

**PRELIMINARY  
PROGRAMME**



**10<sup>TH</sup> EDITION OF THE  
SPACE PROPULSION  
CONFERENCE**

**20**  
SPACE  
PROPULSION  
**26**

**18-21 MAY 2026**  
**BARI • ITALY**

[WWW.3AF-SPACEPROPULSION.COM](http://WWW.3AF-SPACEPROPULSION.COM)



Association Aéronautique  
et Astronautique de France



**SITAEL**



**URO**



SUNDAY 17 MAY 2026 // DAY 0

16:00	Early registration
18:00	

MONDAY 18 MAY 2026 // DAY 1

08:00	REGISTRATION AND WELCOME COFFEE
	PLENARY SESSION
09:45	<u>WELCOME ADRESSES</u> : 3AF/ ASI / Regione Puglia
10:30	<u>CONFERENCE INTRODUCTION</u> : Jamila MANSOURI, ESA - Jean-François GUERY, ArianeGroup - Giorgio SACCOCCIA, 3AF   <u>Conference co-chairs</u>
10:45	<u>ROUND TABLE #1</u> : The future of Space Propulsion Industry: fulfilling expectations on Programs and policies   <u>Moderator</u> : Chiara MANFLETTI, TUM Teodoro VALENTE, ASI - Bruno VIEILLE, CNES - Shujiro SAWAI, JAXA - TBD, ESA - Susanne HECKRODT, DLR - Juan Carlos CORTES, AEE
11:45	<u>ROUND TABLE #2</u> : Why VLEO Now? Strategic Value, Policy Priorities and Operational Needs   <u>Moderator</u> : Chiara PERTOSA, SITAEL Gal Luca DE MARTINIS, Teledife - Giuditta MONTESANTI, European Commission/DG DEFIS - Bernardo CARNICERO, ESA - Juan Pablo RAMOS, Redwire - Matt GLASCOCK, Exoterra
12:45	LUNCH BREAK
14:00	<u>ROUND TABLE #3</u> : Launchers and associated infrastructures : New propulsion challenges   <u>Moderator</u> : Louis LAURENT, ESA Hervé GILIBERT, ArianeGroup - Francesco BETTI, Avio - Adria ARGEMI, PANGEA - Robin HUBER, Saxavord - Denis SCAGGIANTE, Novaeka
15:00	INTERSESSION

	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8
15:10	<b>SESSION 01</b> Solid Rocket Motors 1	<b>SESSION 02</b> Engines Developpement & Tests 1	<b>SESSION 03</b> LRE Thrust Chamber - Tests	<b>SESSION 04</b> Program Overviews 1	<b>SESSION 05</b> Cathodes 1	<b>SESSION 06</b> Hall Thruster Characterization 1	<b>SESSION 07</b> Development & Qualification of Hall Thruster Systems - Low Power 1	<b>SESSION 08</b> Electric Propulsion Qualification & Flight Programs 1
Chair	-	-	-	-	-	-	-	-
15:10 1	719 - Equipped Solid Rocket Block 2 Qualification Fabrice MARTIN - ArianeGroup - France	050 - Hot-Fire Testing of Hydrogen Peroxyde / Kerosene Additively Manufactured Thrust Chamber Nicolas FOSSEPREZ - Dawn Aerospace - The Netherlands	434 - 25 kN LOx-CH4 Thrust Chamber Assembly Acceptance and Test Campaign João VALE - Omnidea - Portugal	063 - GreenRAIM - Promising Green Propellants - A Trade-Off Birk WOLLENHAUPT - OHB System - Germany	297 - Ignition Cycling of a Heaterless Hollow Cathode for Low-Power Plasma Thrusters Ahmed MOHAMED MONEIR HUSSEIN - University of Southampton - United Kingdom	111 - Segmented-Anode Hall-Effect Thruster: Thrust-Vectoring with Mass-Flow and Voltage-Bias Actuation Willy STARK - Technische Universität Dresden - Germany	062 - Low-Power Magnetically-Shielded Hall Thruster Development for Propellant-Mixture Studies Yusuf CAPUK - University of Southampton - United Kingdom	064 - Qualification Test Campaigns of the Electric Propulsion Subsystem of the Space Inspire Platform Banu Cicek AYDIN - Thales Alenia Space UK - United Kingdom
15:30 2	735 - Europe's Largest Solid-Propellant Rocket Motors: from P80 Technologies to P160C Eric ROBERT - ESA - France	102 - Development Progress of the MR10 Cryogenic Upper Stage Engine for VEGA-E Marco DE ROSA - ESA - Italy	446 - Experimental Investigation of Start Transients in a Regeneratively Cooled 25 kN LOX/LNG Thrust Chamber Dmitry SUSLOV - Institute of Space Propulsion, German Aerospace Center - Germany	072 - Green Propulsion System Review, Assessment, Experimental Investigation and Modelling - GreenRAIM - Overview on Progression in Green Monopropellants Till HÖRGER - Deutsches Zentrum für Luft- und Raumfahrt - Germany	494 - Development and Testing of a Modular, Low Current, Heaterless Hollow Cathode for Space Electric Propulsion Leonardo TROISE - Sant'Anna School of Advanced Studies - Italy	156 - Mode Transition of a Magnetically-Focused Hall Thruster Zuolin XU - Harbin Institute of Technology - China	100 - Low Power Cathode Lifetime Characterization for Sub-Hundred-Watt Hall Thrusters Alexandre GUGLIELMI - Exotrail - France	140 - Development and Evolution of High-Precision Thrust Stands for Electric Propulsion Testing Vanessa VIGNE - DACTEM INTERNATIONAL - France
15:50 3	585 - P160C Solid Rocket Motor Qualification Maria Luisa FREZZOTTI - EUROPROPULSION - France	374 - Summary of the Firing Test Results for a 30 kN-Class LOX/Methane Upper Stage Engine Atsushi IKEMOTO - IHI Corporation - Japan	159 - Design and Manufacturing of a Cold Flow Test Bench of a 3kN Liquid Rocket Engine Injector Hichem REZAIGUIA - Ecole Militaire Polytechnique - Algeria	208 - State of the Art in Nitrous Oxide-Based Satellite Propulsion Ssystems Nicolas FOSSEPREZ - Dawn Aerospace - The Netherlands	733 - The Breakdown Phase of a Heaterless Hollow Cathode Stephen GABRIEL - University of Southampton - United Kingdom	399 - Cross-Facility Testing of a Novel Modular Hall Effect Thruster on Krypton Thomas MUNRO-O'BRIEN - University of Southampton - United Kingdom	299 - Design and Development of a Compact 300W Hall Effect Thruster Willem VAN LYNDEN - Aliena Pte Ltd - Singapore	173 - EP Plume Diagnostic Package: In-Orbit Measurements Aligned with High-Fidelity Modelling Zoe ANGELOW - OHB System AG - Germany
16:10 4	563 - ARIANE 6 & VEGAC P120C/P160C Nozzle - Flight REX and New Nozzle design evolutions Severine LARRIEU - ArianeGroup - France	407 - Development and Testing of Hydrogen Peroxide - Propane Liquid Bipropellant Rocket Engines at OPUS Aerospace Giulio CORAL - OPUS Aerospace - France	653 - Fuel Rich LOx/LNG Preburner Technology Development Tests with a High Pressure Breadboard Combustor Robson HAHN - German Aerospace Center - Germany	476 - Evolution for Next Generation of Chemical Propulsion Systems_AGG Malte WURDAK - ArianeGroup GmbH - Germany		670 - Numerical Study of Neutralization and Charge-Exchange in a 5-kW Hall Thruster Plume During Ground Testing Egor PLYASHKOV - Technology Innovation Institute (TII) - United Arab Emirates	378 - Lifetime Analysis of the 100 W MUSIC Hall Effect Thruster Matteo LATERZA - Aliena Pte Ltd - Singapore	471 - Development of a space-approved vacuum arc thruster providing de-orbit capabilities without the need for additional propellant Roman FORSTER - Bundeswehr Universität München - Germany

	SESSION 09	SESSION 10	SESSION 11	SESSION 12	SESSION 13	SESSION 14	SESSION 15	SESSION 16
17:00	Solid Rocket Motors 2	Launchers & Programs	LRE Thrust Chamber Design	Program Overviews 2	Experimental Techniques 1	Electrothermal Thrusters	Development & Qualification of Hall Thruster Systems	Nuclear Propulsion 1
Chair	-	-	-	-	-	-	-	-
17:00 1	572 - Impact of ARIANE 6 & VEGAC/E P160C SRM New Design on Pressure oscillations Severine LARRIEU - ArianeGroup - France	218 - Innovations in Propulsion within ESA'S Future Launchers Preparatory Programme (FLPP) - Unlocking European Capabilities Kate UNDERHILL - ESA - France	426 - Design Evolution of a 25 kN LOx-CH4 Thrust Chamber Assembly for Space Transportation Applications Luís REBELO - Omnidea Lda. - Portugal	700 - An Overview of Electric Propulsion Activities at JAXA Ikkoh FUNAKI - JAXA - Japan	192 - Development of Underwater Measurement Techniques for Deployment on a Test Tank Nathan MALLART MARTINEZ - ONERA - France	169 - Experimental Characterisation and Numerical Modelling of a Radiofrequency Inductively Coupled Electrothermal Thruster George SADLER - University of Surrey - United Kingdom	600 - SITAEL "PULSE 5K" Thruster Qualification and Coupling Test Campaign Results Stefan GREGUCCI - SITAEL - Italy	311 - Early-Stage Design of Nuclear Thermal Propulsion Systems in EcosimPro/ESPSS framework Vincenzo BARBATO - University La Sapienza - Italy
17:20 2	617 - Development of a 2D Test Bench for Characterising the Dynamic Response of a Solid Rocket Propellant under Rapid Depressurisation Léo DISTELZWEY - ONERA - France	427 - Ariane 6 Launcher: from the Complete Success of its First Three Missions towards the Preparation of Next Missions. Cristina COLAIANNI - ARIANESPACE - France	389 - Student Design and Test of an Additively Manufactured CuCrZr Bipropellant Thrust Chamber for the Characterisation of Film Cooling Brandon BRITAIN - University of Sheffield - United Kingdom	713 - Electric Propulsion Activities at ONERA Denis PACKAN - ONERA - France	271 - Performance Measurement of Pulsed Vacuum Arc Thrusters with a Load-Cell-Based Thrust Balance Benjamin KANDA - University of Southampton - United Kingdom	521 - Design of a Microwave Electrothermal Thruster Prototype for Experimental Investigation of Power Loss Mechanisms Michele NAVA - Politecnico di Milano - Italy	601 - SITAEL Pulse 1K Performance and Environmental Campaign Results Stefan GREGUCCI - SITAEL - Italy	511 - Safety Analyses for Spacecraft with Nuclear Power Systems Eva FOJCIKOVA - ABmerit-nuclear and space - Slovakia
17:40 3	673 - Simplified Modeling for Solid Rocket Motor Pressure Oscillation: An Industrial Approach for Experimental Data Analysis Giulia PELLA - Avio SpA - Italy	538 - CIRA Recent Research Activities on Liquid Propulsion Daniele RICCI - CIRA - Italian Aerospace Research Center - Italy	706 - Combustion Simulation and Validation for a Fuel-rich Subscale Preburner operated with LOX/Methane Jeannine SCHMACKA - German Aerospace Center (DLR) - Germany	385 - Advancing Hydrogen Peroxide Propulsion: CNES's development of H2O2 for Space Applications Pierre LEROUX - CNES - France	456 - Miniature Force Probe Thrust Measurements and Plume Characterization of the ECRa Thruster Giada BRANDI - ONERA - France	523 - Investigation of Molecular Propellants Fed Microwave Electrothermal Thruster Through Multi-Temperature Global Models Michele LAURIOLA - Politecnico di Milano - Italy	691 - Extension of the operating range of the PPS*5000 Hall Effect Thruster at 400V and 5kW Giovanni CODUTI - Safran Spacecraft Propulsion - France	597 - NASA's Electric Propulsion Development Activities for Space Nuclear Propulsion Applications David MANZELLA - NASA - United States

18:00	INTERSESSION
18:10	<u>KEYNOTE SPEECH #1</u> "Full Thrust or False Start? The New Economics of Space Propulsion" - Maxime PUTEAUX, NovaSpace
18:40	END OF DAY 1
20:00	TRADITIONAL DINNER

EXHIBITION

08:00		WELCOME COFFEE								ROOM 9	
		PLENARY SESSION									
08:30		KEYNOTE SPEECH #2									
		Landscape of innovative propulsion technologies - Professor Martin TAJMAR									
09:00		INTERSESSION									
		ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8	ROOM 9	
09:10		SESSION 17 Solid Rocket Motors 3	SESSION 18 Stages & Engine Developpement & Tests	SESSION 19 LRE Thrust Chamber - Cooling	SESSION 20 Catalysts for Green Propellants	SESSION 21 Ignition & Combustion of Chemical Propellants 1	SESSION 22 Propellant Tanks 1	SESSION 23 Magnetoplasmadynamic Thrusters 1	SESSION 24 Field-Emission Electric Propulsion		
Chair		-	-	-	-	-	-	-	-		
09:10 1		425 - Laser Ignition of Solid Rocket Propellants: Pressure-Dependent Ignition Behavior  Philip PIETREK - Fraunhofer-Institut für Chemische Technologie (ICT) - Germany	096 - Optimisation and Design of a 15kN Bi-Liquid Ethalox Rocket Engine for SLM Manufacturing  Kenzi GOURDACHE - EPFL - Switzerland	386 - Experimental Investigation of Film Cooling in a Subscale 2D Rocket Combustion Chamber  Georg KÜHLWEIN - German Aerospace Center - Germany	534 - Experimental Investigation of Different Catalysts with an ADN-based Monopropellant Test Thruster  Abdurrahman Berk AKKAYA - ROKETSAN Inc. - Turkey	176 - Ignition Tests of a Hypergolic Green Propellant in a 50 N Thruster at Low Ambient Pressure  Konstantin MANASSIS - DLR e.V. - Germany	108 - Design, Development and Qualification of a Propellant tank with hybrid skirt/polar mounting for an end-of-life service spacecraft  Johannes UNGAR - Peak Technology GmbH - Austria	060 - Optical Diagnostics on the Plasma Plume of an Argon-Fed Pulsed Magnetoplasmadynamic Thruster  Alexandre PERDRAU - CNRS - France	106 - Plume shape optimization of the ECLIPSE thruster  Laura BETTIOL - FOTEC Forschungs- und Technologietransfer GmbH - Austria	REGIONE PUGLIA - WORKSHOPS	
09:30 2		152 - Development Status of Laser-Initiated Flight Termination System  Seiji ITO - IHI Aerospace - Japan	667 - Development and Status of MPGE Program  Elisa DEPAOLIS - AVIO Spa - Italy	414 - Experimental Investigation of Thin Liquid Films in Hot Stream Flows for Liquid Rocket Propulsion  Federico GIAMBELLI - Politecnico di Milano - Italy	612 - Performance and Operational Constraints of a 1 N 98% Hydrogen Peroxide Monopropellant Thruster With and Without the Catalyst Bed Heater  Adrian PARZYBUT - Lukaszewicz Research Network - Institute of Aviation - Poland	325 - Experimentation and Modeling of an Optically Accessible Hypergolic Rocket Engine  Justin KRUSE - Purdue University - United States	444 - Light Pressurization – Concept of UV photodissociation for self-pressurization of HTP propellant tanks  Christian HESSEL - ArianeGroup GmbH - Germany	382 - Design and Scaling of an Ammonia-Fed AF-MPDT for Bimodal Nuclear Propulsion  Aldo MICCIANI - Università di Pisa - Italy	270 - Spacecraft interactions and charging in presence of Field Emission Electric Propulsion  David KREJCI - Empulsion - Austria		
09:50 3		490 - Solid Rocket Motors Thermomechanical Erosion Prediction Using Advanced Eulerian Multiphase Models  Gianluca COCIRLA - Letara - Japan	707 - Design and Mission Performance Assessment of a LEO to GEO Transfer Stage Using High Test Peroxide/RP 1 Propulsion  Simon BOTH - Pave Space SA - Switzerland	527 - Silicone Oil Fuel Additives for Regenerative Thermal Barrier Coatings in Liquid Rocket Engine Combustion Chambers  Joe LEICESTER - University of Sheffield - United Kingdom	647 - EXPLORING THE USE OF 3D-PRINTED GYROID CATALYSTS FOR HIGH-TEST PEROXIDE DECOMPOSITION  Stefania CARLOTTI - Politecnico di Milano - Italy	370 - Spectroscopic analysis of hypergolic bipropellant ignition with high-test hydrogen peroxide oxidizer  Rose SWEARS - University of Southampton - United Kingdom	720 - Qualification and Acceptance Testing of a Custom Propellant Tank for Hydrogen Peroxide Microsatellite Propulsion System  Artur SOKOLOWSKI - &#321;ukaszewicz Research Network &#8211; Institute of Aviation - Poland	627 - Bimodal Ammonia Nuclear Thermal and Electric Rocket (BANTER) Project: Progress towards Test Campaigns  Angelo PASINI - University of Pisa - Italy	243 - Indirect Roberval Thrust Balance for the Characterization of Field Emission Electric Propulsion (FEPP) and Electro Spray Thrusters  Leo PEIFFER - Dresden University of Technology - Germany		
10:10		COFFEE BREAK									
10:40		SESSION 25 Green propulsion	SESSION 26 Engines Developpement & Tests 2	SESSION 27 LRE Thrust Chamber - Modeling 1	SESSION 28 Green Propellant Thrusters	SESSION 29 Cathodes 2	SESSION 30 Micropropulsion	SESSION 31 Ion Thrusters 1	SESSION 32 Flow Systems for Electric Propulsion		
Chair		-	-	-	-	-	-	-	-		
10:40 1		013 - Additively Manufactured Stainless Steel 316L Catalyst Supports for the Catalytic Decomposition of Hydrogen Peroxide  Dario MANCA - University Of Canterbury - New Zealand	560 - Development Progress of the LOX/CH4 High Thrust Engine for future VEGA evolutions  Marco GALEOTTA - ESA - Italy	351 - Large-Eddy Simulation of Liquid Oxygen / Liquid Methane Coaxial Injection under Transcritical Conditions.  Audrey KLINGUER - CNRS - France	353 - Design of a Modular 100N Bipropellant Thruster Prototype based on Hydrogen Peroxide and Hydrogen  Fabio FARAONI - University of Pisa - Italy	335 - Reconfigurable RF Cathode Operated with Noble Gases and Iodine  Lorenzo TONON - University of Padova - Italy	038 - Lifetime Analysis on GAIA Cold Gas Micro Thrusters  Francesco MANCINI - Leonardo SpA - Italy	139 - Fast Dynamic Control (FDC) of the Radiofrequency Ion Thruster RIT3.5 for ESA/NGGM Mission  Elisa BONELLI - AEROSPAZIO Tecnologie s.r.l. - Italy	172 - AST's Stand-Alone Valve Family for Electrical and Chemical Propulsion Systems  Nils HILDEBRAND - AST Advanced Space Technologies GmbH - Germany	REGIONE PUGLIA - WORKSHOPS	
11:00 2		122 - Research on the Practical Application of Sustainable Rocket Propellant (SRP)  Taisei TAKAOKA - The University of Tokyo - Japan	640 - Simulation Refinements of European Reusable Staged-Combustion Rocket Engine SLME  Martin SIPPEL - DLR-SART - Germany	503 - Large-Eddy Simulation of the LE-X Full-Scale Liquid Rocket Engine Combustor  Takanori HAGA - Japan Aerospace Exploration Agency - Japan	367 - Qualification Campaign Results of the 2U HTP Propulsion System for 12U CubeSats  Shaun DORMON - LMO - United Kingdom	464 - Hollow Cathode Development for Iodine Electric Propulsion Systems  Carla GUIDI - University of Pisa - Italy	088 - Development of a Dual-Stage Plasma Accelerator for Enhanced Vacuum Arc Thruster Performance in CubeSat Applications  Emil CHRISTIANSEN - University of Southampton - United Kingdom	211 - Experimental Evaluation of Lifetime Extension Strategies for Gridded Ion Engines through Modified Propellant Compositions  Pavel SMIRNOV - TransMIT GmbH - Germany	508 - Development Status of Next Generation Electric Pressure Regulator for Electric Propulsion Systems  Pietro BROGGI - AST Advanced Space Technologies GmbH - Germany		
11:20 3		564 - GreenTEA: Development, Characterization, and Hot-Fire Evaluation of a Green, Metal-Additive-Free, Low-Viscosity Hypergolic Ionic Liquid  Florian MERZ - German Aerospace Center (DLR) - Germany	655 - Building Europe's Future Reusable Propulsion Capability: Early Results from the ASTRE Program  Miguel MARTIN BENITO - Centre National d&#8217;Etudes Spatiales (CNES) - France	504 - Robust Wall-Modeled LES for Accurate Heat Flux Prediction in Rocket Engine Combustors  Yasuhito OKANO - Japan Aerospace Exprolation Agency - Japan	391 - Testing of Nammo Green bipropellant throttleable engine  Bastien HÄMMERLI - Nammo Raufoss AS - Norway	364 - Design of an Iodine-Compatible RF Cathode via Global Modelling and Electromagnetic Simulations  Renwei TAN - University of Padova - Italy	784 - A Micro PPT for Small Satellite Applications  Paolo GESSINI - BRAZILIAN SPACE AGENCY (AEB) - Brazil	229 - Concept Development of a Cathodeless Inductively-Coupled Gridded Ion Engine for Very Low Earth Orbit Atmosphere-Breathing Propulsion  Pavel SMIRNOV - TransMIT GmbH - Germany	559 - Design and evaluation of a propellant feed system for electric propulsion systems using naphthalene  Sveva QUINZII - Sant'Anna School of Advanced Studies - Italy		
11:40 4		731 - Development status of the 200 N green HTP monopropellant RACS thruster.  Bastien HAEMMERLI - Nammo Raufoss AS - Norway	780 - Status of LOX/Methane Prometheus Engine demonstration  Lilian PREVOST - CNES - France	424 - LES Validation and Analysis of Unstable Liquid Rocket Engines at Super- and Subcritical Pressures  Giulio PELENGHI - ISAE-SUPAERO - France	207 - Predictive Modeling of Miscibility in N <sub>2</sub> O-Based Green Propellant Blends  Chiara Antonietta PANOZZO - DLR (German Aerospace Centre) - Germany	092 - Experimental characterization of diamond-based thermionic emitters for hollow cathodes  Aldo MICCIANI - Università di Pisa - Italy	344 - Two-dimensional Ion Current Density Measurement of the μ10 Microwave Discharge Ion Thruster using multiple Faraday-probe  Doriana CECERE - Politecnico di Torino - Italy	233 - Improving Microwave Discharge Ion Thruster Performance by Changing the Frequency to 5.8 GHz  Maria Lourdes INSINGA - Politecnico di Torino - Italy	603 - Development and System Integration of a Multifunctional Micro-Valve for Miniaturized Propulsion Systems Based on Hall-Effect Thruster Technology  Merve BALABAN - BERLIN SPACE - Germany		
12:00 5		292 - Hydrogen Peroxide Operations: Risks, Monitoring, and Good Practices  Luca BREGGION - CNES - France	666 - Testing Demonstrators of MPGE Engine for VEGA Launcher Applications  Pandolfo Ansano SANI - AVIO S.P.A. - Italy	268 - Numerical Simulation of the DLR LUMEN Thrust Chamber: Impact of Small Injection Asymmetry  Clara MORRIS - DLR - Germany	587 - Paraffin/HTPB blends for CubeSat propulsion: experimental and numerical performance  Daniele TORTORICI - La Sapienza, University of Rome - Italy		643 - A Framework for Real-Time Unsteady Simulation of Hybrid Micro-Propulsion Devices.  Pratyush Kumar SINGH - University of Salento - Italy	394 - PIC-informed reduced electron model for gridded ion engine plumes  Matteo GUAITA - Universidad Carlos III de Madrid - Spain	703 - Demonstration Testing of a Hall Thruster Fed with Cryostored Liquid Argon  Olivier DUCHEMIN - Safran Aircraft Engines - France		
12:20		LUNCH									

EXHIBITION

PLENARY SESSION

**13:50** **ROUND TABLE #4 : From Scale to Agility: Competing in the New Era of Orbital Propulsion Manufacturing | Moderator : Jamila MANSOURI, ESA**  
 Dean MAC BRIDE, Airbus - Olivier PIEPSZ, Prométhée - Earth intelligence - Xavier CAVELAN , Safran Spacecraft Propulsion - Marzia MIGLIORELLI, SITAEL - Emily LONGHI, Aerospazio - Yousuke TASHIRO, IHI

INTERSESSION

	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8	ROOM 9
<b>15:00</b>	<b>SESSION 33</b> Reusability	<b>SESSION 34</b> Hybrid Propulsion 1	<b>SESSION 35</b> LRE Thrust Chamber - Manufacturing & Mechanical Behavior	<b>SESSION 36</b> Magnetoplasmadynamic Thrusters 2	<b>SESSION 37</b> Manufacturing Techniques & Industrialization	<b>SESSION 38</b> Propellant Storage and Distribution 1	<b>SESSION 39</b> Water Propulsion Systems 1	<b>SESSION 40</b> Magnetoplasmadynamic Thrusters 3	
<b>Chair</b>	-	-	-	-	-	-	-	-	
<b>15:00</b> 1	486 - Thermomechanical Limits and Performance Trade-Offs of Reusable Rocket Engines for First-Stage Reuse  Lilly ETZENBACH - Massachusetts Institute of Technology - United States	066 - Testing of a Throttleable Hybrid Rocket Engine using multiple Oxidizer Injections  Joël MARTIN - German Aerospace Center - Germany	515 - Additively Manufactured Bimetallic Thrust Chamber: Manufacturing and Preliminary Testing for Next-Generation Launcher Applications  Alessandra LOPERFIDO - AVIO - Italy	078 - Performance Measurements of a 9kW Coaxial Electrodeless Magnetoplasmadynamic Thruster  Grace ZOPPI - Plasmadynamics and Electric Propulsion Laboratory at the University of Michigan - United States	011 - Friction Stir Welding of aluminium tanks: safe disposal at the satellite life end and zero-leakage performance.  Valentin PECQUEUR - Stirweld - France	191 - Waterhammer Measurements for H2O2 and Hydrazine in a Linear and Tee Configuration  Jouke HIJLKEMA - ONERA - France	018 - Life Quantification Test of the Water Electrolysis Hall Effect Thruster (WET-HET)  Freddy BAYLISS - Imperial College London - United Kingdom	087 - Thrust Measurement of the Quasi Steady-State Pulsed MPDT of the Modular Pulsed Propulsion System  Rune FRITZSCHE - Institute of Space Systems - Germany	<b>REGIONE PUGLIA - BIOB MEETINGS</b>
<b>15:20</b> 2	629 - Integrated Engine-Cycle and Structural Modelling for Reusable Liquid Rocket Engines  Mateusz GULCZYNSKI - German Aerospace Center - Deutsches Zentrum für Luft- und Raumfahrt (DLR) - Germany	070 - Functionalization of 3D-Printed Reinforcing Structures in Armored Grains for Hybrid Rocket Propulsion  Carlo RONTINI - Politecnico di Milano - Italy	573 - Transpirative Expansion Slot Cooled Additively Manufactured Rocket Engines  Iain WAUGH - Airborne Engineering Ltd - United Kingdom	272 - Preliminary Design and Performance Calculation of a 4.5 kW Applied-Field MPD Thruster  Giovanni COPPOLA - The Italian Aerospace Research Centre - Italy	055 - SCALING UP SPACE PROPULSION PRODUCTION: DAWN AEROSPACE'S JOURNEY FROM PROTOTYPE TO SERIAL MANUFACTURING  Nicolas FOSSEPREZ - Dawn Aerospace - The Netherlands	194 - Stellar Electric Gear Pump  Martin LEDVINKA - Stellar Exploration s.r.o. - Czech Republic	021 - Combined system performance tests of the water electrolysis propulsion system for the small satellite ROMEO  Alexandros VIKAS - Institute of Space Systems - University of Stuttgart - Germany	349 - Influence of Propellant Type on Thrust-Generation Mechanisms in Low-Power Applied-Field MPDTs  Jakub GLOWACKI - Victoria University of Wellington - New Zealand	
<b>15:40</b> 3	631 - CALLISTO – Reusable Engine and Flight Demonstration  Michel ILLIG - CNES - France	117 - Performance Comparison of a Hydrogen Peroxide-Based Hybrid Rocket Engine with Hypergolic and Catalyst-Bed Modules  Ahmet Nihat KARCI - University of Southampton - United Kingdom	383 - Root Cause Analysis of a Cooling Jacket Failure on a 25 kN LOX-CH4 Thrust Chamber Assembly  Horacio MOREIRA - Omnidea - Portugal	358 - Electrostatic Probe Measurements in the Plume of a Miniature Pulsed SF-MPD Thruster  Etienne MICHAUX - CNRS - France	225 - Additive Manufacturing Solutions for Solar Thermal Propulsion: An Integrated RAC Design Approach  Riccardo CAMBERTONI - TU Delft - The Netherlands	337 - Mass gauging experiment aboard a cryogenic orbital payload  Sara Cecilia ABECIA-HERNANZ - UPC-BarcelonaTech - Spain	259 - End-to-End Testing of a 1N Thruster and Cathode Vapour Feed Electrolyser in a Vacuum Test Facility  Charles MUIR - European Space Agency - The Netherlands	376 - Two-fluid simulation of applied-field MPD thruster discharge using OpenFOAM  Zhaoning ZHANG - Harbin Institute of Technology - China	
<b>16:00</b> 4	699 - CFD Modeling Challenges for Reusable Launch Vehicle Development  Yohan BLACODON - MAIASPACE - France	219 - Estimation of the Optimal Mixture Ratio Point of a Hybrid Rocket Engine by Spectrometric Analysis of the Exhaust Plume  Quentin LEVARD - ONERA - France	442 - Thermomechanical Fatigue Testing of Additively Manufactured Combustion Chamber Segments  Sebastian SOLLER - ArianeGroup - Germany	361 - Thermal Design of a Low-Power AF-MPD Thruster within the EU Project BANTER  Alessa SPERBER - Institute of Space Systems, University of Stuttgart - Germany	410 - High-temperature alloys for high-performance in-space propulsion applications using Cold Spray Additive Manufacturing – CSAM  Markus BROTSACK - Impact Innovations GmbH - Germany	355 - Design and Development of a Propulsion Fluidic Breadboard for the Rosalind Franklin Mission Lander Platform  Wooding ANGUS - Airbus Defence and Space - United Kingdom	430 - Development and In-House Experimental Demonstration of An Optimised Water Electrolysis Hall Effect Thruster  Mickéias Sisay BERHE - URA Thrusters - United Kingdom	685 - Discharge and Propellant Mass Flow Control in Axially and Radially Segmented AF-MPD Thruster Designs  Alexander BEHNKE - University of Stuttgart - Germany	
<b>16:20</b> 5	630 - Health Monitoring and Intelligent Control for Reusable Liquid-Propellant Rocket Engines  Kai DRESIA - German Aerospace Center (DLR) - Germany	498 - Stabilized combustion in circular fuel duct with catalyst-driven hydrogen peroxide as oxidizer  Taejun SON - Japan - Japan	536 - Testing of an Additively Manufactured GRCop-42/IN718 LOX/LCH4 Combustion Chamber with Compliant Firewall  Iain WAUGH - Airborne Engineering Ltd - United Kingdom	517 - Plasma Plume Mapping of a Low Power Pulsed Magnetoplasmadynamic Thruster  Thomas YUNG - Comat - France	598 - Reimagining Hydraulic Components for Future Space Propulsion Systems Through Additive Manufacturing  Hervé SAUDAN - CSEM SA - Switzerland	537 - Development of a Bistable Valve for Polish Imaging Satellites (PIAST)  Zbigniew GUT - &#321;ukasiewicz&#8212;Institute of Aviation - Poland	437 - Realising Stoichiometric Hydrogen/Oxygen Combustion with the 1N ICE-1000 thruster for Electrolysed Water Propulsion  Danylo SHCHERBAK - URA Thrusters Ltd. - United Kingdom		
<b>16:40</b>	<b>COFFEE BREAK</b>								
<b>17:10</b>	<b>SESSION 41</b> Propellant Feed Systems	<b>SESSION 42</b> Hybrid Propulsion 2	<b>SESSION 43</b> LRE Thrust Chamber - Combustion	<b>SESSION 44</b> Green Monopropellant Thrusters 1	<b>SESSION 45</b> Green Bipropellant Thrusters	<b>SESSION 46</b> Advanced Propulsion Concepts	<b>SESSION 47</b> Propulsion Systems for Exploration Missions 1	<b>SESSION 48</b> Electrospray Propulsion 1	
<b>Chair</b>	-	-	-	-	-	-	-	-	
<b>17:10</b> 1	258 - Optimization of an Onboard Cryogenic Propellant Subcooler using the Joule-Thomson Effect  Kiyoshi KINEFUCHI - Nagoya University - Japan	345 - First Sounding Rocket Launch from the UAE  Carmine CARMICINO - Technology Innovation Institute - United Arab Emirates	166 - Experimental Studies of Methane/Oxygen Combustions Including Off-Nominal Operating Conditions  Keita YAMAMOTO - JAXA - Japan	023 - Formation of a High-Performance Monopropellant Formed of Hydrocarbon-Filled Microcapsules and Hydrogen Peroxide: a Retrospective  Robin SCHOLL - German Aerospace Center (DLR) - Germany	051 - Development, Qualification, and In-flight Demonstration of Dawn Aerospace's Family of 1N–200N Green Nitrous Oxide-Based Bi-Propellant Thrusters  Nicolas FOSSEPREZ - Dawn Aerospace - The Netherlands	007 - Plasma Formation, Current Drive and Confinement in the Spherical Tokamak Thruster  Hamda AL-ALI - Imperial College London - United Kingdom	135 - Catalyst Screening for Lunar ISRU Production of Hydrogen Peroxide  Eva STEINMANN - Deutsches Zentrum für Luft- und Raumfahrt (DLR) - Germany	026 - Numerical Investigation of Plume Angular Divergence in Electro Spray Systems: Influence of Geometrical and Operational Parameters  Erica LOPEDETE - Université Libre de Bruxelles - Belgium	
<b>17:30</b> 2	333 - Comprehensive Analytical and Numerical Modelling of Heat Transfer in Spherical Ti6Al4V Gas Bottles for Sustainable Launch Vehicle Operations  Kesava Vishnu G - ISRO - India	346 - Hybrid Rocket Engine Performance Estimation with an Unscented Kalman Filter  Albertus Stephanus LOUW - Letara Ltd. - Japan	222 - Transcritical Combustion and Wall Heat Transfer Simulation of a Seven-Element LOX/CH4 Rocket Combustor  Marvin POMMERENING - ArianeGroup - France	097 - Development of a Safe and Low-Toxicity Monopropellant Thruster Series  Shinji IGARASHI - IHI Aerospace Co., Ltd., - Japan	076 - ISPTech's HyNOx Self-Pressurized Propulsion Technology: Development Status and Qualification for first Missions  Julian DOBUSCH - ISPTech - InSpacePropulsion Technologies GmbH - Germany	073 - A novel magnetic reconnection thruster for high specific impulse interplanetary missions  Giulia BECATTI - University of Pisa - Italy	221 - Preliminary Study on the Environmental Stability of Solid Propulsion Materials for Deep Space Kick Stages  Atsushi TAKATA - IHI AEROSPACE Co., Ltd. - Japan	279 - Effect of Spatial Plume Variations on Time-of-Flight Based Performance Measurements for Ion Electro Spray Propulsion  Saba SHAIK - Massachusetts Institute of Technology - United States	
<b>17:50</b> 3	554 - Development and Qualification of Fast Acting Cavitating Venturi Control Valves  Jack COGHEN-BREWSTER - Protolaunch - United Kingdom	348 - CAMUI as Compact and Efficient High-Thrust Hybrid Rocket Boosters: a Comparative Study  Marco ROTONDI - Letara Ltd - Japan	366 - A Low-Order Framework for Predicting Transverse Combustion Instabilities in a Rectangular Model Combustor  Alex FALCO - La Sapienza, University of Rome - Italy	280 - Water Hammer in Breadboard Testing for Green Spacecraft Propulsion Systems Utilizing 98% Hydrogen Peroxide  Damian GRABOWSKI - &#321;ukasiewicz Research Network - Institute of Aviation - Poland	129 - ISPTech's HIP_11 - Green Hypergolic Propulsion: Development Status and Demonstration of a Hypergolic 22N Thruster in Vacuum  Felix LAUCK - ISPTech - InSpacePropulsion Technologies GmbH - Germany	113 - Exploring Thrust Mechanisms of Aerographite for Photon Propulsion Applications  Julius KARLAPP - TUD Dresden University of Technology - Germany	495 - Design and Testing of a GOX/GCH4 Thruster for Attitude Control on a Lunar Lander  Marco Romano DELOGU - Politecnico di Torino - Italy	312 - Coupled Multi-phase Simulation: Electro Spray Propulsion for Small Spacecraft  Nikhil MELGIRI - Royal Military College - Canada	
<b>18:10</b> 4	590 - Lessons Learned from the Design and Development of a Rotary Ball Valve for Propellant Feed Management in the Prometheus Engine  Cédric FRIPPIAT - Safran Aero Boosters - Belgium	545 - Design and Testing of the Propulsion System of a H2O2/ABS Student-developed Hybrid Rocket  Nikolai CHISHOLM - Supaero Space Section - France	375 - Feasibility Study of Minimal-Physics Modeling for Combustion Instability in a Simplified LOX/LH2 Single-Injector Combustor Using LES and URANS  Hideki MORIAI - Kanazawa Institute of Technology - Japan	350 - Thermal Modeling and Test Correlation of a Hydrogen Peroxide Monopropellant Thruster  Erik RONNING - Nammo Raufoss AS - Norway	137 - Design and Evaluation of a 200 N HyNOx Thruster Control Algorithm in a Hardware in the Loop Simulation of a Landing Demonstrator  Fabio ADDARIO - Deutsches Zentrum für Luft- und Raumfahrt - Germany	210 - A Multidisciplinary Design Optimization Approach to the Preliminary Design of a Solar Thermal Thruster for the Green SWaP Project  Leonardo DALL'OSTO - TU Delft - The Netherlands	580 - RELIANCE High Performance Engine Development for Interplanetary Landing Missions  Anthony HAYNES - Nammo UK - United Kingdom	396 - Ion Beam Characteristics of Electro Spray Thrusters using High-Energetic Ionic Liquids  Yoshinori TAKAO - Yokohama National University - Japan	
<b>18:30</b> 5	704 - An Integrated CFD-Analytical-Experimental Design Strategy for 3D-Printed Cryogenic Hydrogen Heat Exchangers  Saddik ADDARKAQUI TAARABT - Safran Aero Boosters - Belgium	599 - Assessment of Injection Pattern Effects on Regression Rate in a Small-Scale HTP/HDPE Hybrid Rocket Engine  Riccardo GUIDA - UNIVERSITY OF NAPLES - Italy	452 - LES of a GOX/GH2 Rocket Combustor with Analysis of Chamber Acoustics using a Flux Reconstruction Scheme  Patrick STREMPFL - Japanese Aerospace Exploration Agency - Japan	725 - Design Update and Qualification of ECAPS' 100 mN HPGP Thruster and 2U CubeSat Propulsion Module  Wilhelm DINGERTZ - ECAPS AB - Sweden	240 - Improved Design and Performance Assessment of a flight-weight 250 N Green Propellant Thruster  Duran MARTIN - Technology Innovation Institute - United Arab Emirates	764 - Fission-Driven Plasma Propulsion  Natalia LOPEZ - Harvard University - United States	609 - Argonaut LDE Propulsion System Requirements and Design  Emanuele TAVANI - ESA - The Netherlands	714 - Ion Beam Diagnostics of a Single-Emitter Electro Spray Thruster  Dongho LEE - Korea Advanced Institute of Science and Technology - South Korea	

08:00									WELCOME COFFEE								
									PLENARY SESSION								
08:30									KEYNOTE SPEECH #3 Propulsion for reusability - Christophe BONNAL - Maia Space								
09:00									INTERSESSION								
ROOM 1		ROOM 2		ROOM 3		ROOM 4		ROOM 5		ROOM 6		ROOM 7		ROOM 8		ROOM 9	
09:10		09:10		09:10		09:10		09:10		09:10		09:10		09:10		09:10	
SESSION 49		SESSION 50		SESSION 51		SESSION 52		SESSION 53		SESSION 54		SESSION 55		SESSION 56			
Solid Rocket Motors 4		Hybrid Propulsion 3		LRE Thrust Chamber - Injection		Iodine Thrusters 1		On-Orbit Refueling 1		Monopropellant Thrusters		Hall Thruster Characterization 2		Propellant Tanks 2			
Chair		Chair		Chair		Chair		Chair		Chair		Chair		Chair		Chair	
-		-		-		-		-		-		-		-		-	
09:10 1		09:10 1		09:10 1		09:10 1		09:10 1		09:10 1		09:10 1		09:10 1		09:10 1	
555 - A Comprehensive Two-Phase Flow Modeling Approach for Solid Rocket Motors Performance Prediction Giacomo PASSARANI - Sapienza University of Rome - Italy		738 - Design and Development of a 500 N Hybrid Propulsion Test Engine on a Self-Built Test Stand using N2O as Liquid Oxidiser and PLA as Solid Propellant. Akshat GOEL - Technische Universität Berlin/BEARS E.V. - Germany		093 - Design and Preliminary Performance Analysis of a Counter Bi-Swirl Injector for a 200 kN Methalox Rocket Engine Lois MARTINS PIÑON - EPFL - Switzerland		116 - On-Orbit Demonstration of First All-Iodine Electric Propulsion System Michael TSAY - Busek Co Inc - United States		020 - Design and Evaluation of a Breadboard System for Liquid and Gaseous In-Orbit Refuelling: METEOR Simone ALFANO - CNES - France		044 - Preliminary Study on the Effect of Monopropellant Thruster Operation on LRF Measurements in the Development of a Mars Landing Guidance and Control Hardware Simulator Kugo OKADA - Japan Aerospace Exploration Agency (JAXA) - Japan		544 - Performance of 1500 W Hall Effect Thruster for Different Voltages and Xenon Flow Rates Baris CAL - TUBITAK UZAY - Turkey		120 - Low-Pressure Vessel of Xenon Using Metal Organic Framework Technology Ryudo TSUKIZAKI - Japan Aerospace Exploration Agency - Japan			
09:30 2		09:30 2		09:30 2		09:30 2		09:30 2		09:30 2		09:30 2		09:30 2		09:30 2	
787 - Development and Validation of a 2D Coupled CFD - FE Model for SRMs Nozzle design Verification Giovanni Maria CRISPINO - Avio Spa - Italy		771 - Testing of an Advanced GOx/Paraffin-Based Fuel 1000 N Hybrid Rocket Engine Daniele CARDILLO - CIRA (Centro Italiano Ricerche Aerospaziali) - Italy		134 - Numerical Investigation of Supercritical Swirl-Coaxial LOX/CH4 Injection and Combustion in DLR's Single-Element Research Rocket Combustor BKN Dogan KAYA - German Aerospace Center (DLR) - Germany		118 - Overview of the iFACT-MP project: a European Iodine Fed Advanced Cusp Field Thruster for Mid-Power Jennifer LY - Airbus Defense and Space - Germany		082 - Refuelling the Gateway – The Xenon Transfer System Malina REITEMEYER - OHB System AG - Germany		171 - Towards Qualification of a 1-N HTP Monopropellant Thruster Matteo PESSINA - FOTEC GmbH - Austria		671 - Advancement Status of an Ultra-Sensitive Thrust Balance for High-Precision Hall Effect Thruster Characterization Pasquale NATALE - CIRA s.c.p.a. - Italy		373 - Experimental Validation of a Reinforced Blowdown Model using a saturated fluid as pressurant in a FEP Bladder Tank (Fuel Vapour Pressurization) Matteo SERCHI MASINI - University of Pisa - Italy			
09:50 3		09:50 3		09:50 3		09:50 3		09:50 3		09:50 3		09:50 3		09:50 3		09:50 3	
421 - Simulation of Microscale Combustion of a Composite Rocket Propellant Philip PIETREK - Fraunhofer-Institut für Chemische Technologie (ICT) - Germany		254 - Numerical Investigation on the Regression Rate Trend of Pyrolysing Fuel in Vortex Flow Hybrid Rocket Engine Francesco CALABRÒ - Politecnico di Milano - Italy		307 - Hydrodynamic Effects of Swirl Coaxial Injectors in High Pressure LOX/Methane Rocket Engines Alexander BEE - German Aerospace Center (DLR) - Germany		054 - Development and Characterization of the Iodine-Fed Kilowatt Thruster for iFACT-MP Saskia SÜTTERLIN - Airbus - Germany		131 - Investigation of an External Refueler Tank to Resupply a Commercial LEO Space Station Tino KLAHN - Airbus Defence & Space - Germany		432 - Design and Development of the Landing Platform Propulsion Subsystem for The Rosalind Franklin Mission Joseph HUNT - Airbus Defence and Space UK - United Kingdom		727 - Experimental Investigation of Performance Improvements in Hall Effect Thrusters Excited by Quasistatic Radiofrequency (Bernstein Modes) Jesús Manuel MUÑOZ TEJEDA - Imperial College London - United Kingdom		674 - Flow Network Modeling of a Cryogenic Gallery Liquid Acquisition Device: Approach and Validation Emilio GORDON - Southwest Research Institute - United States			
10:10									COFFEE BREAK								
10:40		10:40		10:40		10:40		10:40		10:40		10:40		10:40		10:40	
SESSION 57		SESSION 58		SESSION 59		SESSION 60		SESSION 61		SESSION 62		SESSION 63		SESSION 64			
Plume & Aerodynamic Effects Evaluation 1		Detonation Engines 1		LRE Thrust Chamber - Modeling 2		Development & Qualification of Hall Thruster Systems - Low Power 2		Ion Thrusters 2		Air-Breathing Electric Propulsion 1		Green Monopropellant Thrusters 2		Bipropellant Thrusters			
Chair		Chair		Chair		Chair		Chair		Chair		Chair		Chair		Chair	
-		-		-		-		-		-		-		-		-	
10:40 1		10:40 1		10:40 1		10:40 1		10:40 1		10:40 1		10:40 1		10:40 1		10:40 1	
008 - Computational Analysis of Radiative Heat Loading on Hydrocarbon-Fueled Rockets Sebastian KARL - DLR - Germany		035 - Reduced-order Modelling of Wall Heat Flux in Rotating Detonation Rocket Combustors with One-dimensional Coolant Coupling Victor Petri MILO - ISAE-SUPAERO - France		556 - Numerical Investigation of the Near-Injector Flow of a CH4-O2 Flame using Finite-Rate Chemistry Modeling Jan VAN SCHYNDEL - German Aerospace Center (DLR) - Germany		457 - Development and testing of a 500W-class high-voltage argon-fed Hall thruster Vittorio GIANNETTI - University of Pisa - Italy		406 - Status of the RIT2X endurance and environmental test campaigns Tobias MAYER - Ariane Group Germany - Germany		126 - Influence of Channel Material on the Performance and Surface Evolution of an Air-Breathing Hall Thruster Zijian LIU - Harbin Institute of Technology - China		436 - Development and qualification of ALPHARD-20 hydrogen peroxide propulsion module. Daniele PAVARIN - Technology for Propulsion and Innovation S.p.A. - Italy		030 - Vacuum Hot-fire Testing of the LEROS ACE-25 Hydrazine/MON 25lbf Engine Alex VARNEY - Nammo UK - United Kingdom			
11:00 2		11:00 2		11:00 2		11:00 2		11:00 2		11:00 2		11:00 2		11:00 2		11:00 2	
009 - Unsteady Aerodynamics of Engine Startup During Retro-Propulsion on a Reusable Launcher Tamas BYKERK - The German Aerospace Center - Germany		160 - Experimental characterization of a Small-Scale Hydrogen-Oxygen Rotating Detonation Combustor at Fuel-Rich Conditions. Maria Giulia MONTI - German Aerospace Center (DLR) - Germany		593 - Comparison between Large-Eddy Simulation and Reduced-Order Modeling of a Five Coaxial LOx/CH4 Combustor with Acoustic Forcing Maxime CHRISTELY - Univeristé Paris-Saclay, CentraleSupélec - France		479 - Laser Induced Fluorescence applied to low power Hall Thrusters operated with atomic and molecular propellant. Fabiano PERINI - CNRS - France		419 - Including Space-Charge and External Circuit Effects in a 2D Axisymmetric Model of RIT Plasma Discharge Simone DALLE FABBRICHE - Universidad Carlos III de Madrid - Spain		213 - Development and experimental characterisation of a microwave cathode for air-breathing plasma propulsion Andrea LUCCA FABRIS - University of Surrey - United Kingdom		482 - ARIEL – Development of a 250N monopropellant thruster working with hydrogen peroxide 98% from scratch to commercialization Basilio DI POTO - Arkadia Space - Spain		053 - FROM PRINTER TO ORBIT: THE 0.8U CUBEDRIVE BIROPELLANT PROPULSION SYSTEM Nicolas FOSSEPREZ - Dawn Aerospace - The Netherlands			
11:20 3		11:20 3		11:20 3		11:20 3		11:20 3		11:20 3		11:20 3		11:20 3		11:20 3	
125 - Chemistry Reduction Based on Neural Network Surrogate: Implementation of Adapted Thermodynamics Modeling into CFD Solver Baptiste ROMAIN - ONERA - France		077 - Detonative Propulsion: Overview of Combustion Physics and Discussion of Challenges Stephen HEISTER - Heister & Associates LLC - United States		709 - Transfer Learning: how to Build Efficient Surrogate Models of Liquid Rocket Engine Injectors with Limited Data Giovanni ROMANO - ISAE-SUPAERO - France		594 - SPARK: From Life Test to Mission Readiness Stefan GREGUCCI - SITAEL - Italy		619 - Experimental Investigation of the Neutralisation Process in a Dry Neutraliser Coupled with a RF Ion Thruster Klevis GASA - University of Southampton - United Kingdom		241 - Air-Breathing Electric Propulsion Activities at TU Dresden Christoph PETER - Technische Universität Dresden - Germany		484 - DARK –Orbital demonstration of a fully European in-space propulsion system using hydrogen peroxide Ismael GUTIERREZ - Arkadia Space - Spain		574 - Using FFKM for Bi-prop Systems to Increase Applicability of the Product Portfolio – A Compatibility Study for MON-3 Niclas TERLUNEN - Omnidea-RTG - Germany			
11:40 4		11:40 4		11:40 4		11:40 4		11:40 4		11:40 4		11:40 4		11:40 4		11:40 4	
265 - Impact of Rocket Engine Exhaust Product Uncertainties on the DLR Inventory of Global Emissions by Launchers Steffen CALLSEN - German Aerospace Center (DLR) - Germany		151 - Optical Investigation of Operational Characteristics of a Small-Scale Rotating Detonation Combustor Using Gaseous Hydrogen and Oxygen with and without Center Body for In-Space Propulsion Applications Yonghun LEE - TU Darmstadt - Germany		532 - A Lightweight Thermal Modeling Framework for Regeneratively Cooled Rocket Chambers Tiago GÂNDARA - University of Aveiro - Portugal		468 - K-HERO: A 3U CubeSat Mission for Low-Power Hall Thruster Demonstration Dongha PARK - KAIST - South Korea		625 - Pushing the Operational Envelope, Mitigating and Learning from In-Space Anomalies on the NPT30-I2 Gridded Ion Thruster Fleet Benno RIHA - ThrustMe - France		579 - Kreios Space ABEP Development Status Stanislav TOLOK - Kreios Space - Spain		525 - Performance Characterization of a 25 N HTP Monopropellant Thruster F&#305;rat Cihan DO&#286;AN - ROKETSAN INC - Turkey		723 - Changes in Mixed Oxides of Nitrogen Chemistry During Offload Scenarios Lockett DALE - European Astrotech Ltd. - United Kingdom			
12:00 5		12:00 5		12:00 5		12:00 5		12:00 5		12:00 5		12:00 5		12:00 5		12:00 5	
286 - Numerical Investigation of External Flux Effect on Aerospike Nozzle Performance Fabrizio PONTI - University of Bologna - Italy		186 - Three-Dimensional Numerical Simulation of the Operation of an Experimental Hydrogen-Oxygen Rotating Detonation Engine Ignacio SERRANO - German Aerospace Center (DLR) - Germany		450 - Real-fluid multiphase flamelet-based modeling for Liquid Rocket Engine injection Davide CAVALIERI - Sapienza University of Rome - Italy		635 - Development and Characterization of a Miniaturized Hall-Effect Thruster for Small Satellite Applications Merve BALABAN - BERLIN SPACE - Germany		753 - Development and Qualification of the Radiofrequency Ion Thruster (RIT3.5) and Hollow Cathode Neutraliser (HC4) for the NGGM Mission. Daykin-Iliopoulos ALEXANDER - Mars Space LTD - United Kingdom		608 - Design of a VLEO wind tunnel for the characterization of air-breathing electric propulsion Tommaso ANDREUSSI - Sant'Anna School of Advanced Studies - Italy		668 - Development of the High-Test Peroxide Mono-propellant Propulsion System for FORMOSAT-8 Remote-Sensing Satellite Yao-Chung HSU - Taiwan Space Agency - Taiwan		746 - 3d analysis of the conjugated heat transfer of a 500 N LPBF manufactured regeneratively cooled Nitrous Oxide / Ethane apogee motor Jörg RICCIUS - DLR Lampoldshausen - Germany			
12:20									LUNCH								

Women Trailblazers in the Future of Space Propulsion Technology  
WIA-Europe Round Table in collaboration with the 2026 Space Propulsion Conference

EXHIBITION

PLENARY SESSION

STARTUP CONTEST

INTERSESSION

	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8
13:50	STARTUP CONTEST							
14:50	INTERSESSION							
15:00	<b>SESSION 65</b> Plume & Aerodynamic Effects Evaluation 2	<b>SESSION 66</b> Air Breathing and Advanced Propulsion	<b>SESSION 67</b> Aerospike design and tests	<b>SESSION 68</b> Electrodeless Thrusters	<b>SESSION 69</b> Propulsion Systems Modeling	<b>SESSION 70</b> Test Facilities & Experimental Techniques	<b>SESSION 71</b> Power Processing & Control Units	<b>SESSION 72</b> Hall Thruster Modeling
Chair	-	-	-	-	-	-	-	-
15:00	289 - Experimental Measurements and Associated Numerical Simulations on a Reduced Scale Solid Rocket Motor Jet Impinging on a Plate for Characterization of Environments at Lift-Off Julien TROYES - ONERA - France	201 - Development Status of the ATRIUM Engine and a Flight Testbed Yuki SAKAMOTO - ISAS/JAXA - Japan	065 - Assessment of Plug Effects on Toroidal Aerospike Thrust Vector Control Capabilities Davide DEMARTINI - Pangea Aerospace - Spain	308 - Effect of Magnetic Field Strength on the Performance of the ALFVEN Thruster Yung-An CHAN - German Aerospace Center (DLR) - Germany	215 - Development of a new sloshing model based on the moving pulsating ball theory (MPBM) for large-amplitude liquid motion within ESPSS José Manuel BAREA LOPEZ - Empresarios Agrupados - GHESA - Spain	024 - Presentation of the CNES Propulsion laboratory Ulysse WELLER - CNES - France	132 - PPU Developments at Thales Alenia Space in Belgium Eric BOURGUIGNON - Thales Alenia Space in Belgium - Belgium	015 - AI-AGENT BASED GENERATIVE DESIGN FOR ELECTRIC PROPULSION SYSTEMS: THE CASE OF HALL THRUSTER ANODE AND PROPELLANT DISTRIBUTOR George-Cristian POTRIVITU - Aliena Pte Ltd - Singapore
15:20	408 - OpenFOAM CFD Solver Comparison for One-Way Coupled CFD-DSMC Simulations of Plume-Surface Interactions Jannis PETERSEN - TUD Dresden University of Technology - Germany	249 - Development of a Gas-Liquid-Injection System for High-Speed Air-Breathing Propulsion Luca Thomas BAUER - German Aerospace Center - DLR - Germany	164 - Numerical Analysis of Thrust Vector Control and Adaptive Throttling in Aerospike Engines with Inner Core Displacements Calin PROFIR - COMOTI &#8211; Romanian Research & Development Institute for Gas Turbines - Romania	329 - Metasurfaces to Advance Electric Space Propulsion Mirko MAGAROTTO - University of Padova - Italy	352 - ESPSS Modelling of the Landing Platform Propulsion Subsystem for The Rosalind Franklin Mission Joseph HUNT - Airbus Defence and Space UK - United Kingdom	143 - FAST2: FULL AUTOMATIC SPACECRAFT THRUSTERS TESTING Vanessa VIGNE - DACTEM INTERNATIONAL - France	138 - Airbus DS - Space Electronics, Power Processing Units last developments and technologies status Eric TREHET - Airbus Defence and Space - France	110 - Validation of VSTRAP-HET: Fully Kinetic Simulation of Hall Effect Thrusters with First-Principle Anomalous Transport Ullrich SIEMS - SPARC Industries Sarl - Luxembourg
15:40	461 - Jet-jet Interaction Techniques for Crater Modification in Powered Descent Soft-Landing Scenarios Takahiro UKAI - Osaka Institute of Technology - Japan	729 - INVICTUS: a Propulsion System Overview Patrick RENNIE - Frazer-Nash Consultancy - United Kingdom	438 - Hot-Fire Investigation of Aerospike Expansion Flow for Clustered LOX/Methane Engines Jan SIEDER-KATZMANN - Technische Universität Dresden - Germany	642 - Application of a Modular ExB Probe for Detection of Multiply Charged Ion in Electrodeless Plasma Thrusters Borja BAYÓN-BUJÁN - Universidad Carlos III de Madrid - Spain	770 - EcosimPro ESPSS modelling for preliminary design of propulsion systems for planetary missions Ludovica FORMISANI - European Space Agency - The Netherlands	416 - Austria's first ESA_Lab@UAS WN & FOTEC: Testing facilities for propulsion systems and small satellite development Bernhard SEIFERT - FOTEC Forschungs- und Technologietransfer GmbH - Austria	341 - Development of Control Electronics for a 100 W Class Hall Effect Thruster Justin ONG - Aliena Pte Ltd - Singapore	227 - Hall Effect Thruster plume semi-analytical model results vs numerical simulations Andrea BINCI - Thales Alenia Space - Italy
16:00	509 - Assessment of NOx Formation in Plume Post-Combustion for Reusable Launch Vehicles Tim HORCHLER - German Aerospace Center (DLR) - Germany	748 - Physics-based Multiphase Performance Analysis of a Slit-Type Solid-Fuel Ramjet Considering Local Regression Rate Youngjae KIM - Korea Aerospace University - South Korea	510 - Numerical Study of Retro-Propulsion of an Aerospike Engine during Atmospheric Re-Entry Nathanaël ROULAND - CERFACS - France	663 - Numerical Modeling of RMF-Driven Plasmoid Acceleration for Electrodeless Lorentz-Force Thrusters Using Induction Foam Luca ARMANI - GAUSS Srl - Italy	178 - Priming and Venting: co-simulation modelling using EcosimPro and OpenFOAM Enrico BRAGALLI - OHB System AG - Germany	502 - Reduction of Electromagnetic Disturbances in a Wireless Power Transfer System Used in Thrust Stands for Micro Propulsion Systems Ten ARAI - University of Tokyo - Japan	423 - The Multi-Voltage Power Processing Unit (MVPPU) from Development to Industrialization Roberto GUTIERREZ - Airbus Crisa - Spain	334 - Analysis of Instability-induced Electron Anomalous Transport in Hall Effect Thrusters via Full-fluid Axial-azimuthal Simulations Davide POLI - Universidad Carlos III de Madrid - Spain
16:20	513 - Quantitative 3D Assessment of Material Alteration in Plume-Surface Interaction Tests Theodor HEUTLING - TU Dresden - Germany	661 - Coupled Combustion-Regression Effects on Solid-Fuel Ramjet Intake and Nozzle Optimization Francesco MARGANI - Sapienza University of Rome - Italy	724 - ASPIRER – How to Fix an Aerospike Engine Martin PROPST - Technische Universität Dresden - Germany		547 - Future Small Spacecraft AOCs: A Simulation-Based Analysis of Performance Drivers Mrazek TOMAS - Technical University of Munich - Germany	742 - Development of the LSVC Facility for High Power Electric Propulsion Testing at CIRA Marco INVIGORITO - Italian Aerospace Research Centre - Italy	639 - PPU SERIES: PLATINO & PULSE 1-kW SITAEEL PPU Qualification and Coupling Test Campaign Results Paolo MONTUORO - Sitael Spa - Italy	549 - Azimuthal Instabilities Driving Electron Transport in Hall Thrusters: Insights from GPU PIC Simulations Guillermo CUERVA-LAZARO - Universidad Carlos III de Madrid - Spain
16:40	COFFEE BREAK							
17:10	<b>SESSION 73</b> Turbo Pumps 1	<b>SESSION 74</b> LRE Control - Health monitoring	<b>SESSION 75</b> Nozzle design, development and tests	<b>SESSION 76</b> Modeling of Electric Thrusters 1	<b>SESSION 77</b> Cathodes 3	<b>SESSION 78</b> Flight Systems Architecture & Testing	<b>SESSION 79</b> Propulsion Systems for Exploration Missions 2	<b>SESSION 80</b> Propellant Storage and Distribution 2
Chair	-	-	-	-	-	-	-	-
17:10	094 - Design and Optimisation of Independent Turbopumps for a Two Gas Generator Cycle Rocket Engine Lois MARTINS PIÑON - EPFL - Switzerland	415 - Transient Thermal-Fluid Network Modeling for Throttling Control in Fell Staged Combustion Cyle Engines Vasileios PASTRIKAKIS - SoftInWay UK Ltd - United Kingdom	105 - Assessment of Thrust Vector Control in a Dual-Bell Nozzle Léa ROCCHISANI - CNRS/INSA-CVL - France	115 - Verification of a full electromagnetic code with Finite-Difference adaptive mesh refinement in a rotating magnetic field scenario for enhanced plasma propulsion Federico NEGRO - Università Niccolò Cusano - Italy	384 - Electron extraction characteristics of a nozzleed hollow cathode for a multimode acceleration coaxial (MAC) thruster Shirasu KENTO - Japan Aerospace Exploration Agency - Japan	689 - Impact on Propulsion Systems of the New International Regulations Christophe BONNAL - MaiaSpace - France	149 - Preliminary Feasibility Study of Aerobraking and Aeromaneuvering Reusable Orbital Transfer Vehicles Shinjiro TSUJII - JAXA - Japan	649 - An Experiment to Control Boil-Off in Propellant Tanks Aboard a Cryogenic Orbital Payload Lucas LEAL ABADI - UPC - Spain
17:30	114 - Experimental Suction Performance Investigation of the LUMEN Fuel Turbopump Christopher GROLL - Deutsches Zentrum für Luft- und Raumfahrt - Germany	245 - AI-Driven Health Monitoring Systems for Enhanced Propulsion Reliability Sébastien PRIOTTO - ARIANE GROUP - France	141 - Experimental Study on Whistling Tone Formation in Rocket Nozzle Throats Ralf STARK - German Aerospace Center - Germany	347 - Particle-in-cell modeling of an enhanced electrodeless plasma thruster with rotating magnetic fields Filippo CICHOCKI - ENEA - Italy	622 - Design and Characterization of a MEMS-Scale Thermionic Cathode Yuheng DENG - University of Southampton - United Kingdom	206 - Warm-Gas Propulsion Subsystem Development for RPO Mission Adam CUDA - Stellar Exploration - Czech Republic	646 - Enabling Interplanetary CubeSat Transfers with Multimode Propulsion: From Earth Escape to Mars Orbit Insertion Andrea FORESTIERI - Politecnico di Torino - Italy	652 - An Experiment to Control the Dynamics of Bubbles in Propellant Tanks Aboard a Cryogenic Orbital Payload Lucas LEAL ABADI - UPC - Spain
17:50	766 - 20 kN HTP Turbopump Design & Development Edward FLETCHER - LENA Space - United Kingdom	379 - Safe Imitation Learning for Optimal Thrust Control of Rocket Engines based on Control Barrier Functions Felix EBERT - Technische Universität München - Germany	165 - Heat Transfer Comparison of Graphite and C/C SIC Inserts in Hybrid Rocket Nozzles Using Coupled Fluid Structure-Simulations Jan Erik ZERIADTKE - German Aerospace Center (DLR) - Germany	478 - Efficient Verification of PIC Collision Operators Using the Wasserstein Metric Philip PETERS - Technische Hochschule Mittelhessen - Germany	681 - Study of High-Energy Ion Production using Laser-Induced Fluorescence Carla GUIDI - University of Pisa - Italy	516 - Qualification Status of Cold Gas Thrusters for Scientific and Commercial Missions Dawid JAHN - AST Advanced Space Technologies GmbH - Germany	741 - Development of a CubeSat Propulsion System for Next-Generation Deep Space Missions Daykin-Iliopoulos ALEXANDER - Mars Space LTD - United Kingdom	
18:10	198 - Improvement of the Turbopumps for LE-9 Engine of H3 Launch vehicle Takayuki KOBAYASHI - IHI Corporation - Japan	535 - A Comparative Study of Deep Reinforcement Learning and Model Predictive Control for Liquid Propellant Rocket Engine Control Jonas DAUER - DLR - Germany	313 - Global Stability of Screech Resonance in Free Shock Separation Chi Co TRAN - Monash University - Australia	654 - Quantum Simulation of Electric Propulsion Systems Aeriana NARBONNE - Royal Military College of Canada (RMC) - Canada	730 - Advances in Electron Source Technologies for Electric Propulsion at Mars Space Ltd. Daykin-Iliopoulos ALEXANDER - Mars Space LTD - United Kingdom	662 - Design of Variable Thrusters for Thrust Modulations in Solid Propellant Divert and Attitude Control Systems (SDAC) using Pintle Valves. P SUNITHA - NIT - India	754 - BepiColombo Solar Electric Propulsion System (SEPS) Test Bench Activities Daykin-Iliopoulos ALEXANDER - Mars Space LTD - United Kingdom	
18:30	413 - Cryogenic Hydrostatic Bearing Development Vasileios PASTRIKAKIS - SoftInWay UK Ltd - United Kingdom	170 - Data-Driven Health Monitoring and Fault Detection for the RS-25 Staged Combustion Liquid Rocket Engine in EcosimPro/ESPSS framework Marco FABIANI - SAPIENZA UNIVERSITY OF ROME - Italy	604 - PARSEC - Breadboard Development for Plasma-Based Separation Control in Over-Expanded Nozzles Daniele TOZZI - Politecnico di Torino - Italy	648 - 3D PIC Simulations of ExB discharges with azimuthal Fourier modal decomposition Eduardo AHEDO - Universidad Carlos III de Madrid - Spain	732 - Final Technical Assessment and Qualification of the CHEOPS-VHP-BB High-Current Hollow Cathode Marconcini FRANCESCO - Aerospazio Tecnologie srl - Italy		781 - Conceptual design and mission analysis of a range propulsion system based on plasma applied to interstellar travels. Eduardo MARTÍNEZ-ABARCA - Universidad Politécnica de Madrid - Spain	

END OF DAY 3

Gala Dinner & Awards Ceremony

08:00		WELCOME COFFEE							
		PLENARY SESSION							
08:30		KEYNOTE SPEECH #4 Future crewed LEO infrastructures - Propulsion challenges - Max HAOT, CEO of VAST							
09:00		INTERSESSION							
		ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8
09:10		SESSION 81 Turbo Pumps 2	SESSION 82 LRE Modeling	SESSION 83 LRE Components Manufacturing	SESSION 84 On-Orbit Refueling 2	SESSION 85 Development & Qualification of Hall Thruster Systems - High Power	SESSION 86 Propellant Tanks 3	SESSION 87 Modeling of Electric Thrusters 2	SESSION 88 High-Thrust Propulsion for Interplanetary Missions
Chair	R	-	-	-	-	-	-	-	-
09:10	1	209 - Comparison between Hydrodynamic Calculation considering Vaporization and Experimental Results of Surface Textured Mechanical Seals for Reusable Rocket Engine turbopumps Kenta UCHIDA - Eagle Industry Co., Ltd. - Japan	004 - Static Modelling of an Open-Cycle Liquid Rocket Engine Turan ÇOPURO&#286;LU - ROKETSAN - Turkey	121 - Additive Manufacturing of a Rocket Engine Torch Igniter for Low-Cost High-Cadence Serial Production Marco VAN DER LIST - Aerospace Propulsion Products B.V. - The Netherlands	142 - Bipropellant Transfer System Failure Tolerant Techniques on Gateway Emilien GENET - Thales - France	162 - Stability Domain Investigation for TANDEM 20kW-class Hall Thruster Simone SCARANZIN - Aerospazio Tecnologie S.r.l. - Italy	216 - Design for demise development for high pressure propellant tanks Simone HARTL - Peak Technology - Austria	175 - Model for Plasma Plume Interaction on the Example of the HEMP Thruster Clara SCHAEFER - OHB - Germany	448 - The LEROS 4: A High Thrust Spacecraft Engine for Interplanetary Applications Coxhill IAN - Nammo (U.K.) - United Kingdom
09:30	2	155 - Numerical Analysis of Labyrinth Seals for Cryogenic Turbopumps Niklas HAIN - DLR - Germany	381 - System-Level Simulation of the RV-X Expander-Bleed Cycle Rocket Engine Yu DAIMON - University of Tsukuba - Japan	246 - Ultra-Compact 3D-Printed Heat Exchanger (UC3D-HX) for Methane-Oxygen Engines Dominic TAN - The Exploration Company - France	491 - Orbit Fab Refuelling Interfaces Qualification Status and the Roadmap to Orbital Refuelling Sebastian HILL - Orbit Fab Ltd - United Kingdom	402 - Effect of Channel Interaction on the Performance of the TANDEM 20-kW Nested Hall Thruster Guido GIAMMARINARO - University of Pisa - Italy	540 - Development of Modular Demisable Aluminum Propellant Tanks with Wide Propellant Compatibility Krystof HAJEK - Stellar Exploration s.r.o. - Czech Republic	323 - Ion thruster Plume Modelling with a Three-Dimensional Particle-In-Cell Approach Federico CESCONE - University of Padua - Italy	327 - Hybrid autophagy propulsion to advance high-thrust in-space mobility: development toward qualification Martin GROS - Alpha Impulsion - France
09:50	3	153 - HCF Rotor Optimization of a Rocket Main Stage Engine Turbine Rotor Pablo MARTINEZ RODRIGUEZ - Ariane Group - Germany	506 - Development of a Control Oriented State Space Model for an Expander Bleed Type Engine Vincent BAREISS - German Aerospace Center - Germany	553 - Synergies for Developing and Industrialisation of Liquid Rocket Engines Centrifugal Pumps Dan IFRIM - Romanian R&D Institute for Gas Turbines COMOTI - Romania	626 - Reverser Turbo-Brayton Coolers – Must-have for Critical Observation Missions, Cryogenic Storage and Refuelling In-orbit and In-situ Resource Utilization Matthieu DALBAN-CANASSY - Absolut System - France	768 - Qualification Progress and Mission-Enabling Capabilities of the 12-kW Hall-Effect, Advanced Electric Propulsion System (AEPS) Thruster George WILLIAMS - NASA - United States	696 - A Scalable Demisable Propellant Tank Architecture for Launchers and Satellites Roger MOLLAND - Nammo Raufoss AS - Norway	377 - Novel Multi-Point Laser-Supported Plasma Concept for CW Laser Propulsion: Numerical and Experimental Feasibility Study Hideki MORIAI - Kanazawa Institute of Technology - Japan	734 - Design and Optimization of a Carrier Propulsion System for Lunar Transfer and Orbit Capture Domenico DI RAGO - Politecnico di Milano - Italy
10:10		COFFEE BREAK							
10:40		SESSION 89 Tests Facilities & Platforms	SESSION 90 Propellant Tanks	SESSION 91 LRE Ignition Systems 1	SESSION 92 Valves for Propulsion Systems	SESSION 93 Air-Breathing Electric Propulsion 2	SESSION 94 Electric Propulsion Qualification & Flight Programs 2	SESSION 95 Water Propulsion Systems 2	SESSION 96 Ignition & Combustion of Chemical Propellants 2
Chair		-	-	-	-	-	-	-	-
10:40	1	091 - Estimation of Vibration Environment and Structural Assessment for an Experimental Semicryo Rocket Engine Vivek S - ISRO - India	005 - Design, Development, and Verification of Leak-Tightness for COPV Interface Georg SÖLLINGER - Peak Technology - Austria	177 - Development and Testing of a GOX/GCH4 Torch Igniter for a Lunar Lander Engine Julian MATT - The Exploration Company - France	196 - Relief Valve Development - How a Simple Test at Near-Ambient Challenged an Otherwise Robust Design Elisabeth FIRCHAU - Omnidea-RTG - Germany	397 - Particle-in-Cell model of an air-fed hollow cathode for air-breathing electric propulsion Francesco TACCOGNA - CNR - Italy	052 - Building Flight Heritage: In-Orbit Operations and Lessons Learned from Dawn Aerospace's Propulsion Systems Nicolas FOSSEPREZ - Dawn Aerospace - The Netherlands	144 - Water Resistojet Propulsion Systems for Small Satellites Dave GIBBON - Surrey Satellite Technology Ltd - United Kingdom	085 - Enhancing the combustion interruption reliability of a laser-heated propellant microthruster by using LiF nanoparticles. Timothé CHILOU - Tokyo Metropolitan University - Japan
11:00	2	251 - European Research and Technology Test Facility P8.3 for full Cycle Investigations of Subscale Rocket Engines. Commissioning and first Operation Experience Dmitry SUSLOV - Institute of Space Propulsion, German Aerospace Center - Germany	046 - Evaluating the Predictive Capabilities of a Phase Change Model in OpenFOAM compressibleVoF Solver Antonio CANTIANI - von Karman Institute for Fluid Dynamics - Belgium	202 - Multiplexed Laser Ignition on a Subscale Multi Chamber Set-up Roland KAESS - Ariane Group - Germany	445 - Titanium Torque Motor Valve for Green Monopropellant Thrusters Thomas BURNS - Moog Inc. - United States	472 - Characterization of a novel facility for air-breathing electric thrusters with a probing arm Alfio Emanuele VINCI - Scuola Superiore Sant'Anna - Italy	586 - Development and Qualification of the HEMPT 3050-C: A 1.5 kW Thruster for Satellite Constellations Ralf HEIDEMANN - Thales Germany GmbH - Germany	200 - Water Propulsion - Developments towards flight Nicholas HARMANSA - ArianeGroup - Germany	264 - A Systems Engineering Analysis of Rocket Plasma-Assisted Combustion Giorgio CRESCENZO - University of Salerno - Italy
11:20	3	569 - Commissioning of a 40kN Class Rocket Test Facility for LOX, LCH4 and Subcooled-C3H8 Propellants Iain WAUGH - Airborne Engineering Ltd - United Kingdom	356 - Enhancing Predictive Accuracy in Cryogenic Tank OD Simulations via Reduced Order Modelling Alessandra ZUMBO - Politecnico di Torino - Italy	359 - Experimental Tests of Resonance Ignition System with GN2 and Effects of Optimized Geometry Emiliano FORTI - AVIO S.p.A. - Italy	645 - Thruster Valves Development - Lessons Learned and Next Steps Krzysztof PIETRZAK - &#321;ukaszewicz Research Network &#8211; Institute of Aviation - Poland	566 - Development and Validation of a Novel CubeSat-scale Air-breathing Electric Propulsion System Vittorio GIANNETTI - Celeste S.r.l - Italy	624 - HEMPT-EVO Qualification and Production Status Angelo GENOVESE - THALES Deutschland - Germany	638 - Characterization of Ionization and Acceleration in a Water-Vapor Hall Thruster Using Laser-Induced Fluorescence Aoma FUJIMORI - The University of Tokyo - Japan	650 - Effect of Methanol Addition on the IDT and Spray Combustion of a Hypergolic Green Bipropellant Fabio MOTA - Federal University of ABC (UFABC) - Brazil
11:40	4	682 - Commissioning and Testing of Scotland's MachLab Propulsion Test Facility Krzysztof BZDYK - University of Glasgow - United Kingdom	380 - Numerical Analysis of Liquid Expulsion from a Spin Tank and the Effect of Propellant Management Devices on Suppressing Gas Ingestion Yusei YAHATA - Graduate School of Engineering, The University of Tokyo - Japan	409 - Direct Plasma Laser Ignition System for Liquid Rocket Engines - Flight Maturation and Industrialization Ashwyn GROOT - Aerospace Propulsion Products B.V. - The Netherlands	756 - Development of a qualified thruster valve into an in-line refuelling valve for manned/crewed applications Barry ALDWELL - Nammo Ireland - Ireland	592 - Time-Averaged Plasma Diagnostics in the Plume of an Air-Breathing-Relevant Helicon-Based Thruster Running on Air and Noble gases Vincent DELBOSQ - KREIOS SPACE SL - Spain	711 - Initial Mission Results from Hēki – A Superconducting Magnet Technology Demonstration for Electric Propulsion Applications Randy POLLOCK - Victoria University of Wellington - New Zealand	519 - Analysis of the Effects of Condensed Combustion Product Powderization on Thrust Performance in a Water-Magnesium Wire Micro Propulsion System Minwoo HAN - The University of Tokyo - Japan	701 - Combustion Chamber Optimization for a Green Monopropellant Based on Nitromethane Miguel Cipriano GARCÉS - German Aerospace Center (DLR) - Germany
12:00	5	772 - H-IMP: A Test Bench for Cryogenic Propulsion – Design Innovations, Advanced Diagnostics, Simulation Models, and Validation Plan Federico DE FILIPPIS - CIRA Italian Aerospace Research Centre - Italy	520 - Thermohydraulic Modeling of Cryogenic Tanks with Large-Eddy Simulation Cindy MERLIN - ArianeGroup SaS - France	522 - Spray Visualization and Atomization Evaluation of Novel Impinging Schemes Luca CAFFIERO - Politecnico di Milano - Italy	776 - Design and Verification Approach for Small Satellite Relief Valve Krzysztof PIETRZAK - &#321;ukaszewicz Research Network &#8211; Institute of Aviation - Poland	606 - RED: RAM-EP in-orbit Demonstrator Stefan GREGUCCI - SITAEL - Italy	740 - One Web Constellation Propulsion Sub System, Innovation & Challenges Fabien MALET - Airbus Defence & Space - France	019 - Experimental Study on a Multi injection type Water-fed Pulsed Plasma Thruster Hoshi AKINORI - Tokyo Metropolitan University - Japan	475 - Design of a Tapered Combustion Chamber for Flame Position Stabilization Using Wire-Shaped Fuel in a Chemical Propulsion System Masaki FUJII - The University of Tokyo - Japan
12:20		LUNCH							

PLENARY SESSION

PLENARY ROUND TABLE #5

Space Propulsion at a Turning Point: Reusability, Long-Duration Operations, In-Orbit Refueling and Nuclear Options | *Moderator : François BUFFENOIR, Way4Space*  
 Cédric DUPONT, The Exploration Company - Christophe BONNAL, AAE/EUCASS - Marco DI CLEMENTE, ASI - Fabienne TREMBLAY, ArianeGroup - Joe CASSADY, L3 Harris - Charles BEIGBEDER, Expansion VC

INTERSESSION

	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8
13:50	PLENARY ROUND TABLE #5							
14:50	INTERSESSION							
15:00	SESSION 97 Turbo Pumps 3	SESSION 98 Detonation Engines 2	SESSION 99 LRE Ignition Systems 2	SESSION 100 Ignition & Combustion of Chemical Propellants 3	SESSION 101 Air-Breathing Electric Propulsion 3	SESSION 102 Non-Conventional Hall Thrusters	SESSION 103 Water Propulsion Systems 3	SESSION 104 Nuclear Propulsion 2
Chair	-	-	-	-	-	-	-	-
15:00	1 338 - Accelerated Discovery of Multi-Material Turbine Architectures for Reusable Oxygen-Rich Turbomachinery Mirco NYDEGGER - Massachusetts Institute of Technology - United States	284 - Toward Regeneratively Cooled RDRE: A KARI Initiative for Design Parameter Evaluation with a Standard RDRE Combustor Dongwoo CHOI - Korea Aerospace Research Institute - South Korea	530 - Performances of Doped Triglyme/Hydrogen Peroxide Hypergolicity in Thruster-like Conditions Célia SOUDARIN - ISAE ENSMA - France	463 - Improvements on the Throttleable Liquid Rocket Engine utilizing High-Test Peroxide Michal RANACHOWSKI - Lukaszewicz Research Network - Institute of Aviation - Poland	089 - Advanced Development and Validation of Atmosphere Breathing Ion Engine Technology for LEO and VLEO Applications: Engine Optimisation and Mathematical Modelling Guy PETERS - Quanta Engineering Ltd - United Kingdom	047 - Hall Thruster Operation Using Magnesium and Calcium as In-Situ Lunar Propellants Adam PARKS - University of Southampton - United Kingdom	567 - Progress Toward Solar-to-Propellant Water-Based Propulsion: Programmatic Advances and Prototypes Development in the Green SWaP Project Riccardo CAMBERTONI - TU Delft - The Netherlands	107 - Influence of the Power Generation Cycle Design on the Development of an Ammonia-Fed Bimodal Nuclear Propulsion System Alberto TACCHI - University of Pisa - Italy
15:20	2 657 - Flow Field Reconstruction Applied on a Sparse Sensed Turbopump Manifold Sarah KRAMER - ArianeGroup GmbH - Germany	451 - Towards Steady-State Operation of Rotating Detonation Combustors Daniel BANUTI - Karlsruhe Institute of Technology - Germany	596 - Euler-Euler and Euler-Lagrange Simulation of Laser-Induced Ignition under Flashing Conditions Christian SESSLER - Institute for Reactive Flows - Germany	473 - Study on spray characteristics of liquid-liquid pintle injector using mechanical and optical patternators Noritaka SAKO - Japan Aerospace Exploration Agency - Japan	099 - Towards the Experimental Demonstration of Cryogenic Propellant Regeneration Cameron LESLIE - Cranfield University - United Kingdom	127 - Development of a 2kW-class Double Stage Hall Thruster Utilizing Zinc Propellant Yang XIONG - Harbin Institute of Technology - China	595 - Characterization of novel regenerative cooled ceramic thruster for water electrolysis propulsion systems Jérôme HILDEBRANDT - Institute of Space Systems University Stuttgart (IRS) - Germany	393 - Ammonia Catalytic Decomposition to Enhance the Performance of the Bimodal Ammonia Nuclear Thermal and Electric Rocket Natasha PALAZZI - University of Pisa - Italy
15:40	3 242 - Testing and Validation of the Oxidizer Electric Pump Assembly for the Huracan Engine mario HERNANDEZ - The Exploration Company - France	460 - Experimental Investigation of a Coupled Multi-Cylindrical Rotating Detonation Engine with Slit Akihito NAKAMA - Nagoya University - Japan	611 - Subscale Testing of the Multiplexed Fiber-Based Laser Ignition System for the ENLIGHTEN Engine Demonstrator Alexander BEE - German Aerospace Center (DLR) - Germany	481 - Ignition and Combustion Analysis of Catalytic Hypergolic Fuel (HIP_11) with Hydrogen Peroxide (HTP 980) in Confined Impinging Jets Configurations Caroline CHABAUD - PPRIME laboratory - France	332 - Plasma Chemistry in RF Discharges with Nitrogen-Oxygen-Argon mixtures: Model and Experimental Setup Alfio Emanuele VINCI - Sant'Anna School of Advanced Studies - Italy	257 - Plume Diagnostics of a Double-channel TAL-type Hall Thruster Nanami TAKIGUCHI - Tokyo Metropolitan University - Japan	610 - Comparative analysis of water electrolysis versus conventional satellite propulsion systems Jérôme HILDEBRANDT - Institute of Space Systems University Stuttgart (IRS) - Germany	395 - Cycle Analysis of a Nuclear Bimodal Propulsion System using Ammonia as the Propellant Stefano GIUNTINI - University of Pisa - Italy
16:00	4 250 - E-assisted Turbopump Demonstrator: a Novel Pump-Fed Approach not only for 30kN Liquid Rocket Engines Jan SNÁŠEL - Inpraise Systems s.r.o. - Czech Republic	512 - Design of an Rotating Detonation Combustor for Heat-Flux Measurements Florian DITSCHKE - TUD Dresden University of Technology - Germany	692 - Ignition Sequencing Strategies for minimum ignition overpressure in LOX/methane space propulsion thrust chambers Michael BÖRNER - DLR - Germany	571 - Evaluation of Thermal Imaging for the Investigation of the Heat Release in a Resonance Ignition System Tom LINNEMANN - TU Braunschweig - Germany	779 - Atmospheric Breathing Electric Propulsion Inlet Alexandru-Claudiu CANCESCU - National Research and Development Institute for Gas Turbines COMOTI - Romania	420 - 2D Hybrid Plasma Simulations of the CHT200 Cylindrical Hall Thruster Iñaki FERNANDEZ - Universidad Carlos III de Madrid - Spain	616 - Mission Concepts and Propulsion Trade-Offs for a Large-Scale Enceladus Exploration Fabian RIEGELSBERGER - Technical University of Munich - Germany	400 - Innovative Particle Bed Nuclear Reactor Design for Space Power and Propulsion Applications Elia PUCCINELLI - University of Pisa - Italy

COFFEE BREAK

16:50	SESSION 105 E Pump propulsion systems	SESSION 106 Propellant Behavior Modeling	SESSION 107 Iodine Thrusters 2	SESSION 108 Electrospray Propulsion 2	SESSION 109 Experimental Techniques 2	SESSION 110 Cooling & Materials for Chemical Propulsion	SESSION 111 Water Propulsion Systems 4	SESSION 112 Pressure Regulators
Chair	-	-	-	-	-	-	-	-
16:50	1 256 - First E-Pump Cryogenic Engine in Europe Pierre MORIN - The Exploration Company - France	293 - Experimental and Numerical Study of Cavitating Bubble at Tank Wall Alessandro NOVI - Von Karman Institute - Belgium	331 - One-Dimensional Spatio-Temporal Multi-Species Fluid Modeling of Iodine-Fed ECR thrusters. Yannice SOULE - ONERA, Université Paris-Saclay - France	197 - Validation of ion emission model for actively fed porous ionic liquid electrospray thrusters Koki TAKAGI - Yokohama National University - Japan	497 - Diagnostics of Hollow Cathode Transient Behavior Using Fast Langmuir Probes and Two-Color Pyrometry Temperature Measurements Takato MORISHITA - JAXA - Japan	043 - Nb-Alloys, the Next Generation Material for High-Temperature Applications in space Bahar FAYYAZI - TANIOWIS GmbH - Germany	435 - Building Test Capability to Enable Water-Based Propulsion Development at URA Thrusters Danylo SHCHERBAK - URA Thrusters Ltd. - United Kingdom	322 - Development of Next Generation High-Flow Electric Pressure Regulators for Chemical Propulsion Systems Thomas BRUS - AST Advanced Space Technology - Germany
17:10	2 453 - Validation of an HTP E-Pump for Green Propulsion Systems through Water Tests Jiri KOZAK - Inpraise systems - Czech Republic	411 - Numerical Analysis of the Propellant Behaviour inside the Ariane 6 Upper Stage LOX/LH2 Cryogenic Tanks Fabrice MATHEY - Air Liquide Advanced Technologies - France	440 - Design, development, and qualification of REGULUS-150-I2 Daniele PAVARIN - Technology for Propulsion and Innovation S.p.A. - Italy	321 - Promoting Axial Emission from Porous Electrospray Ion Thrusters to Improve Thruster Lifetimes – Insight from Direct Optical Visualisation Euan DONOVAN-HILL - University of Southampton - United Kingdom	773 - Computed Tomography of Electrospray Emitter Arrays: High-Resolution Reconstruction and Diagnosis of Emission Non-Uniformity Maurizio SAGGIANI - IENAI SPACE - Spain	550 - Conjugated Heat Transfer Simulation of Multiphase Flow in Regenerative Cooling Channels Zain QAZI - DeltaOrbit GmbH - Germany	454 - Design of a Feeding System for a Water Based Dual Mode Propulsion System in a 6U Cube-Satellite Simone Gabriele ATTOMA - MIPRONS - Italy	388 - Low-noise mechanical pressure regulator for cold gas propulsion systems in scientific missions Michael HAPPL - FOTEC Forschungs- und Technologietransfer GmbH - Austria
17:30	3 568 - Functional Tests of E-pumps Designed for RELIANCE Rocket Engine with MMH and MON3 Jiri KOZAK - Inpraise systems - Czech Republic	418 - CRYALIS – A European Cryogenic Storage and Refuelling In-orbit Demonstration Kathleen BLYTH - Absolut System - France	474 - Development and testing of an iodine-fed RF source for spacecraft electric propulsion Alfredo MARIANACCI - ICARE Laboratory/CNRS - France	623 - Electric Field Prediction in Externally Wetted Electrospray Thrusters using Adaptive Sampling Optimized Gaussian Surrogates Upasana CHOUDHURI - RAPPEL Lab, Royal Military College of Canada - Canada	761 - Novel Impulse-Thrust Measurement Technique Using an Arc of Speaker-Driver Inertial Balances Leichauer PHILIP - Magdrive Ltd - United Kingdom	255 - Application and Validation of Transient Fuel Film Cooling Analysis to Hypergolic Thrusters Austin MORSE - Agile Space Industries - United States	575 - Functional And Performance Testing Of 1N Water Electrolysis Propulsion System Breadboard Jeni VILAG - COMOTI Romanian Research & Development Institute for Gas Turbines - Romania	576 - Development Status of Mechanical Pressure Regulator for Use on LISA Mission Marcus SJÖBERG - OHB Sweden AB - Sweden
17:50	4 360 - A Holistic Approach for Electrical Pumps Development Dan IFRIM - Romanian R&D Institute for Gas Turbines COMOTI - Romania	500 - A study on the Instability of Subcooled Flow Boiling in Parallel Channels Matsuda YOHEI - The University of Tokyo - Japan	684 - Wien filter analysis of ion species composition in an iodine-fed Hall thruster Francesco Mattia BIANCHI - ThrustMe, LAPLACE - France	774 - Effect of a Beam Target on the Performance and Stability of a Passively-Fed, Externally-Wetted Electrospray Thruster Robin Josef Paul SCHOLTES - Ienai Space/University Carlos III Madrid - Spain		721 - Update from Years of Compatibility Research Done on HTP Based Propulsion Systems Ane LODGAARD - Nammo Raufoss AS - Norway	607 - Optimized Dual-Mode Water Fed Micro Propulsion Architecture with Integrated Reversible Fuel Cell Raviteja VEMULA - University of salento - Italy	578 - Development of a Mechanical Pressure Regulator for Chemical Propulsion Systems Marcus SJÖBERG - OHB Sweden - Sweden

INTERSESSION

KEYNOTE SPEECH #5

CLOSING ADDRESS - TBD

PhD Awards Ceremony sponsored by EUCASS

END OF DAY 4

FRIDAY 22 MAY 2026 // DAY 5

08:00

## TECHNICAL VISITS

*Online registration is mandatory - Detailed agenda available online*

TECHNICAL VISIT #1 – SITAEL premises in Bari

TECHNICAL VISIT #2 – ASI premises in Matera

TECHNICAL VISIT #3 – Grottaglie Airport Test Bed (via DTA)

12:30

END OF SP2026 CONFERENCE

**WARNING : THIS PRELIMINARY PROGRAM IS UNDER CONSTRUCTION  
SOME PAPERS NOTIFIED AS ACCEPTED MAY BE STILL MISSING IN THIS VERSION DUE TO SESSION BUILDING IN PROCESS**

## REGISTER NOW TO PARTICIPATE IN SPACE PROPULSION CONFERENCE!

*Join us in Bari and take advantages of all that this Conference programme offers: technical sessions, round tables, keynotes and networking opportunities in our large exhibition area.*

For more information: [www.3af-spacepropulsion.com](http://www.3af-spacepropulsion.com)

### CONFERENCE VENUE

Space Propulsion 2026 will be held at **Nueva Fiera del Levante**, a modern seafront venue in the center of Bari.

Lungomare Starita, 4, 70132 Bari, Italy  
<https://fieradellevalente.it/>



### ACCESS

**Bari Karol Wojtyła International Airport (BRI)** is located approximately 10 km from Bari city center. 20 minutes by taxi to city center or Congress Center (Taxi 30€ / Public transport 1,50€) Bus shuttle service (Tempesta or AMTAB) runs approximately every 40–60 minutes.

**Flight durations to Bari** (direct flights, approximate):

• Paris : .....	2h15	• Lisbon: .....	3h15
• Amsterdam: .....	2h30	• Rome: .....	1h05
• Berlin: .....	2h00	• London: .....	2h55

For more information on air traffic, please visit: <https://www.aeroportidipuglia.it/bari>  
Italy is part of the Schengen Area. European Union citizens may travel using either a valid passport or national identity card. Travelers from non-Schengen countries must present a valid passport, typically valid for the duration of the stay.

### EVENT LOCATION & ACCOMMODATION

**Fiera del Levante** is a landmark venue on the Adriatic coast, offering flexible spaces ideal for international congresses, exhibitions, and business meetings.

**Many advantages:**

- Modern and spacious, with seafront views
- Only **15–20 minutes from Bari Airport**
- Easy access to public transport and taxis
- Located **10 minutes from Bari Centrale** (main train station)
- Several hotels (3\* & 4\*) **within 5–10 minutes by car**
- Over **6,000 hotel beds within 2km** of the venue
- Walkable distance to Bari's historic center and waterfront for **social programme venues**

Learn more about Bari here: <https://www.viaggiareinpuglia.it/at/5/bari>



### STEERING COMMITTEE

Marco **DI CLEMENTE** (ASI)  
Tommaso **GHIDINI** (ESA)  
Jean-François **GUERY** (ArianeGroup)  
Didier **MALET** (3AF)  
Jamilia **MANSOURI** (ESA)  
Chiara **PERTOSA** (Sitael)  
Giorgio **SACCOCCIA** (ESA/3AF)

### CONFERENCE SECRETARIAT

3AF • 6, rue de Galilée • 75016 Paris – France  
Aude **LURBE**  
Phone: +33 (0)1 56 64 12 37  
E-mail: [spacepropulsion@3af.fr](mailto:spacepropulsion@3af.fr)  
Web : [www.3af-spacepropulsion.com](http://www.3af-spacepropulsion.com)

### EXHIBITION

If you are interested in receiving the exhibition opportunities details, please contact  
Jennifer **SAVINA**  
Mob : +33 (0)6 09 42 83 88  
Email: [event@3af.fr](mailto:event@3af.fr)