09:00-09:20	NEXT GENERATION SATCOM SYSTEMS	GMV AEROSPACE AND DEFENCE, SA	ACTIVE DEBRIS RECOVERY SYSTEM FOR LEO COMMUNICATIONS MISSIONS
09:20-09:40		OHB-DE	MULTI-SERVICE MISSION OPPORTUNITIES
09:40-10:00		European Space Agency	DIRECT ACCESS TO HANDHELD DEVICES
10:00-10:20		AC SATCOM (DK)	DEVELOPMENT OF LEGO-COMPATIBLE SATELLITE IOT MODEM
10:20-10:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	5G/6G
10:40-11:00	INTEGRATION WITH TERRESTRIAL SYSTEMS AND ADVANCED TECHNOLOGIES	European Space Agency	SPACE FOR 5G
11:00-11:20		THALES ALENIA SPACE FRANCE	TOPOLOGIES, ARCHITECTURES, BUSINESS MODELS, AND OPERATIONAL CONCEPTS FOR FUTURE VIRTUAL NETWORK OPERATIONS
11:20-11:40		EURESCOM GMBH	EDGE NETWORK COMPUTING CAPABILITIES FOR SATELLITE REMOTE TERMINALS
11:40-12:00		PROGETTI SPECIALI ITALIANI	PROTOTYPE FOR A COMMAND AND CONTROL DATA LINK FOR UAV'S IN THE 5 GHZ BAND
12:00-13:00	LUNCH BREAK		

## PARALLEL SESSIONS

### Room: "SYSTEM & FUTURE PREPARATION"

Day 3 | 13 October

TIME	CATEGORY	ORGANISATION	TITLE
14:00-14:20	ADVANCED TECHNOLOGIES	THALES ALENIA SPACE FRANCE	INNOVATIVE FRACTIONATED SATELLITE SYSTEM ENABLING HIGHER REUSE OF FREQUENCY (MATRIX)
14:20-14:40		SES TECHCOM	HIGH THROUGHPUT DIGITAL BROADCASTING SATELLITE SYSTEMS
14:40-15:00		ANTWERP SPACE	VERIFICATION CAMPAIGN OF THE DVB CARRIER-ID DETECTION AND DEMODULATION
15:00-15:20		ANSUR	NETWORK CODING PROTOCOLS FOR SATELLITE TERMINALS WITH MULTIPLE LOGICAL PATH
15:20-15:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	EVOLUTION AND IMPACT OF AI IN SATCOM SYSTEMS
15:40-16:00	STRATEGY RESEARCH	TAS ITALY	OPPORTUNITIES FOR SATCOM IN THE CURRENT CYBER-SECURITY ENVIRONMENT
16:00-16:20		JOANNEUM RESEARCH FORSCHUNGSGESELLSCHAFT	MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE FOR SATELLITE COMMUNICATIONS
16:20-16:40		GMV AEROSPACE AND DEFENCE, SA	MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE FOR SATELLITE COMMUNICATIONS
16:40-17:00		EURESCOM GMBH	LEVERAGING BIG DATA CONCEPTS IN FUTURE SATCOM NETWORKS



## PARALLEL SESSIONS

Room: "GROUND"

Day 4 | 14 October

TIME	CATEGORY	ORGANISATION	TITLE
09:00-09:20	HUB & MODEM	FRAUNHOFER GESELLSCHAFT	ENERGY EFFICIENT USER TERMINALS FOR MASSIVE UNCOORDINATED ACCESS VIA SATELLITE
09:20-09:40		HONEYWELL INTERNATIONAL	ASPIRE 400 COMPLETE COCKPIT SOLUTION
09:40-10:00		DIGIMIMIC	BROADBAND SIGE IQ-MODULATOR
10:00-10:20		SPACE ANALYSES	SATCOM WEATHER 2
12:00-13:00	LUNCH BREAK		

**PARALLEL SESSIONS**

**Room: "PAYLOAD"**

**Day 4 | 14 October**

TIME	CATEGORY	ORGANISATION	TITLE
09:00-09:20	REPEATER	TESAT-SPACECOM GMBH & CO.KG	ENHANCEMENT OF TESATS LASER COMMUNICATION TERMINAL (LCT)
09:20-09:40		TESAT-SPACECOM GMBH & CO.KG	TECHNOLOGY DEVELOPMENT FOR Q-BAND LINEARIZERS
09:40-10:00		THALES ALENIA SPACE FRANCE	SSPAS WITH EUROPEAN GAN DEVICES
10:00-10:20		THALES ALENIA SPACE FRANCE	CONVERSION CHAINS ON BOARD
10:20-10:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	SMALL SATELLITES
10:40-11:00	SYSTEM & REPEATER	THALES ALENIA SPACE ITALIA SPA	KALOS-DEVAQ (DEMONSTRATOR OF V AND Q BAND REPEATERS)
11:00-11:20		SENER AEROSPACE	COMPACT SOLUTIONS FOR THE KA BAND INPUT RECEIVE SECTION
11:20-11:40		SES TECHCOM	GHOST: ON-GROUND ENHANCED NON-INTRUSIVE IOT SYSTEM PROTOTYPING
11:40-12:00		THALES ALENIA SPACE FRANCE	DIGITAL TRANSPARENT PROCESSOR - 5TH GENERATION
12:00-13:00	LUNCH BREAK		

PARALLEL SESSIONS

Room: "PAYLOAD"

Day 4 | 14 October

TIME	CATEGORY	ORGANISATION	TITLE
14:00-14:20	SMALL SATELLITES AND RECEIVER	ANTWERP SPACE N.V.	KA-BAND LEO-LEO ISL FOR SMALL SATELLITES
14:20-14:40			
14:40-15:00		TNO	DEVELOPMENT OF A LIGHT-WEIGHT OPTICAL TERMINAL FOR SMALL SATELLITES
15:00-15:20			

## PARALLEL SESSIONS

Room: "PLATFORM"

Day 4 | 14 October

TIME	CATEGORY	ORGANISATION	TITLE
09:00-09:20	MECHANICAL	AEROSPACE AND ADVANCED COMPOSITES GMBH	HARMONIC DRIVE GEARS FOR SPACE APPLICATIONS
09:20-09:40		SPINWORKS	REUSABLE AND NON EXPLOSIVE ACTUATOR FOR HOLD DOWN AND RELEASE MECHANISMS
09:40-10:00		CHP CONSULT SPRL	SHAPE-MEMORY COUPLING FOR CONNECTING PIPES
10:00-10:20		CENTRO ITALIANO RICERCHE AEROSPAZIALI	CFRP GRID TUBULAR STRUCTURES
10:20-10:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	ON-ORBIT MANUFACTURING, ASSEMBLY AND RECYCLE FOR TELECOMS
10:40-11:00	MECHANICAL	AEROSPACE AND ADVANCED COMPOSITES GMBH	DEVELOPMENT OF EUROPEAN SELF-LUBRICATING MATERIALS
11:00-11:20		AIRBUS DEFENCE & SPACE NL	NON-EXPLOSIVE, LOW SHOCK (NELS) HOLD DOWN AND RELEASE MECHANISMS
11:20-11:40		SPACE-LOCK GMBH	MONO-CLAMP TECHNOLOGY FOR RELEASE ACTUATORS
11:40-12:00		SPACE-LOCK GMBH	SPACE-LOCK LOW-SHOCK RELEASE ACTUATOR
12:00-13:00	LUNCH BREAK		

## PARALLEL SESSIONS

### Room: "SYSTEM & FUTURE PREPARATION"

Day 4 | 14 October

TIME	CATEGORY	ORGANISATION	TITLE
09:00-09:20	STRATEGY RESEARCH	SATSEARCH	SURVEY OF THE CAPABILITIES AND DEVELOPMENT OF THE INDIAN SATCOM SECTOR
09:20-09:40		LIBRE SPACE FOUNDATION	THE APPLICATION OF OPEN SOURCE DEVELOPMENT METHODOLOGIES TO SATCOM SYSTEMS
09:40-10:00		UNIVERSITY OF ABERDEEN	APPLYING THE QUIC PROTOCOL FOR FUTURE INTERNET SATCOM TRAFFIC
10:00-10:20		European Space Agency	GEO ORBITAL DEBRIS THREAT ASSESSMENT
10:20-10:40	COFFEE BREAK – ELEVATOR PITCH	EUROPEAN SPACE AGENCY	STANDARDISATION
10:40-11:00	STANDARDISATION	LS TELECOM	KEY OUTCOMES OF WRC-2019 AND AGENDA ITEMS FOR THE NEXT CONFERENCE - PART 1
11:00-11:20		LS TELECOM	KEY OUTCOMES OF WRC-2019 AND AGENDA ITEMS FOR THE NEXT CONFERENCE - PART 2
11:20-11:40		European Space Agency	THE USE OF TERRESTRIAL AIR INTERFACES FOR LOW DATA RATE SATELLITE NETWORKS
11:40-12:00		TAS-F	ADVOCATING FOR SATELLITE IN THE 5G STANDARDISATION PROCESS - PROGRESS TO DATE AND NEXT STEPS
12:00-13:00	LUNCH BREAK		

PARALLEL SESSIONS

Room: "SYSTEM & FUTURE PREPARATION"

Day 4 | 14 October

TIME	CATEGORY	ORGANISATION	TITLE
14:00-14:20	STANDARDISATION	CENTRE TECNOLÒGIC DE TELECOMUNICACI	SATELLITE NETWORK OF EXPERTS IV (SATNEX IV)
14:20-14:40		IMEC	COLLABORATIVE AND DYNAMIC APPROACHES TO INCREASING SPECTRUM UTILISATION
14:40-15:00			
15:00-15:20		JOANNEUM RESEARCH	REFERENCE PROCEDURE FOR ADOPTION OF SOFTWARE TOOLS AND DIGITAL PRODUCTS AS ITU-R RECOMMENDATIONS