	MONDAY 20 MAY 2024 // DAY 1: CONFERENCE OPENING & PLENARIES	
08:30	WELCOME COFFEE	
ROOM	PLENARY SESSION	
10:30	WELCOME ADRESSES Michel ASSOULINE, 3AF CEO - Cllr Jacqueline McLAREN, Lord Provost of the City of Glasgow	
10:45	CONFERENCE INTRODUCTION Jamila MANSOURI & Jean-François GUERY, Conference co-chairs	
11:00	Round Table #1 : AGENCIES ROUND TABLE MID AND LONG TERM POLICIES IMPACTING FUTURE PROPULSION Moderator: Chiara MANFLETTI, TUM Paul BATE, UKSA - Toni TOLKER NIELSEN, ESA - Claus LIPPERT, DLR - Hitoshi KUNINAKA, JAXA - Jean-Marc BAHU, CNES	E X
12:30	LUNCH	H
14:00	Round Table #2.1 : INDUSTRIES ROUND TABLE How to speed up innovative propulsion release to market ? Moderator: Jamila MANSOURI, ESA Giulio RANZO, AVIO - Martin SION, ArianeGroup - Lahib BALIKA, Thales Alenia Space- Rob SELBY, NAMMO SPACE - SKYRORA (TBD)	B I T
15:00	Round Table #2.2 : INDUSTRIES ROUND TABLE How to speed up innovative propulsion release to market ? Moderator: Jamila MANSOURI, ESA Chiara PERTOSA, SITAEL - Dean McBRIDE, AIRBUS Defence and Space - Patrick VAN PUT, Bradford Space Europe - Emmanuel POULEAU, Safran Espace - Eric KRUCH, SES Satellite	I O N
16:00	COFFEE BREAK	
16:30	KEYNOTE SPEECH #1: Flying Artemis 1 with the European Service Module's Propulsion System Tobias Langener (ESA), Stephen Barsi (NASA)	
17:00	Round Table #3: SPACE PROPULSION AMBITIONS FOR FUTURE CARGO & CREW SERVICE VEHICLES TO LEO AND BEYOND Introduction: Samantha Cristoforetti, ESA Tobias Langener, ESA - Stephen Barsi, NASA - Jan-Hendrik MEISS, Airbus Defence and Space - Hélène HUBY, The Exploration Company - Stephan BRIESCHENK, Rocket Factory Augsburg	
18:00	END OF DAY 1	
19:30	TRADITIONAL DINNER	

TUESDAY 21 MAY 2024 // DAY 2

08:30				RELIANCE	, the innovative main engine supp	KEYNOTE SPEECH #2 orting interplanetary exploration	- Elliott Worsley and Rob Westcott	, NAMMO		
		ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8	ROOM 9
		SESSION 01	SESSION 02	SESSION 03	SESSION 04	SESSION 05	SESSION 06	SESSION 07	SESSION 08	SESSION 09
		Maturation Programs overview 1	Solid Rocket Motors 1	Thrust Chamber Design & Development	Air Breathing Orbital Propulsion I	Numerical Methods for Chemical Propulsion	Green Propellant Systems: Program Overviews	Resistojets	Electric Propulsion for Deep Space Exploration	Test Facilities
Chair		Stefano MATTEINI - ESA	Jérôme ANTHOINE - ONERA	Victor FERNANDEZ VILLACE - ESA	Davar FEILI - ESA	Csaba JEGER - ESA	Ulrich GOTZIG - ArianeGroup	David PERIGO - ESA	Joe CASSADY - Aerojet Rocketdyne	Juliusz SARYCEW - ESA
		181 - NASA's Developments in Cryogenic	260 - Use of a new ballistic catalyst and its	435 - Regenerative Cooling of 3.5kN Bi-	024 - Design and numerical investigation on	122 - Direct Numerical Simulation of a	239 - Green Propulsion Status, Testing,	036 - On the Development of a Variable	063 - Exploration of the Neptune vicinity	045 - Hot Plume Testing Facility Cologne
09:20	1	Fluid Management Technology Lauren AMEEN - NASA Glenn Research Center - United States	consequences on Solid Rocket Motor and at System levels Fabrice MARTIN - ArianeGroup - France	propellant Thrust Chamber: Improvements in Material Selection and Cooling Design Oliver DEW	the air-intake device of atmosphere- breathing electric propulsion system Yu ZHANG - National University of Defense	Supercritical planar Jet Leandro MAGALHÄES - Instituto Superior Técnico - Portugal	Risks, and Infusion Henry MULKEY - NASA GSFC - United States	Propellant Resistojet with Integrated Heating Elements Laura SMITH - Benchmark Space Systems -	using electric propulsion Konstantinos KATSONIS - DEDALOS Ltd - Greece	(HPTF): Demonstration, Qualification and Exploration Tests with the Water-cooled PennState-like Burner HOC2
		center officer states	radice in an in France is a property of the interest of the in	The Helicanite of Chaffield Helicad Wandow	Technology - China	recined Fortage		United States	Siecece.	Dominik SAILE - DLR - Germany
09:40	,	456 - CRYSALIS – A European Cryogenic Storage and Refuelling In-orbit Demonstration	579 - Aluminum particles role in SRM thrust oscillations - Challenges for P120C SRM evolutions	286 - Design, Development and Testing of the Injector for a 3D-Printed Throttleable and Reusable LOX/Methane Rocket Engine	064 - Modeling and diagnosing the electric thruster plasma in case of fueling by CO2 collected from the Mars atmosphere	136 - Implementation of a molecular flow model and its transition from the continuous regime within ESPSS/EcosimPro	380 - Recent Progress on Green Hypergolic Bipropellant Research in JAXA Keigo HATAI - Japan Aerospace Exploration	124 - Development of an Additively Manufactured Resistojet with Novel Heat Exchanger for CubeSats	114 - Enabling high-power propulsion systems for large scale transportation, from Earth orbits and the cis-lunar region to Mars and beyond	293 - Overview of rocket testing at the Westcott test facility (2022/2023) lain WAUGH - Airborne Engineering - United
05.40	_	Kathleen BLYTH - Absolut System - France	Severine LARRIEU - ArianeGroup - France	Alexander BEE - German Aerospace Center (DLR) - Germany	Chloe BERENGUER - DEDALOS Ltd - Greece	Alejandro SEVILLANO GONZALEZ - EMPRESARIOS AGRUPADOS INTERNACIONAL - Spain		Daniel TURNER - Curtin University - Australia		Kingdom
		406 - Next Stage to Space: a roadmap to future launcher technologies	102 - Effects of Process Variables on Mechanical Properties of Composite Propellant.	351 - Research Roadmap for Injectors of Future Throttleable Liquid-Oxygen/Liquid- Methane Rocket Engines	078 - Atmosphere-Breathing Planetary Orbital Navigator	288 - Liquid Film Cooling: Advanced Modeling and Efforts Towards Validation	387 - DESIGN STUDIES OF GREEN PROPELLANT BASED THRUSTERS FOR SPACECRAFT PROPULSION	254 - Qualification of freezing-resistive propellant for water-based resistojet	171 - Propulsion architecture enabling an interstellar medium exploration mission to 200 astronomical units in 25 years	389 - Development of testing facilities for electric propulsion in United Arab Emirates
10:00	3	Antonio ACCETTURA - AZO - Space of Innovation - Germany	P SUNITHA - NIT - India	Alexander POLIDAR - Technische Universität München - Germany	John SLOUGH - MSNW LLC - United States	Federico GIAMBELLI - Politecnico di Milano - Italy	Soumyadeep MONDAL - INDIAN SPACE RESEARCH ORGANISATION - India	Clément PROFIT - Bradford Space - Luxembourg	Elisa CLIQUET MORENO - CNES - France	Anton IVANOV - Technology Innovation Institute - United Arab Emirates
		400 - Technology Roadmap for the development of a European Staged	306 - Green disposal solutions for SRMs dismantling and energetic materials	498 - Design and placing into operation a 25 kN regeneratively cooled LOX/LNG thrust	377 - Overview of ABEP System Development Advances at the Institute of	446 - CFD MODELING AND ANALYSIS OF PINTLE INJECTOR FOR DEEP THROTTLING	494 - Lessons learned from the development and testing of the novel green hypergolic	499 - Design and Testing of a small Water Resistojet Thruster in micro-gravity	327 - Deep Space Cubesat Propulsion Systems: a General Overview of the	509 - Development and operations of green space propulsion test facilities complex for
10:20	4	Combustion Rocket Engine for Reusable Launch Vehicles	production wastes Sébastien KIEFFERT - ArianeGroup - France	chamber for the LUMEN-Project Dmitry SUSLOV - Institute of Space	Space Systems Elizabeth GUTIÉRREZ - Institute of Space	ENGINE DESIGN Mithun JYOTHI	propellant HIP_11 Felix LAUCK - DLR Institute of Space	environment. Fabiano PERINI - CNRS - France	Main Features, Challenges and Solutions Giorgio SAITA & Giovanni FUMO - Argotec -	vacuum and atmospheric conditions at Łukasiewicz Research Network – Institute of Aviation.
		Vasileios PASTRIKAKIS - SoftInWay UK Ltd - United Kingdom	Sebastien Will Film Film Film Film Film Film Film F	Propulsion, German Aerospace Center - Germany	Systems (IRS) - Germany	Indian Space Research Organisation, Liquid	Propulsion - Germany	Tablato I Ettilia Cittle Transce	Italy	Tobiasz MAYER - Institute of Aviation -
10:40				- Commony		COFFEE BREAK				
10.40		SESSION 10	SESSION 11	SESSION 12	SESSION 13	SESSION 14	SESSION 15	SESSION 16	SESSION 17	SESSION 18
		Maturation Programs overview 2	Solid & Hybrid Propulsion Programs	Thrust Chamber - Modeling 1	Air Breathing Orbital Propulsion II	Monopropellant Thrusters	Program Overviews	Power Processing for Electric Propulsion	Electric Propulsion Qualification & Flight Programs	Manufacturing Techniques I
Chair		Didier BOURY - ArianeGroup	Fabrice MARTIN - ArianeGroup	Dirk SCHNEIDER - ESA	Davar FEILI - ESA	Ulrich GOTZIG - ArianeGroup	Davina DI CARA - ESA	Simone CIARALLI - ESA	Olivier DUCHEMIN - Safran	Gerard ORDONNEAU - ONERA
11:00	1	558 - Recent Research Activities on HYPROB OX/CH4 Demonstrators Line Daniele RICCI - CIRA - Italian Aerospace Research Center - Italy	084 - Ariane S Solid Rocket Motor (MPS): success story of a robust design Nicolas RUMEAU - ArianeGroup - France	057 - Modelling of heat transfer in very rough cooling channels Jan ÖSTLUND - GKN Aerospace Engine Systems Sweden - Sweden	466 - Lessons learnt through theoretical and experimental studies on Radio Frequency Air Breathing Ion Thruster development. Maria SMIRNOVA - TransMIT GmbH -	126 - Results of ESA-GreenRAIM Test Activities Part 1: Experimental Investigation of a 1 Newton Hydrogen Peroxide Monopropellant Research Thruster	037 - Propulsion Systems Trends in Italian Space Agency ALCOR Program Giuseppe LECCESE - Italian Space Agency (ASI) - Italy	029 - Airbus D5 - Space Electronics, Power Processing Units last developments and technologies status Eric TREHET - Airbus Defense & Space -	232 - MUSIC HALL EFFECT THRUSTER AND ARM RESISTOJETS AS A MULTI-MODAL ELECTRIC PROPULSION ENGINE (MEPE): SYSTEM ARCHITECTURE, QUALIFICATION, AND IN-ORBIT DEPLOYMENT	004 - Cold Spray Additive Manufacturing (CSAM) – an economical manufacturing method to shorten the time to market for large space propulsion components
					Germany	Florian MERZ - German Aerospace Center (DLR) - Germany		France	Khoo Kai SHENG - Aliena Pte Ltd - Singapore	Markus BROTSACK - Impact Innovations GmbH - Germany
11:20	2	541 - CNES/JAXA Cooperation: Experimental Studies on Hydrodynamic Face Seals in LOX and LH2 for Rocket Engine Turbopumps Dynamic Seals Package	599 - DEVELOPMENT STATUS AND FUTURE OBJECTIVES OF P160C, COMMON SOLID ROCKET MOTOR FOR ARIANE 6 BLOCK 2 AND VEGA-C/VEGA-E LAUNCHERS	138 - Conjugate Heat Transfer Numerical Simulations of a Methane-Oxygen Liquid Rocket Engine Mario Tindaro MIGLIORINO - Sapienza	502 - Investigation into the influence of microstructural facets on Atmosphere Breathing Electric propulsion intakes Kate SMITH - University of Manchester -		065 - European Space Agency Activities on Electric Propulsion Davina DI CARA - European Space Agency - The Netherlands	070 - PPU Developments at Thales Alenia Space in Belgium Eric BOURGUIGNON - Thales Alenia Space in Belgium - Belgium	303 - Flight Qualification of the Orbion Aurora Electric Propulsion System Scott HALL - Orbion Space Technology - United States	081 - Cryogenic Spray Characteristics of a Metal Additive Manufactured Gas-Liquid Pintle Injector for Throttleable Rocket Engines
		Giuseppe FIORE - CNES - France	Maria Luisa FREZZOTTI - EUROPROPULSION France	University of Rome - Italy	United Kingdom	Till HÖRGER - Deutsches Zentrum für Luft- und Raumfahrt - Germany				Subeom HEO - Seoul National University - South Korea
11.40		102 - Free-Flight Testing and Future Work on the Gyroc VTVL Platform	487 - From ground to space: an overview of the propulsion systems development at Hylmpulse	216 - Experimental and Numerical Investigation of Frictional Behaviour and Heat Transfer in 3D Printed Rocket Engine	572 - Attitude and Orbital Stability of Very Low Altitude Nanosatellites equipped with Air-breathing Electric Propulsion	113 - Development of Low-cost Monopropellant 20N Thruster for the Launch Vehicle RCS	550 - High-Power Electric Propulsion Systems at Sitael	226 - Development and Qualification of Propulsion Control Electronics	344 - The RIT 2X product development and qualification program	130 - ICME framework for functionally graded materials design for additive manufacturing of space components
11:40	3	Edward MOORE - Airborne Engineering - United Kingdom	Jérôme MESSINEO - Hylmpulse Technologies - Germany	Cooling Channels Tiziano SANTESE - Technical University of Munich - Germany	Ferrato EUGENIO - Sant'Anna School of Advanced Studies - Italy	Masahiro TAKAHASHI IHI Aerospace Co., Ltd Japan	Alena KITAEVA - SITAEL S.p.A Italy	Marcos PEREZ - LMO - United Kingdom	Jan-Patrick PORST - ArianeGroup GmbH - Germany	John ARISTEIDAKIS - QuesTek Europe AB - Sweden
		567 - Project Bifrost Technical Report 2023 Propulse NTNU	528 - Results and Achievements of the ENVOL Project	· · · · · · · · · · · · · · · · · · ·	573 - Development of a novel CubeSat-scale air-breathing electric propulsion system.	055 - Development of a 250N Class Monopropellant Thruster	616 - Electric propulsion activities at ONERA Victor DÉSANGLES - ONERA - France	231 - POWER PROCESSING AND ELECTRONIC CONTROL UNITS FOR SUB-100 W HALL EFFECT THRUSTERS: DESIGN AND IN	465 - 20 years of electric propulsion in-flight experience on Airbus satellites	271 - A novel multifunctional additive manufactured lattice structure design for thermal and mechanical improvement of
12:00	4	Simen Flåtter FLO - Propulse NTNU - Norway	Gianluca LIGGIERI - Nammo Raufoss AS - Norway	Matteo FIORE - SAPIENZA UNIVERSITY OF ROME - Italy	Vittorio GIANNETTI - Scuola superiore Sant'Anna - Italy	Ulrich GOTZIG - ArianeGroup GmbH - Germany		FLIGHT DATA Nunki PONTIANUS - Aliena Pte Ltd - Singapore	Carine PONT - Airbus Defense & Space - France	liquid rocket engine injector face plates Matteo CRACHI - Politecnico di Torino - Italy
	\dashv	574 - ITALIAN SPACE TRANSPORTATION	607 - Development of the Solid Propulsion	228 - Influences of Hydrocarbon Impurities	595 - The BREATHE Laboratory: a novel	135 - Catalyst Chamber Resonance	180 - Propulsion as a gateway to a new	332 - Power processing and control system	504 - TETRA PROPULSION SYSTEM STATUS	326 - Introduction of the felt mat for space
12.20		PROGRAMS AND ROADMAPS Marta ALBANO - Agenzia Spaziale Italiana -	System for deorbitation manoeuvres with a dedicated Thrust Vector Control	on Heat Transfer Deterioration for Supercritical LNG Flowing in Cooling Channel	Verification Approach for Air-breathing Electric Propulsion.	Dynamics in sub-Newton Chemical Propulsion Systems	space economy - Innovations in Propulsion within ESA'S Future Launcher Preparatory Programme (FLPP)	PPU-500 of the electric propulsion system SPS-40M	Jaime PEREZ LUNA - Thales Alenia Space UK - United Kingdom	application. Gopika MUKUNDAN - Cranfield University -
12:20	٦	Italy	Pawel NOWAKOWSKI - Institute of Aviation Poland	· Ibraheem NASSER - Technical University of Munich - Germany	Tommaso ANDREUSSI - Sant'Anna School of Advanced Studies - Italy	Francesco GARRONE - Pangea Aerospace - Spain	Kate UNDERHILL - ESA - France	Olexandr PETRENKO - Space Electric Thruster Systems - Ukraine	2.0000 00000	United Kingdom
12:40	\sqcap					LUNCH				

14:00					ROUND TABLE #4 : Panorama of U Mode , AIRBUS - Adam WATTS, NAMMO	erator: Thomas Clayson, Magdriv	e				
		SESSION 19	SESSION 20	SESSION 21	SESSION 22	SESSION 23	SESSION 24	SESSION 25	SESSION 26	SESSION 27	
		Engines & stages developpement & tests 1	Solid Rocket Motors 2	Thrust Chamber design 1	Injection & Combustion in Biprop Systems	Storage & Distribution of Green Propellants	Combustion	Water propulsion systems	Magneto Plasma Dynamic Thrusters	Experimental Techniques	
Chair		Gilles VIGIER - 3AF	Jérôme ANTHOINE - ONERA	Rogier SCHONENBORG - ESA	Ulrich GOTZIG - ArianeGroup	Olga MOTSYK - ESA	Yohann TORRES - ESA	Stephen GOODBURN - AIRBUS	Joe CASSADY - Aerojet Rocketdyne	Victor FERNANDEZ VILLACE - ESA	
15:10		548 - Status of the development of a liquid cryogenic rocket engine called STAR	640 - A European Low Energy Exploding Foil Initiator (LEEFI) for next generation launch vehicles		112 - Preliminary Test of Kerosene Nitrous Oxide Catalytic Decomposition Bipropellant Thruster	252 - Advances in microencapsulated hydrocarbon fuels in combination with hydrogen peroxide for the production of	204 - Spray Combustion Visualization of Sheet-impinging Injector for Hypergolic Fuel and H2O2	051 - Water Propulsion: Developments for an In-Orbit Demonstration Malte WURDAK	385 - Downscaling the 100kW SX3 AF-MPD to the 5kW SUPREME Thruster	018 - Verification of Dynamic Pressure Response Measurement Using Multiplexed Fiber Bragg Gratings in MMX System Firing Test	
15:10		Francois MAROQUENE-FROISSART - SIRIUS SPACE SERVICES - France	Martin OLDE - TNO (Netherlands Organization for Applied Scientific Research) - The Netherlands		Seungho LEE - Korea Advanced Institute of Science and Technology (KAIST) - South Korea	new monopropellants Robin SCHOLL - German Aerospace Center (DLR) - Germany	Hyeonjun IM - Korea Advenced Institute of Science and Technology - South Korea	ArianeGroup GmbH - Germany	Michael WINTER - Neutron Star Systems - Germany	Kohji TOMINAGA - JAXA - Japan	
15:30	2	316 - LUMEN, the test bed for rocket engine components: Results of the acceptance tests and overview on the engine test preparation Tobias TRAUDT - German Aerospace Centre (DLR) - Germany	123 - The basec design of laser initiated detonator and investigation results of the ignition characteristics Yoshiki MATSUURA - IHI Aerospace - Japan	395 - Comparison of Sodium Borohydride with Additives Abilities to Hypergolic Ignition of Fuel-Hydrogen Peroxide Green Bipropellants Célia SOUDARIN - ISAE ENSMA - France	346 - Run-in Tests on a Cooling Channel Test Section for Investigations on the Applicability of High-Test Peroxide as Coolant in regeneratively cooled Space Propulsion Systems Julian SCHOLL - German Aerospace Center	515 - Material Compatibility of Hydrogen Peroxide for Propulsion Engineers Laura SMITH - Benchmark Space Systems - United States	223 - Ignition and flame stabilization in liquid bipropellant combustion using hydrogen peroxyde catalytically decomposed hot gases Camille COTTENOT - PPrime - France	439 - Overview of water propulsion developments at Airbus Defence & Space Sam WILSON - Airbus Defense & Space - United Kingdom	422 - A "plug & play" thruster system combining VAT and MPDT technologies Julien SCHEINER Comat - France	062 - Demonstration of data collection and processing for technology building with propulsion system failure diagnosis utilized the MMX propulsion firing test Kaname KAWATSU - JAXA - Japan	
15:50		397 - TOWARDS A NEW CLASS OF ENGINE FOR FUTURE HEAVY LIFT LAUNCH VEHICLES – A STEPWISE APPROACH Amaya ESPINOSA RAMOS - CNES - France	467 - Effect of basket configuration on performance dispersion in pyrotechnic igniters employing BKNO3 pellets Giulia PELLA - Avio - Italy	294 - Research Combustor 'N': Combustion Chamber With Large Optical Access for Injection and Combustion Characterization at Sub- And Supercritical Pressure Conditions	(NIR) - Germany 354 - Development and Test of a Methalox Engine Injector with Distributed Micro- Injection Christian BAUER - Technische Universität München - Germany	523 - Hydrogen Peroxide Storability and Compatibility Verification Dagmara REGLIŃSKA - Jakusz- Spacetech sp. z o.o Poland	248 - Evaluation of DFI Flight Data to Reproduce Engine Combustion Chamber Dynamics Pedro Jose HERRAIZ ALIJAS - ESA - The Netherlands	454 - Sustainable Water Propulsion: A Green Horizon for Satellite Propulsion Systems Nuno FERNANDES - Omnidea-RTG - Germany	520 - Metal Plasma Thruster (MPT): from garage to orbit in 4 years Laura SMITH - Benchmark Space Systems - United States	318 - Verification of a Novel Collector- Thrust Measurement using a Low-Power Hall-Effect Thruster Oliver NEUNZIG - Technische Universität Dresden - Germany	E X
16:10		424 - System Aspects of European Reusable Staged-Combustion Rocket Engine SLME Martin SIPPEL - DLR-SART - Germany	282 - Ignition model improvement through iterative Bayesian inference in the frame of Small Scale Firing Tests Olivier ORLANDI - ArianeGroup - France	375 - Design Methodology for a Regenerative Liquid Rocket Engine manufactured by LPBF Antoine MARCHAND - EPFL ROCKET TEAM - Switzerland	553 - Measurement and real-time safety analysis of the combustion chamber temperature of green bipropellant LRE during experimental testing Adrian MORAWIEC - Institute of Aviation - Poland	566 - Feasibility analysis of a novel green propulsion system based on self-pressurized propellants Alberto SARRITZU - University of Pisa - Italy	530 - MODELLING OF HYDRAZINE DROPLET EVAPORATION AND COMBUSTION IN SMALL ROCKET THRUSTERS Tobias ECKER - DLR - Germany	611 - Technology Consolidation and Preliminary Design of a Superheated Water RCS Giulio CORAL - ThrustMe - France	543 - A Resistive magnetohydrodynamic model for an applied-field magnetoplasmadynamic thruster Jakub GLOWACKI - Victoria University of Wellington - New Zealand	630 - Disruptive Experimental Electric Propulsion Laboratory (DEEP Lab) Thomas CLAYSON - Magdrive Ltd - United Kingdom	H I B
16:30						COFFEE BREAK					
		SESSION 28	SESSION 29	SESSION 30	SESSION 31	SESSION 32	SESSION 33	SESSION 34	SESSION 35	SESSION 36	
		Engines & stages developpement & tests 2	Solid Rocket Motors 3	Thrust Chamber - Modeling 2	Development & Qual of Components for Biprop Systems	Decomposition of Green Propellants	Nuclear Power Systems	Water electrolysis propulsion	Ion Engines	Manufacturing Techniques II	
Chair		Lilian PREVOST - CNES	Didier BOURY - ArianeGroup	Jérôme ANTHOINE - ONERA	Markus PEUKERT - OHB	Ferran VALENCIA BEL - ESA	Jorge Ruiz TORRALBA - ESA	James SADLER - URA Thrusters	Davar FEILI - ESA	Gerard ORDONNEAU - ONERA	0
		154 - The ASTRIS KickStage Propulsion System – Development Status & Outlook – Step 2	270 - Computer-aided evaluation of the combustion behavior of ADN/GAP solid rocket propellants	247 - LOx/CH4 Coaxial injector non linear flame transfer function and 2D parametric axysimmetric LES simulations	050 - Development of the High Performance, 25lbf LEROS ACE-25 Engine	479 - Modelling and validation of catalytic green propellant thrusters	025 - Conceptual design of a bimodal space reactor for power generation and propulsion	015 - Plasma properties characterization of oxygen-fuelled Hall Effect Thrusters for Water Electrolysis propulsion	197 - GIESEPP-MP (Gridded Ion Engine Standardized Electric Propulsion Platforms – Medium Power) Status, Results and Outlook	022 - LASER generated Ultrasound technique for in-situ evaluation of electron beam welds in spacecraft propellant tanks	N
16:50	1	Dietmar WELBERG - ArianeGroup - Germany	Philip PIETREK - Fraunhofer-Institut für Chemische Technologie (ICT) - Germany	Maxime BOUTON - ONERA - France	Robert WESTCOTT - Nammo UK Ltd - United Kingdom	Jorge RUIZ TORRALBA - ESA - The Netherlands	Weijian AN - China Institute of Atomic Energy - China	Jesús Manuel MUÑOZ TEJEDA - Imperial College London - United Kingdom	Christoph MONTAG - ArianeGroup - Germany	made of Titanium alloy Ramprasad B - INDIAN SPACE RESEARCH ORGANISATION - India	
17:10		549 - Multifunctional Upper Stage Express Propulsion System Concepts and Technologies Christian HESSEL - ArianeGroup GmbH -	151 - Coupled-Level-Set-and-Volume-of- Fluid (CLSVOF)-Model for the Simulation of heterogenous Solid Rocket Motors Michael MOROFF - Fraunhofer Institute for	263 - Large-Eddy Simulation of LOx- CH4 supercritical flames Louis DUHEM DUVILLA - CORIA - CNRS, Normandie Université, INSA de Rouen	107 - Achieving Thermal Equilibrium in Nitrous Oxide Based, Bi-Propellant Thrusters Romain GARBY - Dawn Aerospace - New	532 - Thermal decomposition of hydrogen peroxide as green propellant: evaluation of catalysts and activation energy estimation Imane REMISSA - Chouaib Doukkali	115 - Preliminary European reckon on nuclear electric propulsion for space applications (RocketRoll) Sevecek JAKUB - OHB Czechspace - Czech	orbiter Kyun Ho LEE - Sejong University - South	250 - Quantification of molybdenum caused by grid erosion inside the plasma of a radio- frequency ion thruster Felix BECKER	028 - Setting Weld Quality Control Criteria for Space Propulsion Hardware David GILLIS - Airbus - United Kingdom	
		Germany 536 - CNES support on LOX/Methane	Chemical Technology - Germany 340 - A method for estimating the erosion	Normandie - France 279 - LARGE EDDY SIMULATION OF A	Zealand 373 - Development Status and	University - Morocco 596 - Influence of Catalytic Bed	Republic 116 - Development of a transient Nuclear	Korea 179 - Development and Characterization of	Justus-Liebig-University Giessen - Germany	510 - Testing of Additively Manufactured	
17:30	3	Prométheus development Lilian PREVOST - CNES - France	amount of EPDM based heat insulation inside the case of a solid rocket motor Rustu Gorkem YILMAZ - Roketsan Missiles Inc - Turkey	SUPERSONIC KEROSENE FLAME Florian KISSEL - CORIA - CNRS, Normandie Université, INSA de Rouen Normandie 76000 Rouen, France - France	Demonstration Test Results of the S25 Bi- Propellant Thruster Joel DECK - ArianeGroup GmbH - Germany	Configuration on the Unsteady Behavior of 500 mN HTP Thruster Angelo PASINI - University of Pisa - Italy	Space Reactor model for Nuclear Thermal Propulsion and Nuclear Electric Propulsion within EcosimPro/ESPSS. Shankara COELLO ESCOBAR - Empresarios Agrupados Internacional - Spain	Novel Static Water Fed Electrolyser for a Satellite Water Propulsion System Alexandros VIKAS - Institute of Space Systems - University of Stuttgart - Germany	Impedance Calculations in Gridded-Ion- Thrusters Edwin BELLER - Technische Hochschule Mittelhessen - Germany	Thruster Injectors involving Self-Pressurized Propellants Davide ZUIN - Politecnico di Milano - Italy	
17:50	4	162 - First Rocket Powered Flights of the Mk- II Aurora Spaceplane Using a 2.5 kN HTP- Kerosene Rocket Engine Ralph HUIJSMAN - Dawn Aerospace - The Netherlands	089 - An overview of thermal and ablation testing for high performance composite materials used as thermal protection systems for space propulsion applications Mathilde RIDARD - ArianeGroup - France	361 - NUMERICAL SIMULATION OF IGNITION AND FLAME KERNEL GROWTH WITHIN AN ANNULAR AEROSPIKE ENGINE Adheena Gana JOSEPH - Technische Universität Dresden - Germany	475 - Design Study and Sub-Scale Demonstrator Development for a 25-30 kN LOX / METHANE Aerospike Engine for Lunar Lander Application Florian DITSCHE - TUD Dresden University of Technology - Germany	014 - Pre-qualification of a Catalyst Bed for 420 N Green Bipropellant Engine Pawel SURMACZ - Lukasiewicz Research Network - Institute of Aviation - Poland	336 - Towards interplanetary journeys: Modelling of a NEP system with EcosimPro Enrico BRAGALLI - OHB System AG - Germany	434 - Evaluation of Transpiration Cooling for Hydrogen/Oxygen Thrusters in Water Electrolysis Propulsion Systems Sascha DENGLER Technical University of Munich - Germany	363 - Holistic modelling of erosion processes in radio-frequency ion thrusters Konstantin KEIL - Justus Liebig University Gießen - Germany	458 - Development of Chemical Milling Process for Stainless Steel alloy sheets Vidhya KARTHIKEYAN - Liquid Propulsion Systems Centre/ ISRO - India	
18:10	5	529 - Design, Manufacturing and Testing of a 6kN Green Throttleable Development Engine Bastien HÄMMERLI - Nammo Raufoss AS - Norway	034 - Tetrazene-based binding polymers as energetic ingredients for solid propulsion Chaza DARWICH - Université Claude Bernard Lyon1/LHCEP - France	429 - Multi-scale analysis of textural atomization in LOx-CH4 rocket engine subcritical flames Leonardo GEIGER - ONERA - France	264 - Design considerations for the development of two Bi-propellant Chemical Propulsion systems for the Mars Sample Return - Earth Return Orbiter James RICHARDSON - Airbus - United	516 - A Focus on the Chemistry of Non-Toxic Hypergolic Fuels Laura SMITH - Benchmark Space Systems - United States	462 - Status, challenges, and requirements for European thermonuclear propulsion system for space exploration Borja POZO - Tekniker - Spain	624 - Characterisation of a Cathode Vapour Feed Electrolyser in Vacuum Operation Juliusz SARYCZEW - European Space Agency The Netherlands	617 - Ion optics lifetime assessment of a 30 cm Ring-Cusp discharge chamber operated with xenon and krypton Oscar CASE - Mars Space Ltd - United Kingdom	471 - Additive Manufacturing in Electric Propulsion: Status and Perspectives with a Focus on Hall Thrusters Francesco MARCONCINI - University of Pisa - Italy	
18:30					Kingdom	END OF DAY 2					

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Johan STEELANT ES

08:30						1N to 30kN thrust, a journey into Alting, ArianeGroup GmbH, Germ				
		ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8	ROOM 9
		SESSION 37 Air Breathing Propulsion	SESSION 38 Hybrid Propulsion 1	SESSION 39 Thrust Chamber design 2	SESSION 40 Propellant Management for Chemical Propulsion I	SESSION 41 Chemical Propulsion Systems & Components	SESSION 42 Advanced Propulsion Concepts I	SESSION 43 Hall Thrusters Development & Qualification	SESSION 44 Micropropulsion I : development, qualification, in flight results	SESSION 45 Fluid Hammer in Flow Systems
Chair		Didier BOURY - ArianeGroup	Yann TALAMONI - EUROPROPULSION	Lilian PREVOST - CNES	Christopher HUNTER - ESA	Jordan MURRAY - URA Thrusters	Armin HERBERTZ - ESA	Davina DI CARA - ESA	Alberto GARBAYO - AVS	Johan STEELANT - ESA
09:20	1	110 - Progress of sub-scale flight tests plan with ATRIUM engine Yuki SAKAMOTO - ISAS/JAXA - Japan	041 - Advanced Hybrid Rocket Fuels Niklas WINGBORG - Swedish Defence Research Agency, FOI - Sweden	323 - Application of Thermal Barrier Coating on a Low-Pressure, Capacitively-Cooled GCH4/GOX Combustion Chamber Rahand DALSHAD - Technische Universität München - Germany		227 - Effect of annular gas on the process of conical liquid sheet breakup and atomization Pengjin CAO - National University of Defense and Technology - China	016 - Full Wave Impulse Drive Steven HAMPTON - Centrifugal Dynamics Company - United States	017 - PPS*X00 HET - On the final path towards the qualification of a subkilowatt- class thruster Claude-Martin BRITO - Safran Spacecraft Propulsion - France	048 - Development of a 1U module for Microsatellite-Friendly Multi-Purpose Propulsion System Hiroyoshi YASUHIRA - Tokyo Metropolitan university - Japan	190 - Fluid Hammer Phenomena in a Nitromethane-based Green Propellant in Hot Gas Test Runs Sebastian KLEIN - German Aerospace Center - Germany
09:40	2	497 - Enhancing the performance of solid- fuel dual scramjet through innovative design and numerical investigation Laurine HILLION - Hybrid Propulsion For Space - France	167 - Understanding Pressure Time Oscillations for CO2 Based Combustion in Hybrid Rockets Ozan KARA - Technology Innovation Institute United Arab Emirates	362 - Introduction of Topology Optimisation in Regenerative Cooling Channel Design within Liquid-Rocket Engines Jack TUFFT - University of Glasgow - United Kingdom	137 - Development of a Carbon Dioxide Cool Gas Generator for the pressurization of a blow down liquid propulsion system Berry SANDERS - HDES Service and Engineering B.V The Netherlands	259 - Surge Pressure Testing of Flight-Like Propulsion Components Wanyi NG - NASA - United States	094 - The Fusion Driven Rocket John SLOUGH - MSNW LLC - United States	103 - Summary of NASA Progress on the Development and Qualification of a 12-kW Hall-Effect, Solar Electric Propulsion Thruster Joel ROBINSON - NASA - United States	076 - Flight heritage and status of the ENPULSION propulsion systems: NANO, NANO R3/AR3 and MICRO David KREJCI - Enpulsion - Austria	386 - MODELLING OF FLUID HAMMER IN SPACECRAFT PROPULSION SYSTEM Korlam VAMSI KRISHNA - INDIAN SPACE RESEARCH ORGANISATION - India
10:00	3	534 - Development of a Compact Lightweight Micro-Channel Heat Exchanger (MCHX) for Reusable Launch Systems James REDMAN - TWI Ltd - United Kingdom	289 - Combustion in a Non-conventional Hybrid Rocket Engine: Lab-scale Testing of a Vortex Flow Pancake Valerio SANTOLINI - Politecnico di Milano - Italy	384 - Experimental Validation of Heat Damage Prevention of a Two-Row Pintle Injector Dokeun HWANG - Korea Aerospace Research Institute - South Korea	272 - Throttling Valve Design for Providing Control and Linear Adjustment of Thrust Level in Liquid Propellant Rocket Engines Kamil Yekta US - Roketsan Missiles Inc Turkey	366 - Characterisation of a Modular Acoustic Ignitor for Small In-Space Thrusters Jack COGHEN-BREWSTER - Protolaunch - United Kingdom	194 - Theoretical Fundamentals of Electromagnetic Inertia Manipulation Propulsion Hector BRITO - AIT - Argentina	160 - Development Testing on an Engineering Model of a 5 kW class Hall Effect Thruster Shekhar PANUGANTI - LPSC/ ISRO - India	093 - MicroThruster endurance test for LISA: preliminary results of a challenging trial on the thruster valve Francesco MANCINI - Leonardo SpA - Italy	437 - Analysis of Water Hammer Phenomenon using Method of Characteristics Mukul TIWARI - Indian Space Research Organisation - India
10:20	4	585 - Research Progress of a Deeply - Precooled Airbreathing Rocket Engine for Single Stage to Orbit Reusable Launch Vehicles Anna-Maria Theodora ANDREESCU - Romanian Research&Development Institute	325 - Advancements on Regenerative Cooling of Graphite Nozzle for Erosion Suppression Yuta MIYAHARA Hokkaido University - Japan	401 - Design and combustion characteristics of a single-row pintle injector in liquid rocket engine conditions Donghyuk KANG - KOREA AEROSPACE RESEARCH INSTITUTE - South Korea	453 - Space qualified Manual Ball Valve for on-ground operations Elisabeth FIRCHAU - Omnidea-RTG - Germany	447 - Preliminary experimental characterization results of a freely expanding 10 N bi-propellant thruster plume Leonie BUNTROCK - German Aerospace Center - Germany	420 - Experimental Tests of Propellant-less Thrust from Quantised Inertia Mike MCCULLOCH - University of Plymouth - United Kingdom	583 - Extended Throttling Range Characterization of the PPS*5000 Life Test Hall Thruster Olivier DUCHEMIN - Safran Spacecraft Propulsion - France	559 - MicroHETSat Electric Propulsion: In- Orbit Data Analysis Lucio TORRE - SITAEL - Italy	
10:40						COFFEE BREAK				
		SESSION 46 LRE Control	SESSION 47 Hybrid Propulsion 2	SESSION 48 Thrust Chamber - Modeling 3	SESSION 49 Propellant Management for Chemical Propulsion II	SESSION 50 Chemical Propulsion Systems & Components	SESSION 51 Advanced Propulsion Concepts II	SESSION 52 Hall Thruster Research & Development I	SESSION 53 Micropropulsion II	SESSION 54 Fluid Systems & Propellant Gauging
Chair		Gilles VIGIER - 3AF	Jérôme ANTHOINE - ONERA	Dirk SCHNEIDER - ESA	Stephen GOODBURN - AIRBUS	Jorge Ruiz TORRALBA - ESA	David PERIGO - ESA	Danylo SHCHERBAK - URA Thrusters	David KREJCI - ENPULSION	Markus PEUKERT - OHB
11:00	1	297 - Overview of Future Rocket Engine Control Systems Kai DRESIA - German Aerospace Center - Germany	284 - Numerical Modeling of Swirl Injection in Hybrid Rocket Engines Alessio SERENO - Sapienza University of Rome - Italy	320 - Numerical Simulation of the DLR LUMEN Thrust Chamber: Impact of Small Injection Asymmetry Clara MORRIS - DLR - Germany	478 - Designing the Orion-ESM propulsion feedline system: challenges in fluid transient modeling Cristiano BOMBARDIERI - Airbus Defense & Space GmbH - Germany	008 - Design, Test and Validation of Cavitating Venturi Element Using in LPRE Mehmet Can KÖSE - ROKETSAN Inc Turkey	066 - Power Supplies Design and Characterization for the Spherical Tokamak Thruster: A Novel High-Power Plasma Propulsion System Hamda AL-ALI - Imperial College London - United Kingdom	170 - Examining Hall Effect Thruster with Different Powers Ilksen BURAT - TUBITAK UZAY - Turkey	120 - Emission Characterization of Externally Wetted Electrospray Thrusters Using Computed Tomography David VILLEGAS-PRADOS - IENAI SPACE / UC3M - Spain	007 - Test and Validation of Pressure Fed Rocket Engine Test Stands Feedline Systems Ufuk KAYABASI - Roketsan Inc Turkey
11:20	2	315 - Stabilizing control design for liquid propelled rocket engines Jules GIBART - ONERA - France	408 - Experimental Investigation of Paraffin Combustion in a Small-Scale Hybrid Rocket Engine Riccardo GELAIN	338 - Deep convolutional autoencoders for data-driven models of rocket engine injectors Jose Felix ZAPATA USANDIVARAS - ISAE- SUPAERO - France	496 - Characterization of Throttle Flow Control Valve for 800N engine of Chandrayaan-3 mission Chinmoy MONDAL - INDIAN SPACE RESEARCH ORGANIZATION - India	009 - Development Of A Hydrazine Cavitating Flow Control Valve For Space Propulsion Application Francesco CIVERRA - Thales Alenia Space Italy - Italy	484 - A magnetic reconnection based thruster for high specific impulses space missions Giulia BECATTI - University of Stuttgart - Germany	229 - JAXA 1-kW Class Long-Life Hall Thruster System v800 Employing a Novel Ignition Mechanism Shinatora CHO - Japan Aerospace Exploration Agency - Japan	134 - Experimental Validation of Electrospray Thrusters Current Balancing for Spacecraft Charging Mitigation Francisco José BLÁZQUEZ-PLAZA - UNIVERSIDAD CARLOS III DE MADRID - Spain	072 - SMARTTS — An innovative propellant gauging technology using Electrical Capacitance Tomography Laurene DELSUPEXHE - European Space Agency - The Netherlands
			Université libre de Bruxelles - Belgium							
11:40	3	419 - From the first engine control evaluations to the Vinci application, the first European Engine numerically controlled in Flight Serge LE GONIDEC - ArianeGroup - France	Université libre de Bruxelles - Belgium 469 - Numerical activities on the paraffin- based fuel MTM in the framework of the PHAEDRA project Daniele CARDILLO - CIRA (Centro Italiano Ricerche Aerospaziali) - Italy	452 - Advanced combustion modelling for liquid rocket engine applications Alessio GIZZI - AVIO S.p.A - Italy	500 - Self-Pressurization Technology and Satellite Criticalities Simone LA LUNA - Politecnico di Milano - Italy	043 - Simulation of bi-propellant reaction control thrusters based on nitrous oxide and hydrocarbons Stefan FECHTER - German Aerospace Center- Germany	490 - Plasma brake for deorbiting telecommunication satellites Pyry PEITSO - Aurora Propulsion Technologies - Finland	592 - Miniaturization of Electric Propulsion Subsystems based on Hall-Effect Thruster Technology Norbert PILZ - BERLIN SPACE - Germany	251 - Cathode spots dynamics in a high- current Vacuum Arc Thruster Etienne MICHAUX - CNRS - France	105 - Development of a Fluid System and Simulator for Simultaneous High and Low Flowrates to Supply a Hollow Cathode and Cold Gas System for an Electrodynamic Tether Mission

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SESSION 55	SESSION 56	SESSION 57		CECCIONI EO	SESSION 60	CECCIONI C1	SESSION SO	CECCION C3
			SESSION 58	SESSION 59	3E33ION 60	SESSION 61	SESSION 62	SESSION 63
Plume & Aerodynamic effects evaluation	Propellant behavior - Modeling 1	Thrust Chamber design 3	Mission Scenarios for Exploration & Orbit Transfer Services I	Chemical Propulsion Systems & Components III	lodine Thrusters I	Hall Thruster Research & Development II	Micropropulsion III	Flow Systems for Electric Propulsion
Csaba JEGER - ESA	Emilio R GORDON - SWRI	Lilian PREVOST - CNES	Yann TALAMONI - EUROPROPULSION	Pedro HERRAIZ ALIJAS - ESA	Davina DI CARA - ESA	Danylo SHCHERBAK - URA Thrusters	David KREJCI - ENPULSION	Neil WALLACE - ESA
310 - Investigating the Plume-Surface-	096 - Addressing CFM Modeling Gaps for	312 - Influence of Flow Regimes on Nozzle	172 - Reference Missions, Mission Level	391 - Influence of Catalyst Composition on	031 - Development of low-power iodine-	020 - Utilisation of a Reconfigurable High-		097 - DEVELOPMENT OF A COMPACT XENON
Interaction on the Lunar Surface Using a	Application into NASA'S Future Cutting Edge	Throat Heat Transfer in a Capacitively Cooled		the Performance of a Throttled Bipropellant	fed Hall thruster propulsion system	Temperature Superconducting Magnet to	Miniaturized Resonance Igniter for CubeSats	
Coupled CFD-DSMC Approach	Missions	Thrust Chamber	Technologies for High Power Electric	Thruster	Alfin Emanuele VINCL ThroatMa France	Improve the Operational Efficiency and	Application	LOW-POWER HALL EFFECT THRUSTERS:
annis PETERSEN - TUD Dresden University of	of Wesley JOHNSON - NASA Glenn Research	Tobias STELZER - Technical University	Propulsion	Vincent Mario Pierre UGOLINI - Korea	Alfio Emanuele VINCI - ThrustMe - France	Throttlability of a Central-Cathode Electrostatic Thruster	Yonghun LEE - TU Darmstadt - Germany	DESIGN AND IN-FLIGHT DATA
Technology - Germany	Center - United States	Braunschweig - Germany	Nadim MARAQTEN - University of Stuttgart -	Advanced Institute of Science & Technology -		Electiostatic Hillaster		Matteo LATERZA - Aliena Pte Ltd - Singapore
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						Wellington - New Zealand		
565 - Aerothermal analysis of the RETPRO	334 - Liquid Propellant Dynamics in	423 - Investigation of Liquid Jet Into	183 - Optimal In-Space Manoeuvres Using		032 - Performance Mapping of the NPT30-I2	092 - A 2D Direct implicit particle-in-cell	337 - Design and test of thermal vacuum	211 - High Pressure Flow Control Units for
flight configuration	Microgravity Induced by Vertical Impact of	Crossflow for rectangular injection orifices in	Propulsion with Variable Specific Impulse	validated by the MMX system firing tests	Iodine-Propelled Thruster	method on non-orthogonal grids in Hall	chambers for testing of electric propulsion	Electric Propulsion Modules
Mariasole LAURETI - DLR - Germany	Landings on Martian Moon	green Liquid Rocket Engine application	Tianshu WANG - Applied Atomics Ltd	Yu DAIMON - Japan Aerospace Exploration	Antoine BORÉ - ThrustMe - France	thrusters	systems integrated in CubeSat	Thomas BRUS - AST Advanced Space
	Yusei YAHATA - Graduate School of	Michal RANACHOWSKI - Lukasiewicz	United Kingdom	Agency - Japan	,	Zhaoyu WANG - harbin institute of	Carsten SCHARLEMANN - FHWN - Austria	Technologies GmbH - Germany
	Engineering, The University of Tokyo - Japan	Research Network - Institute of Aviation -				technology - China		,
		Poland						
376 - A shock cell deformation due to a	390 - Sloshing modelling using OpenFOAM	486 - Numerical Analysis and Optimization of	222 - Adapting Elements of the Lunar	470 - Cold flow investigations of the	038 - Lifetime testing campaign of the iodine-	562 - Experimental investigation of the	427 - Design, developement and evaluation	305 - AIRBUS DEFENCE AND SPACE
perpendicular jet-jet interaction at a low-		an Additively Manufactured CuCrZr	Gateway Program for use as a Solar Electric	Impingement of a Liquid Jet on a Combustion	fed electric propulsion system	discharge current oscillations in Hall	of a Resistojet propulsion system for 6U	ELECTRICAL PROPULSION FLUIDIC CHAINS
pressure atmospheric condition	David VON RÜDEN - OHB System AG -	Combustion Chamber Using a Novel Cooling	Propulsion Mars Transit Vehicle	Chamber Wall for H2O2 film cooling		thrusters	cubesat	TRANSFORMATION ACHIEVEMENTS AND
D. TAMOUA	Germany	Channel Geometry to achieve high Cooling	Devid MANZELLA ALCA III III	Kanada Mariaccio, Rice di	Dmytro RAFALSKYI - ThrustMe - France	Olavarda DETRENICO C	Diseased DADEHAL 1/2 1/5 11 1	NEEDS
Ryo TAKIOKA		Performance	David MANZELLA - NASA - United States	Konstantin MANASSIS - DLR e.V Germany		Olexandr PETRENKO - Space Electric Thruster Systems - Ukraine	Djamal DARFILAL - Khalifa University - United Arab Emirates	Pablo LOPEZ - Airbus Defense & Space -
Osaka Institute of Technology - Japan	1	Lukas OPP - German Aerospace Center DLR -				Systems - Oktaine	Alab Ellillates	France
440 - CFD simulations of design and off-	485 - Numerical Investigation of Anti-	544 - Enhancing the combustion	491 - Roadmap to In-Space Transportation	476 - Helium Solubility Predictions based on	184 - iFACT-MP: Multi-kilowatt iodine	069 - RAPID PROTOTYPING OF LOW-CURENT	205 - DEVELOPMENT OF A 3D-PRINTED COLD	578 - Electric Propulsion Gas Systems
design stage separation in a space launcher	Sloshing Baffle Design for the CALLISTO	performance of a nanofluid fuel	Infrastructure to enable On-orbit servicing,	ESM1 flight data: A Reverse Engineering	electric propulsion development	THERMIONIC HOLLOW CATHODES USING	GAS PROPULSION SYSTEM FOR CUBESATS	,,,,,,,
through overset grids approach	Reusable Launch Vehicle Demonstrator	with AIH3 particles	Manufacturing and Assembly - OHB's vision	Approach		SEMI-EMPIRICAL SCALLING LAWS		Victor TEISSEDRE - Air Liquide - France
					Max VAUPEL - Airbus - Germany		Nathan Oscar ROSIMO - Philippine Space	
Alessia ASSONITIS	Lukas OPP - German Aerospace Center DLR - Germany	Wen AO - Northwestern Polytechnical University - China	Markus PEUKERT - OHB System AG - Germany	Jorge RUIZ TORRALBA - ESA - The Netherlands		George-Cristian POTRIVITU - Aliena Pte Ltd - Singapore	Agency - Philippines	
	Germany	Onversity - Chilla	Germany	vetilerianus		Siligapore		
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University La Sapienza - Italy		KEYNOTE SPE		COFFEE BREAK h Propulsion Activities at TU Dresd NMAR, Technische Universität Dres	. •	y Interactions		
SESSION 64	SESSION 65	SESSION 66	Prof. Martin TA	h Propulsion Activities at TU Dresd NMAR, Technische Universität Dres SESSION 68	sesden, Germany SESSION 69	SESSION 70	SESSION 71	SESSION 72
	SESSION 65 Propellant behavior - Modeling 2		Prof. Martin TA SESSION 67 Mission Scenarios for Exploration & Orbit	h Propulsion Activities at TU Dresd AJMAR, Technische Universität Dre	esden, Germany		SESSION 71 Micropropulsion IV	Development & Qual of Green Bipropellant
SESSION 64		SESSION 66	Prof. Martin TA	h Propulsion Activities at TU Dresd NMAR, Technische Universität Dres SESSION 68	sesden, Germany SESSION 69	SESSION 70		
SESSION 64 LRE modeling Fabrice MARTIN - ArianeGroup	Propellant behavior - Modeling 2 Emilio R GORDON - SWRI	SESSION 66 Thrust Chamber - Modeling 4 Dirk SCHNEIDER - ESA	Prof. Martin TA SESSION 67 Mission Scenarios for Exploration & Orbit Transfer Services II Helmut CIEZKI - DLR	h Propulsion Activities at TU Dresd AJMAR, Technische Universität Dres SESSION 68 Chemical Propulsion Systems & Components IV Stephen GOODBURN - AIRBUS	SESSION 69 Iodine & alternative Propellant Thrusters Davina DI CARA - ESA	SESSION 70 Hollow Cathodes Simone CIARALLI - OHB	Micropropulsion IV Alberto GARBAYO - AVS	Development & Qual of Green Bipropellant Thrusters Jordan MURRAY - URA Thrusters
SESSION 64 LRE modeling Fabrice MARTIN - ArianeGroup 436 - Toolkit for Liquid Rocket Propulsion	Propellant behavior - Modeling 2 Emilio R GORDON - SWRI 261 - Numerical Analysis on Flow Boiling in	SESSION 66 Thrust Chamber - Modeling 4 Dirk SCHNEIDER - ESA 237 - Overview of CFD modelling activities on	Prof. Martin TA SESSION 67 Mission Scenarios for Exploration & Orbit Transfer Services II Helmut CIEZKI - DLR	h Propulsion Activities at TU Dresde AMAR, Technische Universität Dresde SESSION 68 Chemical Propulsion Systems & Components IV Stephen GOODBURN - AIRBUS 203 - Development of the Propulsion System	SESSION 69 Iodine & alternative Propellant Thrusters Davina DI CARA - ESA 206 - Development of NPT30 iodine ion	SESSION 70 Hollow Cathodes Simone CIARALLI - OHB 068 - DEVELOPMENT OF HOLLOW	Micropropulsion IV Alberto GARBAYO - AVS 577 - Development of the Engineering Model	Development & Qual of Green Bipropellant Thrusters Jordan MURRAY - URA Thrusters 365 - Development of a 20N GOX/GH2
SESSION 64 LRE modeling Fabrice MARTIN - ArianeGroup	Propellant behavior - Modeling 2 Emilio R GORDON - SWRI 261 - Numerical Analysis on Flow Boiling in Microgravity with Subgrid-Scale Wall Boiling	SESSION 66 Thrust Chamber - Modeling 4 Dirk SCHNEIDER - ESA	Prof. Martin TA SESSION 67 Mission Scenarios for Exploration & Orbit Transfer Services II Helmut CIEZKI - DLR 371 - CubeSat missions – reloaded	h Propulsion Activities at TU Dresde AJMAR, Technische Universität Dresde SESSION 68 Chemical Propulsion Systems & Components IV Stephen GOODBURN - AIRBUS 203 - Development of the Propulsion System for the COPERNICUS missions CRISTAL and	SESSION 69 Iodine & alternative Propellant Thrusters Davina DI CARA - ESA 206 - Development of NPT30 iodine ion thruster from conception to mass	SESSION 70 Hollow Cathodes Simone CIARALLI - OHB 068 - DEVELOPMENT OF HOLLOW CATHODES FOR HALL EFFECT THRUSTERS AT	Micropropulsion IV Alberto GARBAYO - AVS 577 - Development of the Engineering Model for a Modular HTP-based CubeSat Propulsion	Development & Qual of Green Bipropellant Thrusters Jordan MURRAY - URA Thrusters
SESSION 64 LRE modeling Fabrice MARTIN - ArianeGroup 436 - Toolkit for Liquid Rocket Propulsion System Design	Propellant behavior - Modeling 2 Emilio R GORDON - SWRI 261 - Numerical Analysis on Flow Boiling in	SESSION 66 Thrust Chamber - Modeling 4 Dirk SCHNEIDER - ESA 237 - Overview of CFD modelling activities on DLR BKN combustion chamber	Prof. Martin TA SESSION 67 Mission Scenarios for Exploration & Orbit Transfer Services II Helmut CIEZKI - DLR	h Propulsion Activities at TU Dresde AMAR, Technische Universität Dresde SESSION 68 Chemical Propulsion Systems & Components IV Stephen GOODBURN - AIRBUS 203 - Development of the Propulsion System	SESSION 69 Iodine & alternative Propellant Thrusters Davina DI CARA - ESA 206 - Development of NPT30 iodine ion	SESSION 70 Hollow Cathodes Simone CIARALLI - OHB 068 - DEVELOPMENT OF HOLLOW CATHODES FOR HALL EFFECT THRUSTERS AT ALIENA: DESIGN, GROUND TESTING AND IN-	Micropropulsion IV Alberto GARBAYO - AVS 577 - Development of the Engineering Model	Development & Qual of Green Bipropellant Thrusters Jordan MURRAY - URA Thrusters 365 - Development of a 20N GOX/GH2 Thruster for IOSM Applications
SESSION 64 LRE modeling Fabrice MARTIN - ArianeGroup 436 - Toolkit for Liquid Rocket Propulsion	Propellant behavior - Modeling 2 Emilio R GORDON - SWRI 261 - Numerical Analysis on Flow Boiling in Microgravity with Subgrid-Scale Wall Boiling	SESSION 66 Thrust Chamber - Modeling 4 Dirk SCHNEIDER - ESA 237 - Overview of CFD modelling activities on	Prof. Martin TA SESSION 67 Mission Scenarios for Exploration & Orbit Transfer Services II Helmut CIEZKI - DLR 371 - CubeSat missions – reloaded	h Propulsion Activities at TU Dresde AJMAR, Technische Universität Dresde SESSION 68 Chemical Propulsion Systems & Components IV Stephen GOODBURN - AIRBUS 203 - Development of the Propulsion System for the COPERNICUS missions CRISTAL and	SESSION 69 Iodine & alternative Propellant Thrusters Davina DI CARA - ESA 206 - Development of NPT30 iodine ion thruster from conception to mass	SESSION 70 Hollow Cathodes Simone CIARALLI - OHB 068 - DEVELOPMENT OF HOLLOW CATHODES FOR HALL EFFECT THRUSTERS AT	Micropropulsion IV Alberto GARBAYO - AVS 577 - Development of the Engineering Model for a Modular HTP-based CubeSat Propulsion	Development & Qual of Green Bipropellant Thrusters Jordan MURRAY - URA Thrusters 365 - Development of a 20N GOX/GH2
SESSION 64 LRE modeling Fabrice MARTIN - ArianeGroup 436 - Toolkit for Liquid Rocket Propulsion System Design	Propellant behavior - Modeling 2 Emilio R GORDON - SWRI 261 - Numerical Analysis on Flow Boiling in Microgravity with Subgrid-Scale Wall Boiling Model	SESSION 66 Thrust Chamber - Modeling 4 Dirk SCHNEIDER - ESA 237 - Overview of CFD modelling activities on DLR BKN combustion chamber Jan VAN SCHYNDEL - German Aerospace	Prof. Martin TA SESSION 67 Mission Scenarios for Exploration & Orbit Transfer Services II Helmut CIEZKI - DLR 371 - CubeSat missions – reloaded	h Propulsion Activities at TU Dresda AJMAR, Technische Universität Dresda SESSION 68 Chemical Propulsion Systems & Components IV Stephen GOODBURN - AIRBUS 203 - Development of the Propulsion System for the COPERNICUS missions CRISTAL and LSTM	SESSION 69 Iodine & alternative Propellant Thrusters Davina DI CARA - ESA 206 - Development of NPT30 iodine ion thruster from conception to mass production. Elena ZORZOLI ROSSI	SESSION 70 Hollow Cathodes Simone CIARALLI - OHB 068 - DEVELOPMENT OF HOLLOW CATHODES FOR HALL EFFECT THRUSTERS AT ALIENA: DESIGN, GROUND TESTING AND IN-	Micropropulsion IV Alberto GARBAYO - AVS 577 - Development of the Engineering Model for a Modular HTP-based CubeSat Propulsion System	Development & Qual of Green Bipropellant Thrusters Jordan MURRAY - URA Thrusters 365 - Development of a 20N GOX/GH2 Thruster for IOSM Applications Jack COGHEN-BREWSTER - Protolaunch -
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GALA DINNER

Awards Ceremony

STARTUP CONTEST

13:50

Chair

15:10

15:30

15:50

16:10

16:30

16:50

Chair

17:30

17:50

18:30

18:50

19:30

THURSDAY 23 MAY 2024 // DAY 4

08:30				KEYNOTE SPEECH #5:	Prof KASAHARA (Nagaya Universi	ty) presentation on rotating deton	nation engine - followed by ESA an	nouncement on IP-CCI		
		ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8	ROOM 9
		SESSION 73	SESSION 74	SESSION 75	SESSION 76	SESSION 77	SESSION 78	SESSION 79	SESSION 80	SESSION 81
		Turbo pumps 1	Propellant feed system & tanks	LRE Ignition Systems & Effect	Chemical Propulsion for Cargo & Exploration Missions	Propellant Tanks	Novel Technological Solutions for Propulsion Systems I	Plasma Modelling I	Development & Qual of Green Monopropellant Thrusters I	Innovative Propulsion for sustainable access to Space and in-Space transportation 1
Chain	1	MAVALEC DACCALILE AVIATION	Facilia D CORDON CAMBI	Ciller VICIED 2AF		Christopher IIIINITED ECA		Device of ZITOUNI, OUR		
Chair		Marc VALES - DASSAULT AVIATION	Emilio R GORDON - SWRI	Gilles VIGIER - 3AF	Stephen GOODBURN - AIRBUS	Christopher HUNTER - ESA	Cristina DE PERSIS - ESA	Bayrem ZITOUNI - OHB	Wilhelm DINGERTZ - ECAPS	Nathalie GIRARD - CNES
		635 - Concept of an ultracompact LCH4/LOX turbopump for a 30KN upper stage	367 - Spray Heat Transfer Experiments for Cryogenic Tank Cooling in a Zero-Boil-Off	140 - PROMETHEUS LOW-COST METHANE TORCH IGNITION SYSTEM DEVELOPMENT	554 - Development and future of HTV-X Propulsion System	148 - QUALIFICATION OF DEMISABLE PROPELLANT TANK DT-180	370 - Simulation of Orbital Maneuvers with a Passive Zero-Boil-Off System	108 - Numerical simulation of the plasma acceleration process of applied-field MPD	021 - 20N class thrusters with HNP safe green monopropellant for small satellite	047 - Propulsion solutions for long term sustainability of Space operations
			System	STATUS AND TEST RESULTS				thrusters	propulsion systems	
09:20	1	Alexandru-Claudiu CANCESCU - National Research and Development Institute for Gas	Felix SCHILY - DeltaOrbit GmbH - Germany	Rudi MATTHIJSSEN - Aerospace Propulsion	Ayano IIDA - JAXA - Japan	Mohamad EL ATRACH - ArianeGroup GmbH - Germany	Felix SCHILY - DeltaOrbit GmbH - Germany	Zhaoning ZHANG - Harbin Institute of	Shinji IGARASHI	Christophe BONNAL - CNES - France
		Turbines COMOTI - Romania	Tellin Serial Se	Products (A.P.P.) B.V The Netherlands		ce.ma,		Technology - China	5J. 167.11.157.11	
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		568 - Design of a Methane Turbopump Impeller	560 - Model-based analysis of heat and mass transfer in cryogenic storage measurements	245 - Plasma Breakdown Laser Ignition Applied to a 100 kN LOX/Methane Gas	159 - Propulsion System Solutions for Lunar Landers and Spacecrafts	157 - Propellant Tank Developments and Trends of ArianeGroup Orbital Propulsion –	010 - EPFB: Electric Pump fed supply for GEO satellite bi-propellant chemical propulsion	139 - Self-consistent Coupling of Fluid and PIC Codes	067 - Design optimization of green monopropellant thruster for chugging	291 - Ice2Thrust: An end-to-end demonstration of the in-situ resource
				Generator		The past 10 Years	systems		instability reduction using reduced-	utilization of water for in-space propulsion
09:40	2	Christopher GROLL - Deutsches Zentrum für Luft- und Raumfahrt - Germany	Pedro Afonso MARQUES - von Karman Institute for Fluid Dynamics - Belgium	Sebastian SOLLER	Timo KRONE - ArianeGroup GmbH - Germany	Timo KRONE - ArianeGroup GmbH -	Marta Pia TANGARO	Willem VAN LYNDEN - Bologna University - Italy	order models	Sören HEIZMANN - Technical University of
		zan ana naamame semian,	institute for thata by names beignam	Sepastian Societies	German,	Germany		1.0.,	Sukmin CHOI - Korea Advanced Institute of	
				ArianeGroup - Germany			TAS-I - Italy		Science and Technology - South Korea	
		449 - Commissioning of DLR's Modular Turbopump Test Bench	584 - Thermal and functional technologies for the next generation reusable launchers	339 - Design and experimental investigation of an optical fibre based ignition system for	099 - System Firing Test for the Propulsion System for the MMX Program	225 - Overview of LMO Propellant Tank Product Range	121 - Benefits and suitability of a pump-fed hydrazine propulsion system for space	175 - A self-consistent gradient-drift instability model of anomalous electron	342 - Design and Performance Evaluation of a 5 N ADN-based Green Monopropellant	631 - ISRU hydrogen engine for sustainable planetary exploration
			LOX/LCH4 cryogenic tanks	space propulsion systems			applications	transport in the magnetic nozzle	Thruster with Low-Temperature Hydrazine	
10:00	3	Christopher GROLL - Deutsches Zentrum für Luft- und Raumfahrt - Germany	Sébastien BIANCHI - Air Liquide Advanced	Michael BÖRNER - DLR - Germany	Takuma KATO - IHI Aerospace - Japan	Marcos PEREZ - LMO - United Kingdom	Andrea BINCI - Thales Alenia Space - Italy	Shaun ANDREWS - Univeristy of Bologna -	Catalyst	Baker ADAM - Rocket Engineering Ltd - United Kingdom
		East and radinative derinary	Technologies - France	Michael Bonnett Ben Germany			Andrea Biver Thates Alema Space Italy	United Kingdom	Burak Onur EKICI - ROKETSAN Inc Turkey	onicea kingaoni
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		213 - Tests on Active Axial Thrust Balancing System of a Pump for a Liquid Rocket Engine	360 - BRAIDED BELLOW STIFFNESS MODELLING	117 - Thermal and Acoustic Experimental Characterization of Launch Pads During	075 - Use of the Nammo LEROS 2b Apogee Engine for the Mars Sample Return Mission	569 - Towards environmentally benign propellant tank manufacturing	269 - Applicability of an Electric Pump-fed Cycle Engine for Satellite Thruster	265 - Optimizing Global Plasma Models: Incorporating Electron Energy Density	407 - Development and Testing of a 1N Additively Manufactured Green	192 - Use of the Earth Atmosphere Remnants as Electric Thruster Propellant in
				Launcher Ignition and Elevation				Function for Enhanced Thruster	Monopropellant Micro-Thruster	ISRU Technology
10:20	4	Soonsam HONG - Korea Aerospace Research Institute - South Korea	Pierre-Loup SCHAEFER - ArianeGroup - France	Nicolas PELLETIER - ONERA - France	Robert WESTCOTT - Nammo UK Ltd - United Kingdom	Samruddha KOKARE - NOVA University Lisbon - Portugal	Junghun SON - Chungnam National University - South Korea	Development Efficiency	Suood ALNAQBI - Khalifa University - United	Konstantinos KATSONIS
		institute South No. ed	1.0.1.00	I STATE OF THE STA		Essen Terrage.	Conversity South Novel	Philip PETERS - Technische Hochschule	Arab Emirates	Kenstantines Williams
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			SESSION 83	SESSION 84	SESSION 85	SESSION 86	SESSION 87	SESSION 88	SESSION 89	SESSION 90
		Turbo pumps 2	Aerospike design and tests	Tests Facilities & Platforms	SESSION 85 Artemis I - Orion Propulsion	SESSION 86 Propellant Tanks & Storability	Novel Technological Solutions for Propulsion	SESSION 88 Microwave & RF Thrusters	Development & Qual of Green	Innovative Propulsion for sustainable access
Chair		Turbo pumps 2	Aerospike design and tests	Tests Facilities & Platforms	Artemis I - Orion Propulsion	Propellant Tanks & Storability	Novel Technological Solutions for Propulsion Systems II	Microwave & RF Thrusters	Development & Qual of Green Monopropellant Thrusters II	Innovative Propulsion for sustainable access to Space and in-Space transportation 2
Chair				Tests Facilities & Platforms Yann TALAMONI - EUROPROPULSION	Artemis I - Orion Propulsion Pedro HERRAIZ ALIJAS - ESA	Propellant Tanks & Storability Christopher HUNTER - ESA	Novel Technological Solutions for Propulsion Systems II Victor FERNANDEZ VILLACE - ESA	Microwave & RF Thrusters Olivier DUCHEMIN - Safran	Development & Qual of Green Monopropellant Thrusters II Helmut CIEZKI - DLR	Innovative Propulsion for sustainable access to Space and in-Space transportation 2 Nathalie GIRARD - CNES
Chair		Turbo pumps 2 Lilian PREVOST - CNES 030 - Virtual Sensing for Fault Detection within the LUMEN Fuel Turbopump Test	Aerospike design and tests Didier BOURY - ArianeGroup 378 - Simulation of an Aerospike Nozzle Performance under an Altitude Chamber	Tests Facilities & Platforms	Artemis I - Orion Propulsion Pedro HERRAIZ ALIJAS - ESA 142 - The Orion-ESM propulsion system: About Artemis I performance and future	Propellant Tanks & Storability	Novel Technological Solutions for Propulsion Systems II Victor FERNANDEZ VILLACE - ESA 090 - Design, Manufacture and Characterisation of an Electric Propulsion	Microwave & RF Thrusters Olivier DUCHEMIN - Safran 027 - Investigation of the correlation between microwave coupling and thrust on	Development & Qual of Green Monopropellant Thrusters II Helmut CIEZKI - DLR 413 - Development of ILT-1 up to TRL7: 1N Monopropellant Thruster Using 98%	Innovative Propulsion for sustainable access to Space and in-Space transportation 2 Nathalie GIRARD - CNES 133 - Development and Roadmap of the Ouroboros Programme Hybrid Autophage
		Turbo pumps 2 Lilian PREVOST - CNES 030 - Virtual Sensing for Fault Detection	Aerospike design and tests Didier BOURY - ArianeGroup 378 - Simulation of an Aerospike Nozzle	Tests Facilities & Platforms Yann TALAMONI - EUROPROPULSION 364 - Spectral Mass Gauging experiment aboard a suborbital rocket	Artemis I - Orion Propulsion Pedro HERRAIZ ALIJAS - ESA 142 - The Orion-ESM propulsion system:	Propellant Tanks & Storability Christopher HUNTER - ESA 238 - Fracture Mechanics Testing of Titanium 6AI-4V in LMP-103S Propellant	Novel Technological Solutions for Propulsion Systems II Victor FERNANDEZ VILLACE - ESA 090 - Design, Manufacture and Characterisation of an Electric Propulsion Thruster for Space, Low Earth Orbit, Very	Microwave & RF Thrusters Olivier DUCHEMIN - Safran 027 - Investigation of the correlation	Development & Qual of Green Monopropellant Thrusters II Helmut CIEZKI - DLR 413 - Development of ILT-1 up to TRL7: 1N	Innovative Propulsion for sustainable access to Space and in-Space transportation 2 Nathalie GIRARD - CNES 133 - Development and Roadmap of the Ouroboros Programme Hybrid Autophage Propulsion System for Rapid Low-Earth Orbit
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	1 2	Lilian PREVOST - CNES 030 - Virtual Sensing for Fault Detection within the LUMEN Fuel Turbopump Test Campaign Eldin KURUDZIJA - German Aerospace Center (DLR) - Germany 300 - LUMEN: Validation of a Thermal Model for the LUMEN Oxygen Turbopump Max Axel MÜLLER - German Aerospace	Aerospike design and tests Didier BOURY - ArianeGroup 378 - Simulation of an Aerospike Nozzle Performance under an Altitude Chamber Operating Conditions Juan Sebastian SERRATO ORTIZ - RMIT University - Australia	Tests Facilities & Platforms Yann TALAMONI - EUROPROPULSION 364 - Spectral Mass Gauging experiment aboard a suborbital rocket Sara Cecilia ABECIA-HERNANZ - UPC-BarcelonaTech - Spain	Artemis I - Orion Propulsion Pedro HERRAIZ ALIJAS - ESA 142 - The Orion-ESM propulsion system: About Artemis I performance and future evolutions Jan-Hendrik MEISS - Airbus Defense & Space GmbH - Germany 382 - Artemis I Orion ESM Propulsion System Engine Performance	Propellant Tanks & Storability Christopher HUNTER - ESA 238 - Fracture Mechanics Testing of Titanium 6Al-4V in LMP-103S Propellant Henry MULKEY - NASA GSFC - United States 104 - Challenges in reusage of refurbished Propellant tank in Chandrayaan-2: Lander	Novel Technological Solutions for Propulsion Systems II Victor FERNANDEZ VILLACE - ESA 090 - Design, Manufacture and Characterisation of an Electric Propulsion Thruster for Space, Low Earth Orbit, Very Low Earth Orbit, and Terrestrial Applications Guy PETERS - Quanta Engineering Ltd - United Kingdom 191 - TETRA propulsion module coupling test	Microwave & RF Thrusters Olivier DUCHEMIN - Safran 027 - Investigation of the correlation between microwave coupling and thrust on the example of two thruster concepts Clara SCHAEFER - German Aerospace Center Germany 235 - Characterization of an RF-neutralizer	Development & Qual of Green Monopropellant Thrusters II Helmut CIEZKI - DLR 413 - Development of ILT-1 up to TRL7: 1N Monopropellant Thruster Using 98% Hydrogen Peroxide Adrian PARZYBUT - Lukasiewicz Research Network - Institute of Aviation - Poland 451 - Topology Optimization for ECAPS HPGP	Innovative Propulsion for sustainable access to Space and in-Space transportation 2 Nathalie GIRARD - CNES 133 - Development and Roadmap of the Ouroboros Programme Hybrid Autophage Propulsion System for Rapid Low-Earth Orbit Access Krzysztof BZDYK - University of Glasgow - United Kingdom
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Imperial College London - Electric Propulsion Farbod FARAII - Imperial College London - 100	Microwave & RF Thrusters Olivier DUCHEMIN - Safran 027 - Investigation of the correlation between microwave coupling and thrust on the example of two thruster concepts Clara SCHAEFER - German Aerospace Center Germany 235 - Characterization of an RF-neutralizer for air-breathing electric propulsion Jana ZORN - Justus-Liebig-University - Germany 244 - Searching for ExB Plasma Instabilities inside the Capacitively Coupled Magnetic Nozzle CSTAR Luca HENRICH - University of Applied Sciences - Germany 290 - Development of RF Plasma Thruster for Space Enabling Technologies at DLR Yung-An CHAN - German Aerospace Center (DLR) - Germany 153 - Numerical simulation of a low-pressure electrodeless ion source intended for air-breathing electric propulsion Marek STASTNÝ - PlasmaSolve s.r.o Czech	Development & Qual of Green Monopropellant Thrusters II Helmut CIEZKI - DLR 413 - Development of ILT-1 up to TRL7: 1N Monopropellant Thruster Using 98% Hydrogen Peroxide Adrian PARZYBUT - Lukasiewicz Research Network - Institute of Aviation - Poland 451 - Topology Optimization for ECAPS HPGP Thrusters Olle WAHLQUIST - ECAPS AB - Sweden 563 - ECAPS - 1 N and 5 N HPGP thruster development and testing. Wilhelm DINGERTZ - ECAPS AB - Sweden 292 - Preliminary Results of an Ignition and Combustion Test Series with a Nitromethane based Green Monopropellant Maxim KURILOV - DLR Deutsches Zentrum für Luft- und Raumfahrt - Germany 604 - Nitrous oxide monopropellant thrusters, Reloaded.	Innovative Propulsion for sustainable access to Space and in-Space transportation 2 Nathalie GIRARD - CNES 133 - Development and Roadmap of the Ouroboros Programme Hybrid Autophage Propulsion System for Rapid Low-Earth Orbit Access Krzysztof BZDYK - University of Glasgow - United Kingdom 255 - Towards the development of Ambre: the first hybrid autophage engine Martin GROS - ALPHA IMPULSION - France 421 - Towards Greener Propulsion: A Roadmap for Environmental Categorization of Liquid In-Space Propulsion Systems via Life Cycle Analysis Lily BLONDEL-CANEPARI - Università di Pisa - Italy 383 - Electromagnetic Soliton Generator Propulsion Capability Estimates David HAWKINS - Smokey Hawk - United States 545 - Design-for-Demise of a Smart Tank Concept for Upper Stages of Small Launchers
11:40	2	Lilian PREVOST - CNES 030 - Virtual Sensing for Fault Detection within the LUMEN Fuel Turbopump Test Campaign Eldin KURUDZIJA - German Aerospace Center (DLR) - Germany 300 - LUMEN: Validation of a Thermal Model for the LUMEN Oxygen Turbopump Max Axel MÜLLER - German Aerospace Centre (DLR) - Germany 450 - Influence of the structural damping on the stability of a labyrinth gas seal Yvon BRIEND - ArianeGroup - France 625 - Stator-Rotor Performance Optimization Methodology For Full Impulse Partial Admission Supersonic Turbine Design Robson HAHN - German Aerospace Center - Germany 035 - Machine Learning Applied to Turbine Inlet Manifold Instrumentation Sarah KRAMER - ArianeGroup GmbH -	Aerospike design and tests Didier BOURY - ArianeGroup 378 - Simulation of an Aerospike Nozzle Performance under an Altitude Chamber Operating Conditions Juan Sebastian SERRATO ORTIZ - RMIT University - Australia 533 - Interactions Between Shock Waves and a Secondary Jet on a Truncated Aerospike with Varying Truncation Radii Andrew WILSON - 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PLENARY ROUND TABLE #5: Green advanced propellants – How can they get quicker into service?

Moderator : Helmut CIEZKI - DLR, Institute of Space Propulsion

Patrick VAN PUT, Bradford Space - Ulrich GOTZIG, ArianeGroup - Ferran VALENCIA BEL, ESA-ESTEC - Christian PARAVAN, Politecnico di Milano - Adam OKNINSKI, Łukasiewicz Institute of Aviation

		SESSION 91	SESSION 92	SESSION 93	SESSION 94	SESSION 95	SESSION 96	SESSION 97	SESSION 98	SESSION 99
		Propulsion Systems with Electrical pumps	Nozzle	Thrust Chamber - Tests 1	Refueling & Lunar Lander Propulsion Systems	Propellant Sloshing	Alternative green propellants	Plasma Modelling II	Testing of Chemical Thrusters with Green Propellants	Detonation Engines 1
Chair		Gilles VIGIER - 3AF	Lilian PREVOST - CNES	Bertrand KLEIN - ESA	Markus PEUKERT - OHB	Stefan GREGUCCI - SITAEL	Wilhelm DINGERTZ - ECAPS	Bayrem ZITOUNI - OHB	Jordan MURRAY - URA Thrusters	Gerard ORDONNEAU - ONERA
15:10	1	331 - E-PUMP CONCEPT FOR DIVERSE MEDIA AND ITS APPLICABILITY IN ORBITAL REFILLING SYSTEM Lorenz PAK - deltaVision GmbH - Germany	196 - Experimental Study on the Effect of Chevrons on Flow Separation in Rocket Nozzles Ralf STARK German Aerospace Center - Germany	Experimental study on the combustion performance of liquid oxygen/methane thrust chamber for pintle injector Ziguang LI - National University of Defense Technology - China	056 - Cooperation with ispace on the HAKUTO-R Lunar Lander Propulsion System Timo KRONE - ArianeGroup GmbH - Germany	417 - Numerical and experimental evaluation of the effect of propellant acquisition system in the propellant tanks on its slosh behaviour for control stability studies for a Lunar lander mission Sarath Chandran NAIR S - INDIAN SPACE	145 - HYDRAZINE-BASED GREEN MONOPROPELLANT BLENDS Robert MASSE L3Harris - Aerojet Rocketdyne - United States	445 - Two-Dimensional Cylindrical Electrostatic Particle-in-Cell Simulation of a Halo Thruster Junjie LIU - Imperial College London - United Kingdom	341 - Performance testing of 1N hydrogen peroxide thruster at fotec propulsion test facilities Varun Reddy NANDYALA - FOTEC GmbH - Austria	039 - Exploring the Sustainability of Pulsed Detonation in Hydrogen-Air and Hydrogen- Oxygen Mixtures Andrei COJOCEA - NRDI - COMOTI - Romania
15:30	2	368 - Design and development of pumps for an electrical-pump fed engine Leonard BONGIOVANNI - EPFL Rocket Team - Switzerland	328 - Expansion-Deflection Nozzle Design and Performance Optimization for Upper- Stage Applications Felix WEBER - Sapienza University of Rome - Italy	613 - Water Flow Testing a Pintle Injector for 6kN Lunar Descent Engine Preetham MADDALI VENKATA LAKSHMI - Nammo Raufoss AS - Norway	073 - Development and Operation Results of SLIM (Smart Lander for Investigating Moon) Propulsion System Keisuke MICHIGAMI - JAXA - Japan	582 - Non-Isothermal Sloshing for Space Applications: Experimental Characterisation under Reduced Gravity Conditions Francisco MONTEIRO - von Karman Institute for fluid dynamics - Portugal	369 - Industry update on the fastest growing propellant for In-Space Propulsion – Nitrous Oxide. Stefan POWELL - Dawn Aerospace - New Zealand	506 - EP Plasma Plume in Orbit: Analysis and Experimental Correlation Zoe ANGELOW - OHB System AG - Germany	348 - HIM_30: Hot-Firing Tests and Characterization of a Green Hypergolic Propellant based on Ionic Liquids and Hydrogen Peroxide Sophie RICKER - German Aerospace Center (DLR) - Germany	214 - Design and Testing of a hydrogen- oxygen Predetonator for Rotating Detonation Engines Wolfgang ARMBRUSTER - German Aerospace Center (DLR), Institute of Space Propulsion - Germany
15:50	3	537 - The Development of E-pump Prototypes for Next-Generation Space Turbomachinery Dario Alessandro BRUNA - DBSpace S.r.l Italy	349 - Investigations on the influence of shock structure on shear layer unsteadiness in a contoured dual throat nozzle system Abhilash NARAYAN - Liquid Propulsion Systems Centre - India	455 - Hot gas tests of a Laser Powder Bed Fusion manufactured 25 kN LOX/LNG regeneratively cooled thrust chamber produced from CuCrZr- copper alloy Dmitry SUSLOV - Institute of Space Propulsion, German Aerospace Center -	186 - Fluidic Testing of an In-Orbit Monopropellant Refuelling System Isheeta RANADE - Thales Alenia Space - United Kingdom	638 - Using Finite Element Techniques to Rapidly Create Slosh Analog Models for Arbitrary Geometries Nathan ANDREWS - Southwest Research Institute - United States	374 - Investigation of Alternative Green Fuels for Chemical Bipropellant Propulsion Systems Ahmet Nihat KARCI - University of Southampton - United Kingdom	636 - DSMC modelling of the neutral flow through a hollow cathode Stephen GABRIEL - University of Southampton - United Kingdom	474 - Testing challenges & mitigation plan for ADN based monopropellant thrusters Yaswanth Ram G - Indian Space Research Organization - India	Detonation Combustion (RDC) for Rocket Engine Applications Florian DITSCHE - TUD Dresden University of Technology - Germany
16:10		600 - Design, development, and tests of the E Pumps for the RELIANCE engine Jiri KOZAK - Inpraise systems - Czech Republic	5/6 - Numerical Analysis of Methane-Oxygen Liquid Rocket Engine Nozzle Performance with Finite-Rate Chemical Kinetics Marco GROSSI - Sapienza, University of Rome - Italy	392 - Outflow measurements on sintered porous injector elements Markus SELZER - German Aerospace Center - Germany	626 - Orbit Fab Refuelling Interface Development Activities in Europe Sebastian HILL - Orbit Fab Ltd - United Kingdom		461 - A review of green hydrazine development Eric CARDIFF - NASA - United States	176 - Modelling cathode-less thruster based atmosphere-breathing electric propulsion systems Nabil SOUHAIR - Alma Mater Studiorum - Università di Bologna - Italy	489 - Test results of a film cooled 200 N hypergolic green propellant thruster using hydrogen peroxide as coolant Philipp TEUFFEL - German Aerospace Center e.V. (DLR) / Institute of Space Propulsion - Germany	285 - Experimental study and data analysis methods of a subscale Rotating Detonation Engine fed with gaseous H2-O2 Ewen BARD - ONERA - The French Aerospace Lab - France
16:30						COFFEE BREAK				
16:30		SESSION 100	SESSION 101	SESSION 102	SESSION 103	COFFEE BREAK SESSION 104	SESSION 105	SESSION 106	SESSION 107	SESSION 108
16:30		SESSION 100 Operations	SESSION 101 LRE Components Manufacturing	SESSION 102 Thrust Chamber - Tests 2	SESSION 103 Propulsion in the Spacecraft Design Process		SESSION 105 Green Propellant Chemical Propulsion Systems	SESSION 106 Solid & Hybrid Propulsion Systems	SESSION 107 Cold Gas Thrusters	SESSION 108 Detonation Engines 2
16:30						SESSION 104	Green Propellant Chemical Propulsion			
	1	Operations	LRE Components Manufacturing Yohann TORRES - ESA 274 - Green-laser additive manufacture of a	Thrust Chamber - Tests 2	Propulsion in the Spacecraft Design Process	SESSION 104 Pressure Regulators	Green Propellant Chemical Propulsion Systems	Solid & Hybrid Propulsion Systems	Cold Gas Thrusters	Detonation Engines 2 Gerard ORDONNEAU - ONERA 246 - Research on Regenerative Cooling System of the Rocket Rotating Detonation Engine
Chair	1 2	Operations Marc VALES - DASSAULT AVIATION 230 - Mobile Hydrogen Peroxide Transport and Storage Container for Worldwide Rocket Launches Christopher GLASER - DLR - Germany 459 - Cryogenic Stages Maintenance Operations Approach for Future Reusable Launchers Francois MAROQUENE-FROISSART - SIRIUS SPACE SERVICES - France	Yohann TORRES - ESA 274 - Green-laser additive manufacture of a GRCop-42 LOX/LCH4 combustion chamber with compliant firewall lain WAUGH - Airborne Engineering - United Kingdom 480 - Additive manufacturing process of a rocket engine thrust chamber assembly Horacio MOREIRA - Omnidea - Portugal	Bertrand KLEIN - ESA 141 - Experimental Investigation of Film Cooling in Subscale Rocket Combustion Chambers Georg KÜHLWEIN - German Aerospace Center - Germany 198 - Experimental characterization of heat transfer and flow boiling in a rectangular minichannel Maria Teresa SCELZO - von Karman Institute for Fluid Dynamics - Belgium	Propulsion in the Spacecraft Design Process Stefan GREGUCCI - SITAEL 514 - Cost-Related Aspects of Spacecraft Propulsion: An In-Depth Exploration Gourav MOHANAN - Dayananda Sagar University - India 527 - Satellite Prime optimized Propulsion responsibility and workshare distribution Timo KRONE - ArianeGroup GmbH - Germany	SESSION 104 Pressure Regulators Davina DI CARA - ESA 085 - High pressure reductor and regulator based on piezo technology: status-of-the-art, qualification results and future applications Francesco MANCINI - Leonardo SpA - Italy 185 - European-Made Mechanical Pressure Regulator for In-Space Use Marcus SJÖBERG - OHB Sweden AB - Sweden	Green Propellant Chemical Propulsion Systems Simone ALFANO - CNES 224 - Qualification Results of a Green Chemical Propulsion Subsystem for 12U Cubesat Missions Marcos PEREZ - LMO - United Kingdom 521 - Development of a 2 Newton High Performance, Dual Mode Hydrogen Peroxide and Octane Rocket Engine for Small Satellites Laura SMITH - Benchmark Space Systems - United States	Solid & Hybrid Propulsion Systems Rogier SCHONENBORG - ESA 215 - UK Race to Space – a national student propulsion competition for bi-prop and hybrid rocket engines Alistair JOHN - University of Sheffield - United Kingdom 218 - Manufacturing processes, additives, and their influence on Lithium-Perchlorate & Polyvinyl-Alcohol-based electric solid propellants Hertel JONATHAN - TU Dresden - Germany	Cold Gas Thrusters Matthew SMITH - ESA 200 - Achievements of a High-Pressure Coldgas Thruster Development Jan-René HAFERKAMP - AST Advanced Space Technologies GmbH - Germany 201 - ED (expansion-deflection) nozzles for cold-gas application Manuel FREY - ArianeGroup - Germany	Detonation Engines 2 Gerard ORDONNEAU - ONERA 246 - Research on Regenerative Cooling System of the Rocket Rotating Detonation Engine Michal KAWALEC - Lukasiewicz - Institute of Aviation - Poland 268 - Experimental Study of a Hollow Small- Scale Rotating Detonation Combustor at TU Darmstadt Henrike JAKOB - Technische Universität Darmstadt - Germany
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KEYNOTE SPEECH #6: Closing Keynote Alberto GARBAYO, Helmut CIEZKI

END OF DAY 4



9TH EDITION OF THE SPACE PROPULSION CONFERENCE





20-23 MAY 2024 GLASGOW • SCOTLAND

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FRIDAY 24 MAY 2024 // DAY 5

09:30

TECHNICAL VISITS

Pre-registration online is mandatory

12:30

END OF SP2024 CONFERENCE