

	DAY 1 : March 17th, 2021 SPACE DEMOCRATIZATION	
9h00	<p style="text-align: center;">PLENARY SESSION</p> <p style="text-align: center;">CONFERENCE INTRODUCTION Louis LE PORTZ, 3AF Chairman, Giorgio SACCOCIA, Dominique RIBEREAU, Guillermo ORTEGA, Co-Chairs of the conference</p>	EXHIBITION and NETWORKING
9h20	<p style="text-align: center;">Plenary Round Table #1 : AGENCIES MID AND LONG TERM POLICIES</p> <p style="color: #C8E6C9;">Joseph ASHBAHER, ESA, Jean -Yves LE GALL, CNES, Walter PELZER, DLR, Christian HAUGLIE-HANSEN, Norwegian Space Agency, Graham TURNOCK, UKSA, Kailasavadivoo SIVAN, ISRO, Hitoshi KUNINAKA, JAXA, Giorgio SACCOCIA, ASI</p> <p style="text-align: center; color: #C8E6C9;">Chair : Chiara MANFLETTI, ESA</p>	EXHIBITION and NETWORKING
10h50	<p style="text-align: center;">COFFEE BREAK</p>	EXHIBITION and NETWORKING
11h10	<p style="text-align: center;">Plenary Round Table #2 : PRIMES AND OPERATORS VS SUPPLIERS FOR SPACE TRANSPORTATION and SPACECRAFT</p> <p style="color: #C8E6C9;">Tommaso MISURI, SITAEI, Christina JETZSCHMANN, Airbus Defence and Space GmbH, Onno VERBENE, NAMMO, V. NARAYANAN, LPSC/ISRO, Hervé GILBERT, ArianeGroup, Guy PEREZ, OHB, Patrick VAN PUT, Bradford and ECAPS, Eric KRUCH, SES</p> <p style="text-align: center; color: #C8E6C9;">Chairs : Dominique RIBEREAU, ArianeGroup, Jamila MANSOURI, ESA</p>	EXHIBITION and NETWORKING
12:40	<p style="text-align: center;">LUNCH BREAK</p>	EXHIBITION and NETWORKING

	PARALLEL SESSIONS							EXHIBITION and NETWORKING
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	
CHAIR 1	SESSION 08 - ST Programs Gérard ORDONNEAU, ONERA, FR	SESSION 09 - ST Aerospike Nozzles Ulf PALMNÄS, SE	SESSION 10 - SC Cubesat Propulsion Systems 2 Alberto GARBAYO, AVS - UK, UK	SESSION 11 - SC Electric Propulsion 2 Michele COLETTI, Thales Alenia Space, UK	SESSION 12 - SC Modeling and Simulation 2 Louis WALPOT (ESA)	SESSION 13 - SC Fluid Systems 1 Markus PEUKERT, OHB, DE	SESSION 14 - SC Chemical Thrusters 2 Gilles VIGIER, 3AF, FR	
CHAIR 2	Johan STEELANT (ESA)	Mark FORD (ESA)	Kathe DANNEMEYER (ESA)	Davina DI CARA (ESA)	Bayrem ZITOUNI, OHB, DE	Richard SCHWANE (ESA)	Chris HUNTER (ESA)	
16:40	1 00488 - Technology-driven Selection and Design for future Korean Launch Systems Daeban Seo KARI - KR	00403 - Research Activities in the Development of DemoP1: a LOX/LNG Aerospike Engine Demonstrator Federico Rossi Pangea Aerospace - ES	00082 - Investigation of Thermal Behaviour of Additively Manufactured Green Bi-Propellant Thrusters in CubeSat Applications Using Transient Thermal Modelling Peter Van Den Berg Delft University of Technology - NL	00150 - Performance characterisation of the Water Electrolysis Hall Effect Thruster (WET-HET) using direct thrust measurements Alexander Schwertheim Imperial College London - UK	00411 - OpenPlume for EP and CP plume modelling: tool developments status Bayrem Zitouni OHB - DE	00020 - Innovative Xenon/Krypton FMS (Feed Management System) for Electric Propulsion, from R&D to serial production. Pierre Cordesse Air Liquide - FR	00045 - An Overview of the Medium and High Altitude Space Propulsion Test Facilities in Westcott Matthew Palmer Nammo - GB	
17:00	2 00587 - Innovations in Propulsion within ESA's Future Launcher Preparatory Programme (FLPP) Advanced Technology Kate Underhill ESA - NL	00406 - Investigation of aerodynamic thrust-vector control for aerospike nozzles in cold-gas experiments Jan Sieder-Katzmann Technische Universität Dresden - DE	00504 - Study of Plume Impingement on CubeSat Structure and Solar Array by Different Propellants Harshit Saini SRM Institute of Science and Technology - IN	00254 - Design of an experimental ablative pulsed plasma thruster for micropropulsion Scherezade Barquero Universidad Carlos III de Madrid - UC3M - ES	00424 - Plasma brake deorbiting simulation using dynamic space environment Pyry Peitso Aurora Propulsion Technologies - FI	00275 - The Development of Highly Efficient Miniaturised Proportional Valves Based on Piezoelectric PZT Actuators Charles Opoku The Open University - UK	00339 - Overview of Spacecraft Propulsion Activities in Thales Alenia Space in the UK Mark Pollard Thales Alenia Space UK - UK	
17:20	3 00330 - VINCI Ignition system qualification and Flight production and successors Rudi Matthijssen Aerospace Propulsion Products BV - NL	00480 - ACTIVE - Optimisation of a fluidic thrust vector control on aerospike nozzles Martin Propst Technische Universität Dresden - DE	00226 - Experimental Study on Micropropulsion Using Dust Explosion of Aluminum/Magnesium with Water Vapor Masaya Murohara The University of Tokyo - JP	00247 - Design, Set-Up, and First Ignition of the RF Helicon-based Plasma Thruster: Concepts, Parameter Study and Initial Test Results Francesco Romano University of Stuttgart - DE	00582 - Design of a Hollow Cathode Thruster: Concepts, Parameter Study and Initial Test Results Norman Gondol Technische Universität Dresden - DE	00418 - Investigation of hysteresis on propellant flow rate for 10 cm class microwave ion thruster Yusuke Yamashita JAXA - JP	00576 - Fusion energy based space propulsion using a compact spherical tokamak Adam Baker Rocket Engineering Ltd - GB	
17:40	4 00222 - Overview of rocket testing at the Westcott test facility (2018/2019) Edward Moore Airborne Engineering - GB	00340 - Design and evaluation of aerospike nozzles for upper stage Francesco Nasuti Sapienza University of Rome - IT	00212 - Propulsive Performance Analysis of Energetic Ionic Liquid Mono-Propulsion Systems for Micro-Spacecrafts Asato Wada JAXA - JP	00467 - Serial Production of Space Components for Megaconstellations Nils Hildebrand AST Advanced Space Technologies GmbH - DE	00391 - Characterization of a 5kW-class hall thruster via 2D hybrid simulations Jesús Perales-Díaz Universidad Carlos III de Madrid - UC3M - ES	00318 - Ongoing Development of next generation Electric Propulsion Fluid Management Systems Johan Kuiper Bradford Engineering - NL	00049 - Development of a Chemical Thrusters Plume Contamination Module in the frame of the Plume Impingement Tool "PITOT" Andrea Binci Thales Alenia Space - IT	
18:00	5 00214 - ENPULSION Nano: A fully integrated electric propulsion system for Small Satellites David Krejci Enpulsion - AT					00583 - Electrostatic Pump Development for micro Liquid Pulsed Plasma Thrusters Cristian Dobranszki University of Southampton - UK		
18:20	END OF DAY 1							

	DAY 2 : March 18th, 2021 NEW BUSINESS, NEW MARKETS							EXHIBITION and NETWORKING	
	PLENARY SESSION								
9h00	Plenary Round Table #3 : European Micro Launchers and Space ports Part 1 : Challenges for European Micro launchers, Part 2 : Challenges for European Space ports Chairs : Thilo KRANZ, ESA, Jérôme BRETEAU, ESA, Ulf PALMNÄS, Palmnäs & Co								
10h40	COFFEE BREAK								
	PARALLEL SESSIONS								
CHAIR 1	Room 1 SESSION 15 - ST Engine control Gérard ORDONNEAU, ONERA, FR	Room 2 SESSION 16 - ST Combustion chamber 1 & Ignition Didier BOURY, ArianeGroup, FR	Room 3 SESSION 17 - SC Cubesat Propulsion Systems 3 Alberto GARBAYO, AVS - UK, UK	Room 4 SESSION 18 - SC Electric Propulsion 3 Olivier DUCHEMIN, SAFRAN SEP	Room 5 SESSION 19 - SC Modeling and Simulation 3 Toru SHIMADA, JAXA, JAP	Room 6 SESSION 20 - SC Fluid Systems 2 Markus PEUKERT, OHB, DE	Room 7 SESSION 21 - SC Chemical Thrusters 3 Kate UNDERHILL (ESA)		
	Mark FORD (ESA)	Carlos MUÑOZ (ESA)	Armin HERBERTZ (ESA)	Neil WALLACE (ESA)	Nicola KUTUFA (ESA)	Luca FERRACINA (ESA)	Kenichi KIMOTO, IHI, JP		
11:00 1	00236 - VEGA-E Upper Stage Engine Control Unit with closed-loop control for M10 engine Nicole Segala GMV-AD - ES	00043 - Low Order Modeling of High-Frequency Combustion Instabilities in Liquid Rocket Engines Alexandre Fougne EM2C - FR	00234 - The concept and development status of new green propellant propulsion system named "Pinot-G" Naoki Morita IHI Aerospace - JP	00109 - REGULUS: integration and testing of an iodine electric propulsion system Mirko Magarotto University of Padova - IT	00385 - The study on the performances of the micro cathode arc thruster with different cathode materials Jinyue Geng Beijing Institute of Control Engineering - JP	00208 - European Electronic Pressure Regulator - Engineering Model Test Results Nicholas Solway Nammo - GB	00038 - Estimation of thrust performance from the experimental results of the combustion of magnesium wires in water vapor Mariko Akiyama The University of Tokyo - JP		
	00477 - Electrical Regulating Valve for Rocket Propulsion Systems Matthias Günther ArianeGroup - DE	00325 - LES simulation for evaluation of acoustic response of subcritical coaxial flame submitted to high-frequency acoustic fields Aurélie Nicole ONERA - FR	00057 - Experimental Investigation and in-flight Characterization of Micronewton Ultra-Precision and Low Noise Proportional Propulsion Technology Xuhui Liu Beijing Institute of Control Engineering - JP	00085 - New EPIC findings: Impact of Mission Total Impulse on Technology Selection & Prerequisites for Lifetime Qualification via Analysis Birk Wollenhaupt OHB System AG - DE	00273 - Simulation-guided engineering of an air-breathing thruster concept Krystof Mrozek PlasmaSolve s.r.o. - CZ	00465 - Experimental studies on Pressure Regulator for failure mode J. Nithya Bharathi Liquid Propulsion Systems Centre - ISRO - IN	00573 - Flow Analysis of a Supersonic Nozzle by means of Quantitative Schlieren Emilia-Georgiana Prisacariu Romanian Research and Development Institute for Gas Turbines - COMOTI - RO		
11:20 2	00533 - Nonlinear Control of an Expander-Bleed Rocket Engine using Reinforcement Learning Kai Dresia DLR - German Aerospace Center - DE	00078 - Numerical characterization of the acoustic damping in a cold flow experiment with coupled cavities David Marchal CentraleSupélec - FR	00287 - Development of a cubesat green propellant tank with fine CoG control Michel Poucet LIFT ME OFF - UK	00203 - Electric propulsion alternatives selection to interplanetary missions Olga Starinova Samara National Research University - RU	00047 - Use of numerical modelling to assess the influence of the electrostatic configuration on the electric field in an electrospray thruster Mobin Yunus Malik The University of Manchester - UK	00468 - Flow simulation studies on Pressure Regulator for Lunar Lander Module J. Nithya Bharathi Liquid Propulsion Systems Centre - ISRO - IN	00523 - Delta Qualification of a Normally Closed Valve with Shape Memory Alloy Actuator for Hydrazine applications Pilar Valles ArianeGroup - DE		
	00496 - On-Ground and In-Flight evaluation of a Redundant Control Electronics for Variable Thrust Liquid Engine in Soft-Landing mission Kiran Ravikumar Liquid Propulsion Systems Centre - ISRO - IN	00238 - Investigation of Laser Ignition Systems in LOX/Methane Thrust Chambers Sebastian Soller ArianeGroup - DE	00207 - 0.5N Thruster for Small Satellite Propulsion System Using HAN/HN-Based "Safe" Green Monopropellant HNP225 Shinji Igarashi IHI Aerospace - JP	00353 - Mission-driven selection of the propulsion system for INNOSAT platform Simone Ciaralli OHB Sweden AB - SE	00585 - Modelling and Optimizing an Electrohydrodynamic Thruster Eduardo Calvo University of Porto - PT	00175 - Answering the challenges for Electrical Capacitance Tomography systems in rocket propulsion tanks Philipp Behruzi ArianeGroup - DE	00536 - Effect of Post Weld Heat Treatment on AA-7075-T6 Pressure Vessel welded by Friction Stir Welding for Space Application Mohamed Khatir Algerian Space Agency - DZ		
12:20 5		00095 - 2D Full-Cycle Simulation of Air-Breathing Microwave Rocket Kuniyoshi Tabata The University of Tokyo - JP		00395 - Electric Thruster Selection Criteria: a System Point of View Christophe Koppel KopooS Consulting ind. - FR					
12:40	LUNCH BREAK								

PARALLEL SESSIONS								EXHIBITION and NETWORKING	
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7		
	SESSION 29 - ST LRE Turbopumps 2	SESSION 30 - ST Engine/Vehicle Interfaces	SESSION 31 - SC Cubesat Propulsion Systems 5	SESSION 32 - SC Electric Propulsion 5	SESSION 33 - SC New propulsion Concepts 2	SESSION 34 - SC Hybrid Systems 1	SESSION 35 - SC Manufacturing and Processes		
	Lilian PREVOST, (CNES), FR	Chris HUNTER (ESA)	David KREICI, Enpulsion, DE	Michele COLETTI, Thales Alenia Space, UK	Helmut CIEZKI, DLR, DE	Davar FEILI (ESA)	Sébastien BIANCHI, Air Liquide, FR		
	Csaba JEGER (ESA)	Gérard ORDONNEAU, ONERA, FR	Matthew SMITH (ESA)	José GONZALEZ DEL AMO (ESA)	Mark FORD (ESA)	Toru SHIMADA, JAXA, JAP	Marco DE ROSA (ESA)		
	00417 - Mathematical Modeling of Powerhead Test Article for a Semi-Cryogenic Engine Avinash Chandra Liquid Propulsion Systems Centre - ISRO - IN	00157 - Research on Propellant Slosh Dynamics of a Martian Moon Lander Keitaro Anii The University of Tokyo - JP	00289 - Endurance Test of PETRUS SJ and Presentation of a Flight Model Design Christoph Montag University of Stuttgart - DE	00176 - HEMPT electric propulsion status update Ernst Bosch Thales - DE	0040 - Modeling the Propellant-less Thrust Obtainable from Quantised Inertia. Mike McCulloch University of Plymouth - UK	00278 - The SpaceDrive Project - Conclusion of Mach-Effect-Thruster Experiments on High-Precision Balances in Vacuum Maxime Monette Technische Universität Dresden - DE	00352 - Development and Qualification of an Electric Propulsion Thruster Orientation Mechanism for Electra GEO satellite Ashley Hallock OHB Sweden AB - SE		
	00537 - Development of High Speed Hybrid Bearings for Reusable Pump-Fed Liquid Rocket Engines Angelo Pasini University of Pisa - IT	00361 - Drag analysis of a modern lightweight launch vehicle at high mach numbers Ainslie French CIRA - IT	00272 - Long lifetime solenoid valve for Electric Propulsion Systems Bohdan Yurkov Space Electric Thruster Systems - UA	00192 - Hybrid PIC-Fluid Simulation of a Waveguide ECR Magnetic Nozzle Plasma Thruster Marco Riccardo Inchiglolo Universidad Carlos III de Madrid - UC3M - ES	00104 - Thrust Measurements and Evaluation of Asymmetric Infrared Laser Resonators for Space Propulsion Oliver Neunzig Technische Universität Dresden - DE	00283 - Hybrid Propulsion System for Deep Space CubeSat mission Fredrik Persson GomSpace Sweden - SE	00224 - Magnetic Field Enhancement of the Quad Confinement Thruster (QCT): Design and Early Development of the QCT Phoenix Emmanuelle Rosati Azevedo AVS - Added Value Solutions UK - UK		
16:40	1	00569 - Contributions regarding the gas dynamics of a turbine with partial admission Alexandru-Claudiu Cancescu Romanian Research and Development Institute for Gas Turbines - COMOTI - RO	00588 - Design optimisation and analysis of very high power transportation system to Mars Orr Cohen ESA - NL	00112 - MEMS thruster based 6DoF propulsion system for CubeSats Umut Cindemir GomSpace Sweden - SE	00521 - Development activities on the Engineering Qualification Model of SITAEL's 5kW-class Hall thruster unit Tommaso Andreussi SITAEL - IT	00198 - Net-shape Technologies for Low-cost Manufacture of Tank Shells and Weld-free COPV Liner Ralf Becker TISICS Limited - UK	00541 - Common Propellant Hybrid Propulsion System Architecture using Applied-Field Magnetoplasmadynamic Thrusters Marcus Collier-Wright Neutron Star Systems - DE	00493 - Market Entries for SUPREMETM Thrusters: Commercialization of Superconductor-based AF-MPD Manuel La Rosa Betancourt Neutron Star Systems - DE	
17:00	2	00552 - Versatile water test bench for launchers liquid engines turbo-pumps and fluids management devices Dan Ifrim Romanian Research and Development Institute for Gas Turbines - COMOTI - RO	00584 - Rocket Engine Digital Twin – Modeling and Simulation Benefits David Jimenez Mena Siemens Digital Industry Software - FR	00285 - Development of an Innovative Chemical Propulsion Subsystem for 12U Earth Observation and Telecommunication Missions Marcos Perez LIFT ME OFF - UK	00044 - Spectral radiance measurements of SPT140 thrusters Antoine Iffly Thales Alenia Space - FR	00308 - Plasma Acceleration by Electromagnetic Nozzle for an Inertial Electrostatic Confinement Cathode: Development and Characterization Yung-An Chan University of Stuttgart - DE	00024 - Comparison of green and conventional rocket propellants: system analysis tool for in-space propulsion Lukas Werling DLR - German Aerospace Center - DE	00491 - High Temperature Superconductor based propulsion and power system architectures as enablers for high power missions Marcus Collier-Wright Neutron Star Systems - DE	
17:20	3	00580 - Development of turbines nitrogen feed systems for liquid rocket engines turbo-pumps test benches Dan Ifrim Romanian Research and Development Institute for Gas Turbines - COMOTI - RO	00169 - The Evolution of the Liquid Cores in Flash Boiling Liquid Nitrogen Sprays Andreas Rees DLR - German Aerospace Center - DE			00012 - Lunar Mission Tanks Using Surface Tension Propellant Management Devices for Propellant Acquisition and Supply Don Jaekle Pmd Technology - US	00013 - Investigation of Next Generation Combined Propulsion Architectures for Electric and Chemical Propulsion Oscar Jennings Airbus - GB	00268 - High-Accuracy Thrust Measurements of the EM Drive and Elimination of False-Positive Effects Martin Tajmar Technische Universität Dresden - DE	
17:40	4								
18:00	5								
18:20		END OF DAY 2							

	DAY 3 : March 19th, 2021 ENVIRONMENT PLENARY SESSION								EXHIBITION and NETWORKING		
9h00	Plenary Round Table #4 : Green propulsion for space applications between the different demands of old and new mission conditions, cost reduction, and increasing environmental and health regulations Helmut CIEZKI, DLR										
10h40	COFFEE BREAK										
	PARALLEL SESSIONS										
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8			
CHAIR 1	SESSION 36 - ST Green & Hybrid Propulsion 1 Jérôme ANTHOINE, ONERA, FR	SESSION 37 - ST LUMEN Project Stefan SCHLECHTRIEM, DLR, DE	SESSION 38 - SC Green Propulsion 1 Helmut CIEZKI, DLR, DE	SESSION 39 - SC Cold Gas Thrusters Gilles VIGIER, ISAF, FR	SESSION 40 - SC Propellants 1 Sébastien BIANCHI, Air Liquide, FR	SESSION 41 - SC Electric Propulsion 6 George SCHMIDT, NASA, US	SESSION 42 - SC ISRU 1 Nathalie GIRARD (CNES)				
	David PERIGO (ESA)	Marco DE ROSA (ESA)	Kenichi KIMOTO, IHI, JP	Niccola KUTUFA (ESA)	Stephan SCHUSTER (ESA)	Kathe DANNEMEYER (ESA)	Christophe BONNAL, CNES, FR				
11:00	00499 - Preliminary assessments for the development of a green storable bipropellant rocket engine based on H2O2 Stefania Carlotti Politecnico di Milano - IT	00375 - LUMEN Demonstrator – Project Overview Jan Deeken DLR - German Aerospace Center - DE	00312 - A survey on energetic ionic liquid green propellants and investigation of feed and pressurization systems for small satellites high-thrust impulsive propulsion Ahmed Nossir TU DELFT x University of Pisa - IT	00089 - Development of cold gas propulsion system for a Portuguese EO & maritime surveillance satellite Nuno Fernandes Omnidea-RTG GmbH - DE	00017 - Using of Iodine as Propellant in Electric Thrusters Konstantinos Katsonis DEDALOS Ltd - GR	00307 - Performance characteristics and efficiency analysis of a microwave cathode - 200 W Hall thruster system Takato Morishita The University of Tokyo - JP	KEYNOTE SPEECH #3 : Lunar ISRU propellant production for in-situ refueling: Operational challenges and implications for space propulsion Laurent SIBILLE, NASA, USA				
	00363 - Overview of the development of a H2O2-based chemical attitude control system for VEGA-C Bastien Haemmerli Nammo Raufoss AS - NO	00345 - LUMEN Turbopump – Status of the Development and Testing Tobias Traudt DLR - German Aerospace Center - DE	00381 - Development of Hydrogen Peroxide based Monopropellant Thruster Narender Kumar Liquid Propulsion Systems Centre - ISRO - IN	00257 - Direct Thrust Measurements of an Iodine Cold Gas Propulsion System Elena Zorzoli Rossi ThrustMe - FR	00171 - Effects of bias potential inside the water ion thruster on thrust performance Yasuho Ataka University of Tokyo - JP	00297 - Radial particle-in-cell simulations of a Hall Thruster discharge with different anomalous transport models Alberto Marín-Cebrián Universidad Carlos III de Madrid - UC3M - ES					
11:20	00373 - Hydrogen Peroxide RCS on a sounding rocket - a milestone towards launch vehicles and satellite platforms applications. Tomasz Noga tukasiewicz Research Network - Institute of Aviation - PL	00292 - LUMEN Thrust Chamber - Injector Performance and Stability Justin Hardi DLR - German Aerospace Center - DE	00413 - Development of Catalyst for HAN based Monopropellant Thruster Savitry Kumari Liquid Propulsion Systems Centre - ISRO - IN	00455 - Proba-2 Cool Gas Generator Experiment: 10 years in orbit, experiences and lessons learned Berry Sanders HDES Service & Engineering BV - NL	00061 - The investigation of alternative solid propellants in Hall Effect Thrusters Vlad-George Tirila University of Southampton - UK	00090 - Design and preliminary study of a 200W Cylindrical Hall Thruster Tatiana Perrotin Universidad Carlos III de Madrid - UC3M - ES	00016 - Spacecraft Propulsion with ISRU near Mars and Venus, Based on CO2 Propellant Chloe Berenguer DEDALOS Ltd - GR				
	00485 - Design of a Hovering Sonding Rocket Stage for Measurements in the High Atmosphere Karl Wieland Naumann Bayern-Chemie GmbH - DE	0048 - LUMEN Thrust Chamber - flame anchoring for shear coaxial injectors Michael Börner DLR - German Aerospace Center - DE	00426 - Influence of hot-firing tests on the characteristics and activity of a catalyst for the hydrogen peroxide decomposition Santiago Casu Heraeus Deutschland GmbH & Co. KG - DE	00087 - (X)MET: DESIGN AND TEST OF MICROWAVE ELECTROTHERMAL THRUSTERS WITH ARGON and XENON Thomas Baxter AVS - Added Value Solutions UK - UK	00054 - Research on Multiphase Flow and Catalytic-Combustion Reaction of Microthruster with ADN-Based Monopropellant Xuhui Liu Beijing Institute of Control Engineering - JP	00056 - Development Status of the ST-40 Hall Thruster Danill Shcherbak Space Electric Thruster Systems - UA	00018 - Evaluation of Earth Atmosphere Remnants Used as Propellant in Electric Thruster Technology Chloe Berenguer DEDALOS Ltd - GR				
12:00	00233 - Controlling Low Frequency Instability in Hybrid Rocket Combustion Jina Kim Konkuk University - KR	00068 - LUMEN - Design of the Regenerative Cooling System for an Expander Bleed Cycle Engine using Methane Jan Haemisch DLR - German Aerospace Center - DE					00195 - About Development Feasibility of a High Specific Impulse Thruster with Closed Electron Drift Alexander Solodukhin SSC Keldysh Research Centre - RU	00364 - Oxygen and propellant production on Mars by non-equilibrium plasmas Vasco Guerra Universidade de Lisboa - PT			
12:40	LUNCH BREAK										

	PARALLEL SESSIONS					EXHIBITION and NETWORKING
	Room 1	Room 2	Room 3	Room 4	Room 5	
CHAIR 1 CHAIR 2	SESSION 50 - ST Manufacturing & Process Sébastien BIANCHI, Air Liquide, FR Marc VALES, Dassault Aviation, FR	SESSION 51 - ST Modeling Thrust chamber Gérard ORDONNEAU, ONERA, FR Lilian PREVOST, (CNES), FR	SESSION 52 - SC Green Propulsion 3 Wilhelm DINGERTZ, Bradford Ecaps Lorenzo BISI, OHB, SE	SESSION 53 - SC Electric Propulsion 8 Olivier DUCHEMIN, SAFRAN SEP Denis ESTUBLIER (ESA)	SESSION 54 - SC Cathodes Michele COLETTI, Thales Alenia Space, UK Birk WOLLENHAUPT, OHB, DE	
	00099 - Development of an ALM Thrust Chamber for VEGA-E M10 Rocket Engine Danièle Liuzzi AVIO SpA - IT	00240 - Investigation of Liquid Cooling Films for storable propellant rocket engines Sebastian Soller ArianeGroup - DE	00094 - Experimental testing of small H2/O2 thrusters in atmospheric and vacuum conditions Razvan Nicoara Romanian Research and Development Institute for Gas Turbines - COMOTI - RO	00100 - Development update of the X-EPT Microwave Gridded Ion Thruster for the IMPULSE Propulsion Architecture Sam Reeve AVS - Added Value Solutions UK - UK	00131 - Investigation of C12A7 electrode as a thermionic neutralizer Nils Gerrit Kottke Airbus - DE	
16:40	1					
17:00	00219 - Additive manufacture of rocket engine combustion chambers from CuCrZr (C-18150) using the DMLS process Iain Waugh Airborne Engineering - UK	00259 - Machine Learning Methods for Design and Operation of Liquid Propellant Rocket Engines Guenther Waxenegger-Wilfing DLR - German Aerospace Center - DE	00064 - Electrolysis Based Water Propulsion for Future 1-Ton Class LEO Mission Satellites Nuno Fernandes Omnidea-RTG GmbH - DE	00421 - HIPATIA: a project for the development of the Helicon Plasma Thruster and its associated technologies to intermediate-high TRLs Mercedes Ruiz SENER Aeroespacial - ES	00153 - Endurance Test of a Heaterless Hollow Cathode using the Emitter Material C12A7 Electrode Christian Drobny Technische Universität Dresden - DE	
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17:20	00220 - Additive manufacture of rocket engine combustion chambers using the ABD®-900AM Nickel superalloy Iain Waugh Airborne Engineering - UK	00362 - Development of a film-cooled thrust chamber component in the ESPSS library Pierluigi Concio Sapienza University of Rome - IT	00243 - Conceptual design of dual plates throttleable injector for monopropellant thruster: a cold flow study Yerhyun Kim Korea Advanced Institute of Science and Technology - KR	00295 - Power Processing Unit Activities at Thales Alenia Space in Belgium Eric Bourguignon Thales Alenia Space in Belgium - BE	00334 - Helical Plume Instabilities in a 25A LaB6 Hollow Cathode Giulia Becatti University of Pisa - IT	
	3					
17:40	00165 - Selective laser manufactured copper alloy nozzle for sub-scale thrust chambers Dmitry Suslov DLR - German Aerospace Center - DE	00519 - Injector wall heat transfer quantification in supercritical nitrogen injection Leandro Barbosa Magalhães University of Beira Interior - PT	00299 - Optical Investigation on the Hypergolic Reaction Between Green Liquid Ionomics and Highly Concentrated Hydrogen Peroxide Robert Stützer DLR - German Aerospace Center - DE	00005 - Long-Duration Wear Testing of the ASTRAEUS Hall Thruster, Phase I: 50 kg Xe Total Throughput Ryan Conversano JPL - US	00392 - 2 dimensional modelling of heaterless hollow cathodes Stephen Gabriel University of Southampton - UK	
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18:00	KEYNOTE SPEECH #5: Conclusions of the Space Propulsion Conference, 7th Edition Alberto GARBAYO, AVS UK, Helmut CIEZKI, DLR					
18:30	END OF CONFERENCE					