

**PRELIMINARY
PROGRAMME**

**10TH EDITION OF THE
SPACE PROPULSION
CONFERENCE**

20
SPACE
PROPULSION
26

18-21 MAY 2026
BARI • ITALY

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Association Aéronautique
et Astronautique de France



SITAEL



URO



SUNDAY 17 MAY 2026 // DAY 0

16:00
18:00

Early registration

MONDAY 18 MAY 2026 // DAY 1

REGISTRATION AND WELCOME COFFEE

PLENARY SESSION

WELCOME ADDRESSES : 3AF/ ASI / Regione Puglia

CONFERENCE INTRODUCTION : Jamila MANSOURI & Jean-François GUERY, Conference co-chairs

ROUND TABLE #1 : The future of Space Propulsion Industry: fulfilling expectations on Programs and policies | Moderator : Chiara MANFLETTI, TUM
Teodoro VALENTE, ASI - Bruno VIEILLE, CNES - Shujiro SAWAI, JAXA - TBD, ESA - Susanne HECKRODT, DLR - Juan Carlos CORTES, AEE

ROUND TABLE #2 : Why VLEO is a timely, policy relevant topic ? | Moderator : Chiara PERTOSA, SITAEL
Gal Luca DE MARTINIS (Teledife) - DG DEFIS, Giuditta MONTESANTI - Redwire, TBD - Exoterra, TBD

LUNCH BREAK

ROUND TABLE #3 : Launchers and associated infrastructures : New propulsion challenges | Moderator : Louis LAURENT, ESA
Hervé GILIBERT, ArianeGroup - Ettore SCARDECCHIA, Avio - Adria ARGEMI, PANGEA - Robin HUBER, Saxavord - Denis SCAGGIANTE, Novaeka

INTERSESSION

	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8
15:10	SESSION 01 Engines Developpement & Tests 1	SESSION 02 Solid Rocket Motors 1	SESSION 03 LRE Thrust Chamber - Tests	SESSION 04 Overviews in Chemical Propulsion	SESSION 05 Cathodes 1	SESSION 06 Hall Thruster Characterization 1	SESSION 07 Micropropulsion	SESSION 08 Ion Thrusters 1
Chair	Chair 1 - TBD	Chair 2 - TBD	Chair 3 - TBD	Chair 4 - TBD	Chair 5 - TBD	Chair 6 - TBD	Chair 7 - TBD	Chair 8 - TBD
15:10 1	050 - HOT-FIRE TESTING OF HYDROGEN PEROXIDE / KEROSENE ADDITIVELY MANUFACTURED THRUST CHAMBER Nicolas FOSSEPREZ - Dawn Aerospace - The Netherlands	719 - Equipped Solid Rocket Block 2 Qualification Fabrice MARTIN - ArianeGroup - France	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	012 - Design and Test of a Heaterless Hollow Cathode with Multi Channel Emitter for the AF MPD Thruster SUPREME David WANKE - University of Stuttgart - Germany	069 - Electron Properties in the Plasma Plume of High-Power Hall Thrusters Firing with Various Atomic Propellants Stéphane MAZOUFFRE - CNRS - ICARE laboratory - France	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
15:30 2	102 - Development Progress of the MR10 Cryogenic Upper Stage Engine for VEGA-E Marco DE ROSA - ESA - Italy	735 - Europe's largest solid-propellant rocket motors: from P80 technologies to P160C Eric ROBERT - ESA - France	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	297 - Ignition Cycling of a Heaterless Hollow Cathode for Low-Power Plasma Thrusters Ahmed MOHAMED MONEIR HUSSIEIN - 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	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
15:50 3	374 - Summary of the Firing Test Results for a 30 kN-Class LOX/Methane Upper Stage Engine Atsushi IKEMOTO - IHI Corporation - Japan	585 - P160C Solid Rocket Motor qualification Maria Luisa FREZZOTTI - EUROPROPULSION - France	466 - Experimental and Numerical Investigation of a Novel Cooling Technology for In-Space Propulsion Nicola FOLETTI - Politecnico di Milano - Italy	208 - State of the Art in Nitrous Oxide-Based Satellite Propulsion Systems Nicolas FOSSEPREZ - Dawn Aerospace - The Netherlands	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	462 - Effects of Magnetic Nozzle on Performance of a Low-Power Vacuum Arc Thruster Depending on Cathode Materials Jaeyeon HWANG - Pusan National University - South Korea	229 - Concept Development of a Cathodeless Inductively-Coupled Gridded Ion Engine for Very Low Earth Orbit Atmosphere-Breathing Propulsion Pavel SMIRNOV - TransMIT GmbH - Germany
16:10 4	407 - Development and Testing of Hydrogen Peroxide - Propane Liquid Bipropellant Rocket Engines at OPUS Aerospace Giulio CORAL - OPUS Aerospace - France	563 - ARIANE 6 & VEGAC P120C/P160C Nozzle - Flight REX and New Nozzle design evolutions Severine LARRIEU - ArianeGroup - France	536 - Testing of an additively manufactured GRCop-42/IN718 LOX/LCH4 combustion chamber with compliant firewall Iain WAUGH - Airborne Engineering Ltd - United Kingdom	476 - Evolution for Next Generation of Chemical Propulsion Systems_AGG Malte WURDAK - ArianeGroup GmbH - Germany	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	784 - A Micro PPT for Small Satellite Applications Paolo GESSINI - BRAZILIAN SPACE AGENCY (AEB) - Brazil	233 - Improving Microwave Discharge Ion Thruster Performance by Changing the Frequency to 5.8 GHz Maria Lourdes INSINGA - Politecnico di Torino - Italy

COFFEE BREAK

	SESSION 09	SESSION 10	SESSION 11	SESSION 12	SESSION 13	SESSION 14	SESSION 15	SESSION 16
17:00	Launchers Programs	Solid Rocket Motors 2	LRE Thrust Chamber Design	Overviews in Electric Propulsion	Experimental Techniques 1	Electrothermal Thrusters	Development & Qualification of Hall Thruster Systems	Nuclear Propulsion 1
Chair	Chair 9 - TBD	Chair 10 - TBD	Chair 11 - TBD	Chair 12 - TBD	Chair 13 - TBD	Chair 14 - TBD	Chair 15 - TBD	Chair 16 - TBD
17:00 1	218 - Innovations in Propulsion within ESA'S Future Launchers Preparatory Programme (FLPP) - Unlocking European Capabilities Kate UNDERHILL - ESA - France	572 - Impact of ARIANE 6 & VEGAC/E P160C SRM New Design on Pressure oscillations Severine LARRIEU - ArianeGroup - France	096 - Optimisation and Design of a 15kN Bi-Liquid Ethalox Rocket Engine for SLM Manufacturing Lois MARTINS PIÑON - EPFL - Switzerland	130 - Electric Propulsion Activities at the European Space Agency: Projects Update, Current R&D Status, and Post C-MIN 2025 Workplans Implementation Davina DI CARA - European Space Agency - The Netherlands	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	427 - Ariane 6 launcher: from the complete success of its first three missions towards the preparation of next missions. Cristina COLAIANNI - ARIANESPACE - France	769 - Solid propellant grain geometry automated design with artificial neural networks Damian KANIEWSKI - Łukasiewicz Research Network - Poland	159 - Design and manufacturing of a cold flow test bench of a 3kN liquid rocket engine injector Hichem REZAIGUIA - Ecole Militaire Polytechnique - Algeria	700 - An Overview of Electric Propulsion Activities at JAXA Ikkoh FUNAKI - JAXA - Japan	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	660 - Development Progress of the Vega-E Launch System Marco LEONARDI - ESA - Italy	617 - Development of a 2D test bench for characterising the dynamic response of a solid rocket propellant under rapid depressurisation Léo DISTELZWEY - ONERA - France	426 - Design evolution of a 25 kN LOx-CH4 thrust chamber assembly for space transportation applications Luís REBELO - Omnidea Lda. - Portugal	713 - Electric Propulsion Activities at ONERA Denis PACKAN - ONERA - 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

INTERSESSION

KEYNOTE SPEECH #1

"Full Thrust or False Start? The New Economics of Space Propulsion" - Maxime PUTEAUX, NovaSpace

END OF DAY 1

TRADITIONAL DINNER

18:00
18:10
18:40
20:00

EXHIBITION

TUESDAY 19 MAY 2026 // DAY 2

08:00	WELCOME COFFEE							
	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
09:10	SESSION 17 Stages Developpement & Tests	SESSION 18 Solid Rocket Motors 3	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	Chair 17 - TBD	Chair 18 - TBD	Chair 19 - TBD	Chair 20 - TBD	Chair 21 - TBD	Chair 22 - TBD	Chair 23 - TBD	Chair 24 - TBD
09:10	1 316 - Development Progress of the VEGA-E Upper Stage Liquid Propulsion Module Francesco DI MATTEO - European Space Agency - Italy	425 - Laser Ignition of Solid Rocket Propellants: Pressure-Dependent Ignition Behavior Philip PIETREK - Fraunhofer-Institut für Chemische Technologie (ICT) - Germany	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 Burak Onur EKICI - 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 - Characterization of the plasma plume of an argon-fed pulsed Magnetoplasmadynamic thruster with optical emission spectroscopy Alexandre PERDRAU - CNRS - France	106 - Plume shape optimization of the ECLIPSE thruster Laura BETTIOL - FOTEC Forschungs- und Technologietransfer GmbH - Austria
09:30	2 429 - The ASTRIS KickStage Propulsion System – Development Status & Outlook Dietmar WELBERG - ArianeGroup - Germany	490 - Solid Rocket Motors Thermomechanical Erosion Prediction Using Advanced Eulerian Multiphase Models Gianluca COCIRLA - Letara - Japan	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	161 - Wetting Process and Emission Characteristics of Ga-In FEFP Xiaoming KANG - Shanghai Jiao Tong University - China
09:50	3 707 - 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	548 - Development and Characterization of UV-Curable Composite Solid Propellant Formulations Alessandra Noemi LUCARNO - Politecnico di Milano - Italy	785 - Optimised Hybrid Cooling Channel Design approach for Methalox Rocket Engines Hemanth PASUMARTHI - Technical University of Munich - Germany	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 - –ukaszewicz Research Network – Institute of Aviation - Poland	627 - Bimodal Ammonia Nuclear Thermal and Electric Rocket (BANTER) Project: Progress towards Test Campaigns Elia PUCCINELLI - University of Pisa - Italy	243 - Indirect Roberval Thrust Balance for the Characterization of Field Emission Electric Propulsion (FEFP) and Electro Spray Thrusters Leo PEIFFER - Dresden University of Technology - Germany
10:10	COFFEE BREAK							
10:40	SESSION 25 Engines Developpement & Tests 2	SESSION 26 Green propulsion	SESSION 27 LRE Thrust Chamber - Modeling 1	SESSION 28 Air-Breathing Electric Propulsion 1	SESSION 29 Cathodes 2	SESSION 30 Development & Qualification of Hall Thruster Systems - Low Power 1	SESSION 31 Electric Propulsion Qualification & Flight Programs 1	SESSION 32 Flow Systems for Electric Propulsion
Chair	Chair 25 - TBD	Chair 26 - TBD	Chair 27 - TBD	Chair 28 - TBD	Chair 29 - TBD	Chair 30 - TBD	Chair 31 - TBD	Chair 32 - TBD
10:40	1 560 - Development Progress of the LOX/CH4 High Thrust Engine for future VEGA evolutions Marco GALEOTTA - ESA - Italy	013 - Additively Manufactured Stainless Steel 316L Catalyst Supports for the Catalytic Decomposition of Hydrogen Peroxide Dario MANCA - University Of Canterbury - New Zealand	351 - Large-Eddy Simulation of liquid oxygen / liquid methane coaxial injection under transcritical conditions. Audrey KLINGUER - CNRS - France	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	335 - Reconfigurable RF Cathode Operated with Noble Gases and Iodine Lorenzo TONON - University of Padova - Italy	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	172 - AST's Stand-Alone Valve Family for Electrical and Chemical Propulsion Systems Nils HILDEBRAND - AST Advanced Space Technologies GmbH - Germany
11:00	2 640 - Simulation Refinements of European Reusable Staged-Combustion Rocket Engine SLME Martin SIPPEL - DLR-SART - Germany	122 - Research on the Practical Application of Sustainable Rocket Propellant (SRP) Taisei TAKAOKA - The University of Tokyo - Japan	503 - Large-Eddy Simulation of the LE-X Full-Scale Liquid Rocket Engine Combustor Takanori HAGA - Japan Aerospace Exploration Agency - Japan	099 - Towards the experimental demonstration of cryogenic propellant regeneration Cameron LESLIE - Cranfield University - United Kingdom	464 - Hollow Cathode Development for Iodine Electric Propulsion Systems Carla GUIDI - University of Pisa - Italy	100 - Low Power Cathode lifetime characterization for sub-hundred-watt Hall thrusters Alexandre GUGLIELMI - Exotrail - France	124 - Qualification status of spaceware™-nano propulsion system Antonio GURCIULLO - Exotrail - France	508 - Development Status of Next Generation Electric Pressure Regulator for Electric Propulsion Systems Pietro BROGGI - AST Advanced Space Technologies GmbH - Germany
11:20	3 655 - Building Europe's Future Reusable Propulsion Capability: Early Results from the ASTRE Program Miguel MARTIN BENITO - Centre National d'Etudes Spatiales (CNES) - France	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	504 - Robust Wall-Modeled LES for Accurate Heat Flux Prediction in Rocket Engine Combustors Yasuhito OKANO - Japan Aerospace Exploration Agency - Japan	217 - Activities Overview of an ABEP End-to-End Test based on the IRS Electroless RF Plasma Thruster Konstantinos PAPA VRAMIDIS - University of Stuttgart - Germany	364 - Design of an Iodine-Compatible RF Cathode via Global Modelling and Electromagnetic Simulations Renwei TAN - University of Padova - Italy	163 - Design of a Low-Power Hall Thruster with Anode Layer Nicola ORSINI - University of Pisa - Italy	140 - Development and Evolution of High-Precision Thrust Stands for Electric Propulsion Testing Vanessa VIGNE - DACTEM INTERNATIONAL - France	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	4 780 - Status of LOX/Methane Prometheus Engine demonstration Lilian PREVOST - CNES - France	731 - Development status of the 200 N green HTP monopropellant RACS thruster. Daniel DIGRE - Nammo Raufoss AS - Norway	518 - CFD Simulations of Thrust Chamber Assembly in simplified 2D and 3D LUMEN Engine Models using the DLR-TAU Code Chandan Kumar Singh MAHATO - German Aerospace Center - Germany	230 - Experimental Demonstration of a RIT-Based Particle Flow Generator for Simulating Very Low Earth Orbit Atmosphere-Breathing Conditions Pavel SMIRNOV - TransMIT GmbH - Germany	092 - Experimental characterization of diamond-based thermionic emitters for hollow cathodes Aldo MICCIANI - Università di Pisa - Italy	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	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	5 666 - TESTING DEMONSTRATORS OF MPGE ENGINE FOR VEGA LAUNCHER APPLICATIONS Pandro Ansano SANI - AVIO S.P.A. - Italy	292 - Hydrogen Peroxide Operations: Risks, Monitoring, and Good Practices Luca BREGGION - CNES - France	424 - LES Validation and Analysis of Unstable Liquid Rocket Engines at Super- and Subcritical Pressures Giulio PELENGHI - ISAE-SUPAERO - France	332 - Plasma Chemistry in RF Discharges with Nitrogen-Oxygen-Argon mixtures: Model and Experimental Validation Edoardo GASPARI - Sant'Anna School of Advanced Studies - Italy	273 - Electrical Coupling of CNT-based Field Emission Cathodes for Space Propulsion Jonathan HERTEL - TU Dresden - Germany	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	703 - Demonstration Testing of a Hall Thruster Fed with Cryostored Liquid Argon Olivier DUCHEMIN - Safran Aircraft Engines - France
12:20	LUNCH							

EXHIBITION

PLENARY SESSION

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
13:50	<p>SESSION 33 Reusability 1</p> <p>SESSION 34 Hybrid Propulsion 1</p> <p>SESSION 35 LRE Thrust Chamber - Injection</p> <p>SESSION 36 Magnetoplasmadynamic Thrusters 2</p> <p>SESSION 37 Manufacturing Techniques & Industrialization</p> <p>SESSION 38 Propellant Storage and Distribution</p> <p>SESSION 39 Water Propulsion Systems 1</p> <p>SESSION 40 Ignition & Combustion of Chemical Propellants 2</p>							
14:50	<p>Chair 33 - TBD</p> <p>Chair 34 - TBD</p> <p>Chair 35 - TBD</p> <p>Chair 36 - TBD</p> <p>Chair 37 - TBD</p> <p>Chair 38 - TBD</p> <p>Chair 39 - TBD</p> <p>Chair 40 - TBD</p>							
15:00	<p>301 - How H2O2 based RCS allows for cost effective ground support - Callisto FCS/R</p> <p>Simon FURNES - Nammo Raufoss - Norway</p>	<p>066 - Testing of a Throttleable Hybrid Rocket Engine using multiple Oxidizer Injections</p> <p>Joël MARTIN - German Aerospace Center - Germany</p>	<p>093 - Design and Preliminary Performance Analysis of a Counter Bi-Swirl Injector for a 200 kN Methalox Rocket Engine</p> <p>Lois MARTINS PIÑON - EPFL - Switzerland</p>	<p>078 - Performance Measurements of a 9kW Coaxial Electrodeless Magnetoplasmadynamic Thruster</p> <p>Grace ZOPPI - Plasmadynamics and Electric Propulsion Laboratory at the University of Michigan - United States</p>	<p>011 - Friction Stir Welding of aluminium tanks: safe disposal at the satellite life end and zero-leakage performance.</p> <p>Laurent DUBOURG - Stirweld - France</p>	<p>191 - Waterhammer Measurements for H2O2 and Hydrazine in a Linear and Tee Configuration</p> <p>Jouke HIJLKEMA - ONERA - France</p>	<p>018 - Life Quantification of the Water Electrolysis Hall Effect Thruster (WET-HET)</p> <p>Freddy BAYLISS - Imperial College London - United Kingdom</p>	<p>085 - Enhancing the combustion interruption reliability of a laser-heated propellant microthruster by using LiF nanoparticles.</p> <p>Timothé CHILOU - Tokyo Metropolitan University - Japan</p>
15:20	<p>486 - Thermomechanical Limits and Performance Trade-Offs of Reusable Rocket Engines for First-Stage Reuse</p> <p>Lilly ETZENBACH - Massachusetts Institute of Technology - United States</p>	<p>070 - Functionalization of 3D-Printed Reinforcing Structures in Armored Grains for Hybrid Rocket Propulsion</p> <p>Carlo RONTINI - Politecnico di Milano - Italy</p>	<p>134 - Numerical Investigation of Supercritical Swirl-Coaxial LOX/CH4 Injection and Combustion in DLR's Single-Element Research Rocket Combustor BKN</p> <p>Dogan KAYA - German Aerospace Center (DLR) - Germany</p>	<p>272 - Preliminary Design and Performance Calculation of a 4.5 kW Applied-Field MPD Thruster</p> <p>Mario PANELLI - The Italian Aerospace Research Centre - Italy</p>	<p>055 - SCALING UP SPACE PROPULSION PRODUCTION: DAWN AEROSPACE'S JOURNEY FROM PROTOTYPE TO SERIAL MANUFACTURING</p> <p>Nicolas FOSSEPREZ - Dawn Aerospace - The Netherlands</p>	<p>194 - Stellar Electric Gear Pump</p> <p>Martin LEDVINKA - Stellar Exploration s.r.o. - Czech Republic</p>	<p>021 - Combined system performance tests of the water electrolysis propulsion system for the small satellite ROMEO</p> <p>Alexandros VIKAS - Institute of Space Systems - University of Stuttgart - Germany</p>	<p>264 - A Systems Engineering Analysis of Rocket Plasma-Assisted Combustion</p> <p>Giorgio CRESCENZO - University of Salerno - Italy</p>
15:40	<p>629 - Integrated Engine-Cycle and Structural Modelling for Reusable Liquid Rocket Engines</p> <p>Mateusz GULCZYNSKI - German Aerospace Center - Deutsches Zentrum für Luft- und Raumfahrt (DLR) - Germany</p>	<p>117 - Performance Comparison of a Hydrogen Peroxide-Based Hybrid Rocket Engine with Hypergolic and Catalyst-Bed Modules</p> <p>Ahmet Nihat KARCI - University of Southampton - United Kingdom</p>	<p>268 - Numerical Simulation of the DLR LUMEN Thrust Chamber: Impact of Small Injection Asymmetry</p> <p>Clara MORRIS - DLR - Germany</p>	<p>358 - Electrostatic Probe Measurements in the Plume of a Miniature Pulsed SF-MPD Thruster</p> <p>Etienne MICHAUX - CNRS - France</p>	<p>180 - Manufacturing Overview of the Aurora Hall-Effect Propulsion System</p> <p>Scott HALL - Orbion Space Technology - United States</p>	<p>337 - Mass gauging experiment aboard a cryogenic orbital payload</p> <p>Sara Cecilia ABECIA-HERNANZ - UPC-BarcelonaTech - Spain</p>	<p>259 - End-to-End Testing of a 1N Thruster and Cathode Vapour Feed Electrolyser in a Vacuum Test Facility</p> <p>Charles MUIR - European Space Agency - The Netherlands</p>	<p>650 - Effect of Methanol Addition on the IDT and Spray Combustion of a Hypergolic Green Bipropellant</p> <p>Fabio MOTA - Federal University of ABC (UFABC) - Brazil</p>
16:00	<p>631 - CALLISTO – Reusable engine and flight demonstration</p> <p>Michel ILLIG - CNES - France</p>	<p>219 - Estimation of the optimal mixture ratio point of a hybrid rocket engine by spectrometric analysis of the exhaust plume</p> <p>Quentin LEVARD - ONERA - France</p>	<p>307 - Hydrodynamic Effects of Swirl Coaxial Injectors in High Pressure LOX/Methane Rocket Engines</p> <p>Alexander BEE - German Aerospace Center (DLR) - Germany</p>	<p>361 - Thermal Design of a Low-Power AF-MPD Thruster within the EU Project BANTER</p> <p>Alessa SPERBER - Institute of Space Systems, University of Stuttgart - Germany</p>	<p>224 - Industrialising Laser Metal Deposition for Aerospace Propulsion: TRL5 Validation of Process Control and Material Performance</p> <p>Fereidoon MAREFAT - SKF - Belgium</p>	<p>355 - Design and Development of a Propulsion Fluidic Breadboard for the Rosalind Franklin Mission Lander Platform</p> <p>Wooding ANGUS - Airbus Defence and Space - United Kingdom</p>	<p>430 - Development and In-House Experimental Demonstration of An Optimised Water Electrolysis Hall Effect Thruster</p> <p>Mickeias Sisay BERHE - URA Thrusters - United Kingdom</p>	<p>694 - Designing Ignition: How Cation Structures Influence the Ignition Behavior of Thiocyanate Ionic Liquids with Hydrogen Peroxide</p> <p>Sophie STÖLZLE - German Aerospace Center (DLR) - Germany</p>
16:20	<p>699 - CFD Modeling Challenges for Reusable Launch Vehicle Development</p> <p>Yohan BLACODON - MAIASPACE - France</p>	<p>303 - Preliminary Design and Test of Hybrid Rocket Motor Cluster</p> <p>Ozan KARA - Technology Innovation Institute - United Arab Emirates</p>	<p>403 - Simulation and modeling of advanced injection strategies for liquid rocket engines</p> <p>Davide SCHINTU - Sapienza - University of Rome - Italy</p>	<p>517 - Plasma Plume Mapping of a Low Power Pulsed Magnetoplasmadynamic Thruster</p> <p>Thomas YUNG - Comat - France</p>	<p>225 - Additive Manufacturing Solutions for Solar Thermal Propulsion: An Integrated RAC Design Approach</p> <p>Riccardo CAMBERTONI - TU Delft - The Netherlands</p>	<p>537 - Development of a Bistable Valve for Polish Imaging Satellites (PIAST)</p> <p>Zbigniew GUT - &#321;ukasiewicz&#3212;Institute of Aviation - Poland</p>	<p>437 - Realising Stoichiometric Hydrogen/Oxygen Combustion with the 1N ICE-1000 thruster for Electrolysed Water Propulsion</p> <p>Danylo SHCHERBAK - URA Thrusters Ltd. - United Kingdom</p>	<p>701 - Combustion Chamber Optimization for a Green Monopropellant Based on Nitromethane</p> <p>Miguel Cipriano GARCES - German Aerospace Center (DLR) - Germany</p>
16:40	<p>COFFEE BREAK</p>							
17:10	<p>SESSION 41 Propellant Feed Systems</p>	<p>SESSION 42 Hybrid Propulsion 2</p>	<p>SESSION 43 LRE Thrust Chamber - Combustion</p>	<p>SESSION 44 Green Monopropellant Thrusters 1</p>	<p>SESSION 45 Green Bipropellant Thrusters 1</p>	<p>SESSION 46 Advanced Propulsion Concepts</p>	<p>SESSION 47 Propulsion for Exploration Missions</p>	<p>SESSION 48 Electrospray Propulsion</p>
17:10	<p>258 - Optimization of an Onboard Cryogenic Propellant Subcooler using the Joule-Thomson Effect</p> <p>Kiyoshi KINEFUCHI - Nagoya University - Japan</p>	<p>345 - First Sounding Rocket Launch from the UAE</p> <p>Joao MARTOS - Technology Innovation Institute - United Arab Emirates</p>	<p>166 - Experimental studies of methane/oxygen combustions including off-nominal operating conditions</p> <p>Keita YAMAMOTO - JAXA - Japan</p>	<p>023 - Formation of a High-Performance Monopropellant Formed of Hydrocarbon-Filled Microcapsules and Hydrogen Peroxide: a Restrospective</p> <p>Robin SCHOLL - German Aerospace Center (DLR) - Germany</p>	<p>051 - Development, Qualification, and In-flight Demonstration of Dawn Aerospace's Family of 1N–200N Green Nitrous Oxide-Based Bi-Propellant Thrusters</p> <p>Nicolas FOSSEPREZ - Dawn Aerospace - The Netherlands</p>	<p>007 - Plasma Formation, Current Drive and Confinement in the Spherical Tokamak Thruster</p> <p>Hamda AL-ALI - Imperial College London - United Kingdom</p>	<p>135 - Catalyst Screening for Lunar ISRU Production of Hydrogen Peroxide</p> <p>Eva STEINMANN - Deutsches Zentrum für Luft- und Raumfahrt (DLR) - Germany</p>	<p>026 - Numerical Investigation of Plume Angular Divergence in Electrospray Systems: Influence of Geometrical and Operational Parameters</p> <p>Erica LOPEDOTE - Université Libre de Bruxelles - Belgium</p>
17:30	<p>333 - Comprehensive Analytical and numerical modelling of heat transfer in spherical Ti6Al4V gas bottles for sustainable launch vehicle operations</p> <p>Kesava Vishnu G - ISRO - India</p>	<p>346 - Hybrid Rocket Engine Performance Estimation with an Unscented Kalman Filter</p> <p>Albertus Stephanus LOUW - Letara Ltd. - Japan</p>	<p>222 - Numerical simulation of LOX-CH4 combustion with a doubly-transcritical injection under rocket engine conditions.</p> <p>Florian MONNIER - ArianeGroup - France</p>	<p>097 - Development of a Safe and Low-Toxicity Monopropellant Thruster Series</p> <p>Shinji IGARASHI - IHI Aerospace Co., Ltd., - Japan</p>	<p>076 - ISPTech's HyNOx Self-Pressurized Propulsion Technology: Development Status and Qualification for first Missions</p> <p>Julian DOBUSCH - ISPTech - InSpacePropulsion Technologies GmbH - Germany</p>	<p>073 - A novel magnetic reconnection thruster for high specific impulse interplanetary missions</p> <p>Giulia BECATTI - University of Pisa - Italy</p>	<p>495 - Design and Testing of a GOX/GCH4 Thruster for Attitude Control on a Lunar Lander</p> <p>Marco Romano DELOGU - Politecnico di Torino - Italy</p>	<p>279 - Effect of Spatial Plume Variations on Time-of-Flight Based Performance Measurements for Ion Electrospray Propulsion</p> <p>Saba SHAIK - Massachusetts Institute of Technology - United States</p>
17:50	<p>554 - Development and Qualification of Fast Acting Cavitating Venturi Control Valves</p> <p>Jack COGHEN-BREWSTER - Protolaunch - United Kingdom</p>	<p>348 - CAMUI as Compact and Efficient High-Thrust Hybrid Rocket Boosters: a Comparative Study</p> <p>Marco ROTONDI - Letara Ltd - Japan</p>	<p>366 - A Low-Order Framework for Predicting Transverse Combustion Instabilities in a Rectangular Model Combustor</p> <p>Alex FALCO - La Sapienza, University of Rome - Italy</p>	<p>280 - Water Hammer in Breadboard Testing for Green Spacecraft Propulsion Systems Utilizing 98% Hydrogen Peroxide</p> <p>Damian GRABOWSKI - &#321;ukasiewicz Research Network - Institute of Aviation - Poland</p>	<p>129 - ISPTech's HIP_11 - Green Hypergolic Propulsion: Development Status and Demonstration of a Hypergolic 22N Thruster in Vacuum</p> <p>Felix LAUCK - ISPTech - InSpacePropulsion Technologies GmbH - Germany</p>	<p>113 - Exploring Thrust Mechanisms of Aerographite for Photon Propulsion Applications</p> <p>Julius KARLAPP - TUD Dresden University of Technology - Germany</p>	<p>580 - RELIANCE High Performance Engine Development for Interplanetary Landing Missions</p> <p>Anthony HAYNES - Nammo UK - United Kingdom</p>	<p>312 - Coupled Multi-phase Simulation: Electrospray Propulsion for Small Spacecraft</p> <p>Nikhil MELGIRI - Royal Military College - Canada</p>
18:10	<p>590 - Lessons Learned from the Design and Development of a Rotary Ball Valve for Propellant Feed Management in the Prometheus Engine</p> <p>Cédric BORBOUSE - Safran Aero Boosters - Belgium</p>	<p>545 - Design and Testing of the Propulsion System of a H2O2/ABS Student-developed Hybrid Rocket</p> <p>Joan Miquel BENGOCHEA LOPEZ - Supaero Space Section - Spain</p>	<p>375 - Feasibility Study of Minimal-Physics Modeling for Combustion Instability in a Simplified LOX/LH2 Single-Injector Combustor Using LES and URANS</p> <p>Hideki MORIAI - Kanazawa Institute of Technology - Japan</p>	<p>319 - In-orbit Testing of the 1N BOOSTER Green Chemical Propulsion - RED5 Mission Results</p> <p>Tomasz PALACZ - Liftero - Poland</p>	<p>137 - Design and Evaluation of a 200 N HyNOx Thruster Control Algorithm in a Hardware in the Loop Simulation of a Landing Demonstrator</p> <p>Fabio ADDARIO - Deutsches Zentrum für Luft- und Raumfahrt - Germany</p>	<p>210 - A Multidisciplinary Design Optimization Approach to the Preliminary Design of a Solar Thermal Thruster for the Green SWaP Project</p> <p>Leonardo DALL'OSTO - TU Delft - The Netherlands</p>	<p>646 - Enabling Interplanetary CubeSat Transfers with Multimode Propulsion: From Earth Escape to Mars Orbit Insertion</p> <p>Andrea FORESTIERI - Politecnico di Torino - Italy</p>	<p>396 - Ion Beam Characteristics of Electrospray Thrusters using High-Energetic Ionic Liquids</p> <p>Yoshinori TAKAO - Yokohama National University - Japan</p>
18:30	<p>704 - An Integrated CFD–Analytical–Experimental Design Strategy for 3D-Printed Cryogenic Hydrogen Heat Exchangers</p> <p>Saddik ADDARKAOUI TAARABT - Safran Aero Boosters - Belgium</p>	<p>599 - Assessment of Injection Pattern Effects on Regression Rate in a Small-Scale HTP/HDPE Hybrid Rocket Engine</p> <p>Sergio CASSESE - UNIVERSITY OF NAPLES - Italy</p>	<p>452 - LES of a GOX/GH2 rocket combustor with analysis of chamber acoustics using a Flux Reconstruction Scheme</p> <p>Patrick STREMPFL - Japanese Aerospace Exploration Agency - Japan</p>	<p>350 - Thermal Modeling and Test Correlation of a Hydrogen Peroxide Monopropellant Thruster</p> <p>Erik RONNING - Nammo Raufoss AS - Norway</p>	<p>240 - Improved Design and Performance Assessment of a flight-weight 250 N Green Propellant Thruster</p> <p>Duran MARTIN - Technology Innovation Institute - United Arab Emirates</p>	<p>764 - Fission-Driven Plasma Propulsion</p> <p>Natalia LOPEZ - Harvard University - United States</p>	<p>741 - Development of a CubeSat Propulsion System for Next-Generation Deep Space Missions</p> <p>Daykin-Iliopoulos ALEXANDER - Mars Space LTD - United Kingdom</p>	<p>714 - Ion Beam Diagnostics of a Single-Emitter Electrospray Thruster</p> <p>Dongho LEE - Korea Advanced Institute of Science and Technology - South Korea</p>
18:50	<p>END OF DAY 2</p>							

EXHIBITION

WEDNESDAY 20 MAY 2026 // DAY 3

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	
09:10		SESSION 49 LRE Modeling		SESSION 50 Hybrid Propulsion 3		SESSION 51 LRE Thrust Chamber - Manufacturing		SESSION 52 Iodine Thrusters 1		SESSION 53 Development & Qualification of Hall Thruster Systems - High Power		SESSION 54 Experimental Techniques 2		SESSION 55 Hall Thruster Characterization 2		SESSION 56 Propellant Tanks 2	
Chair		Chair 49 - TBD		Chair 50 - TBD		Chair 51 - TBD		Chair 52 - TBD		Chair 53 - TBD		Chair 54 - TBD		Chair 55 - TBD		Chair 56 - TBD	
09:10		1 004 - Static Modelling of an Open-Cycle Liquid Rocket Engine Turan ÇOPUROĞLU - ROKETSAN - Turkey		644 - Development and Optimization of a Vortex-Flow Pancake Hybrid Motor Architecture with Comparative Performance Analyses Beste BOYBASI - Koc University - Turkey		389 - Student Design and Test of an Additively Manufactured CuCrZr Bipropellant Thrust Chamber for the Characterisation of Film Cooling Brandon BRITTAIN - University of Sheffield - United Kingdom		116 - On-Orbit Demonstration of First All-Iodine Electric Propulsion System Kyle EMMI - Busek Co Inc - United States		162 - Stability Domain Investigation for TANDEM 20kW-class Hall Thruster Simone SCARANZIN - Aerospazio Tecnologie S.r.l. - Italy		497 - Diagnostics of Hollow Cathode Transient Behavior Using Fast Langmuir Probes and Two-Color Pyrometry Temperature Measurements Takato MORISHITA - JAXA - Japan		544 - Performance of 1500 W Hall Effect Thruster for Different Voltages and Xenon Flow Rates Ilksen BURAT - TUBITAK UZAY - Turkey		120 - Low-Pressure Vessel of Xenon Using Metal Organic Framework Technology Ryudo TSUKIZAKI - Japan Aerospace Exploration Agency - Japan	
09:30		2 381 - System-Level Simulation of the RV-X Expander-Bleed Cycle Rocket Engine Yu DAIMON - University of Tsukuba - Japan		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		515 - Additively Manufactured Bimetallic Thrust Chamber: Manufacturing and Preliminary Testing for Next-Generation Launcher Applications Alessandra LOPERFIDO - AVIO - Italy		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		402 - Effect of Channel Interaction on the Performance of the TANDEM 20-kW Nested Hall Thruster Guido GIAMMARINARO - University of Pisa - Italy		561 - Optical emission spectroscopy of plasma in propulsion system with closed ring-shaped gas discharge chamber Andrei SHUMEIKO - Advanced Space Technologies Limited - United Arab Emirates		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		3 506 - Development of a Control Oriented State Space Model for an Expander Bleed Type Engine Vincent BAREISS - German Aerospace Center - Germany		771 - Testing of an advanced GOx/paraffin-based fuel 1000 N hybrid rocket engine Daniele CARDILLO - CIRA (Centro Italiano Ricerche Aerospaziali) - Italy		573 - Transpirative expansion slot cooled additively manufactured rocket engines Iain WAUGH - Airborne Engineering Ltd - United Kingdom		054 - Development and Characterization of the Iodine-Fed Kilowatt Thruster for iFACT-MP Saskia SÜTTERLIN - Airbus - Germany		768 - Qualification Progress and Mission-Enabling Capabilities of the 12-kW Hall-Effect, Advanced Electric Propulsion System (AEPS) Thruster George WILLIAMS - NASA - United States		773 - Computed Tomography of Electro Spray Emitter Arrays: High-Resolution Reconstruction and Diagnosis of Emission Non-Uniformity Maurizio SAGGIANI - IENAI SPACE - Spain		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		SESSION 57 Plume & Aerodynamic Effects Evaluation 1		SESSION 58 Detonation Engines 1		SESSION 59 LRE Thrust Chamber - Modeling 2		SESSION 60 Development & Qualification of Hall Thruster Systems - Low Power 2		SESSION 61 Ion Thrusters 2		SESSION 62 Air-Breathing Electric Propulsion 2		SESSION 63 Green Monopropellant Thrusters 2		SESSION 64 Bipropellant Thrusters	
Chair		Chair 57 - TBD		Chair 58 - TBD		Chair 59 - TBD		Chair 60 - TBD		Chair 61 - TBD		Chair 62 - TBD		Chair 63 - TBD		Chair 64 - TBD	
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 Bhavya MAHAJAN - University of Pisa - Italy		394 - PIC-informed reduced electron model for gridded ion engine plumes Matteo GUAITA - Universidad Carlos III de Madrid - Spain		126 - Influence of Channel Material on the Performance and Surface Evolution of an Air-Breathing Hall Thruster Zijian LIU - Harbin Institute of Technology - China		367 - Qualification Campaign Results of the 2U HTP Propulsion System for 12U CubeSats Shaun DORMON - LMO - United Kingdom		030 - Vacuum Hot-fire Testing of the LEROS ACE-25 Hydrazine/MON 25lbf Engine Alex VARNEY - Nammo UK - United Kingdom	
11:00		2 009 - Unsteady Aerodynamics of Engine Startup During Retro-Propulsion on a Reusable Launcher Tamas BYKERK - The German Aerospace Center - Germany		074 - Nonlinear mode decomposition of the Detonation Wave Propagation in a Small-Scale Hydrogen-Oxygen Rotating Detonation Combustor Jan MARTIN - 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		406 - Status of the RITZX endurance and environmental test campaigns Tobias MAYER - Ariane Group Germany - Germany		213 - Development and experimental characterisation of a microwave cathode for air-breathing plasma propulsion Andrea LUCCA FABRIS - University of Surrey - United Kingdom		436 - Development and qualification of ALPHARD-20 hydrogen peroxide propulsion module. Paola DE CARLO - Technology for Propulsion and Innovation S.p.A. - Italy		053 - FROM PRINTER TO ORBIT: THE 0.8U CUBEDRIVE BIROPELLANT PROPULSION SYSTEM Nicolas FOSSEPREZ - Dawn Aerospace - The Netherlands	
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		692 - Ignition sequencing strategies for minimum ignition overpressure in LOX/methane space propulsion thrust chambers Michael BÖRNER - DLR - Germany		594 - SPARK: From Life Test to Mission Readiness Stefan GREGUCCI - SITAEL - Italy		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		241 - Air-Breathing Electric Propulsion Activities at TU Dresden Christoph PETER - Technische Universität Dresden - Germany		482 - ARIEL – Development of a 250N monopropellant thruster working with hydrogen peroxide 98% from scratch to commercialization 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		4 265 - Impact of Rocket Engine Exhaust Product Uncertainties on the DLR Global Launch Emission Inventory Steffen CALLESEN - 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		709 - Transfer learning: how to build efficient surrogate models of liquid rocket engine injectors with limited data Giovanni ROMANO - ISAE-SUPAERO - France		633 - Analysis of the Applicability of Krypton as a Propellant for Miniaturized Electric Propulsion Systems Merve BALABAN - BERLIN SPACE - Germany		579 - Kreios Space ABEP Development Status Stanislav TOLOK - Kreios Space - Spain		484 - DARK –Orbital demonstration of a fully European in-space propulsion system using hydrogen peroxide Ismael GUTIERREZ - Arkadia Space - Spain		723 - Changes in Mixed Oxides of Nitrogen Chemistry During Offload Scenarios Lockett DALE - European Astrotech Ltd. - United Kingdom			
12:00		5 286 - Numerical Investigation Of External Flux Effect On Aerospike Nozzle Performance Mattia MAGNANI - 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		532 - A Lightweight Thermal Modeling Framework for Regeneratively Cooled Rocket Chambers Tiago GÂNDARA - University of Aveiro - Portugal		635 - Development and Characterization of a Miniaturized Hall-Effect Thruster for Small Satellite Applications Merve BALABAN - BERLIN SPACE - Germany		588 - Helicon Plasma Thruster performance optimization under different N2-O2-Kr mixtures Andrés RABUÑAL-GAYO - Universidad Carlos III de Madrid - Spain		525 - Performance Characterization of a 25 N HTP Monopropellant Thruster Fırat Cihan DOĞAN - ROKETSAN INC - Turkey		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								

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	SESSION 65 Plume & Aerodynamic Effects Evaluation 2	SESSION 66 Air Breathing and Advanced Propulsion	SESSION 67 Aerospike design and tests	SESSION 68 Electrodeless Thrusters	SESSION 69 Propulsion Systems Modeling	SESSION 70 Test Facilities & Experimental Techniques	SESSION 71 Power Processing & Control Units	SESSION 72 Hall Thruster Modeling
Chair	Chair 65 - TBD	Chair 66 - TBD	Chair 67 - TBD	Chair 68 - TBD	Chair 69 - TBD	Chair 70 - TBD	Chair 71 - TBD	Chair 72 - TBD
15:00 1	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	181 - Computational Analysis of the Operation of Rocket-Based Combined Cycle Engines with Green Propellants Timo GONSCHIOR - German Aerospace Center (DLR) - Germany	065 - Assessment of plug effects on toroidal aerospike thrust vector control capabilities Davide DEMARTINI - Pangea Aerospace - Spain	285 - Facility effects in magnetic nozzle thrusters testing: case of the ONERA ECRA 30W thruster Federico BONI - ONERA, The French Aerospace Lab - France	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 2	408 - OpenFOAM CFD Solver Comparison for One-Way Coupled CFD-DSMC Simulations of Plume-Surface Interactions Jannis PETERSEN - TUD Dresden University of Technology - Germany	201 - Development Status of the ATRIUM Engine and a Flight Testbed Yuki SAKAMOTO - ISAS/JAXA - Japan	164 - Numerical Analysis of Thrust Vector Control and Adaptive Throttling in Aerospike Engines with Inner Core Displacements Calin PROFIR - COMOTI – Romanian Research & Development Institute for Gas Turbines - Romania	308 - Effect of Magnetic Field Strength on the Performance of the ALFVEN Thruster Yung-An CHAN - German Aerospace Center (DLR) - Germany	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 3	461 - Jet-jet interaction techniques for crater modification in powered descent soft-landing scenarios Takahiro UKAI - Osaka Institute of Technology - Japan	249 - Development of a Gas-Liquid-Injection System for High-Speed Air-Breathing Propulsion Luca Thomas BAUER - German Aerospace Center - DLR - Germany	438 - Hot-fire investigation of aerospike expansion flow for clustered LOX/methane engines Jan SIEDER-KATZMANN - Technische Universität Dresden - Germany	329 - Metasurfaces to Advance Electric Space Propulsion Mirko MAGAROTTO - University of Padova - Italy	357 - Numerical and Experimental evaluation of slosh parameters in Venus Orbiter Mission propellant tanks for control stability studies Sarath Chandran NAIR S - INDIAN SPACE RESEARCH ORGANISATION, ISRO - India	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 4	509 - Assessment of NOx formation in Plume Post-Combustion for Reusable Launch Vehicles Tim HORCHLER - German Aerospace Center (DLR) - Germany	729 - INVICTUS: A propulsion system overview Patrick RENNIE - Frazer-Nash Consultancy - United Kingdom	510 - Numerical study of retro-propulsion of an aerospike engine during atmospheric re-entry Antoine MOUZE-MORNETTAS - Pangea Propulsion - France	628 - Experimental analysis of electron kinetics in a waveguide electron-cyclotron resonance thruster Marco Riccardo INCHINGOLO - Universidad Carlos III de Madrid - Spain	470 - Development of a Multidisciplinary Integrated Model Covering Spacecraft Descent and Landing for Planetary Exploration Missions Kaname KAWATSU - JAXA - Japan	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 5	513 - Quantitative 3D Assessment of Material Alteration in Plume-Surface Interaction Tests Theodor HEUTLING - TU Dresden - 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	724 - ASPIRER – How to fix an Aerospike Engine Martin PROPST - 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	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 SITAEL 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	SESSION 73 Tests Facilities & Platforms	SESSION 74 LRE Control - Health monitoring	SESSION 75 Nozzle design, development and tests	SESSION 76 Modeling of Electric Thrusters 1	SESSION 77 Cathodes 3	SESSION 78 Flight Systems Architecture & Testing	SESSION 79 0	SESSION 80 0
Chair	Chair 73 - TBD	Chair 74 - TBD	Chair 75 - TBD	Chair 76 - TBD	Chair 77 - TBD	Chair 78 - TBD	Chair 79 - TBD	Chair 79 - TBD
17:10 1	091 - ESTIMATION OF VIBRATION ENVIRONMENT AND STRUCTURAL ASSESSMENT FOR AN EXPERIMENTAL SEMICRYO ROCKET ENGINE Vivek S - ISRO - India	245 - AI-Driven Health Monitoring Systems for Enhanced Propulsion Reliability Sébastien PRIOTTO - ARIANE GROUP - France	105 - Assessment of Thrust Vector Control in a Dual-Bell Nozzle Brian LEGROS - 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	398 - Study on Chemical / Electric Integrated Propulsion System Based on Monopropellant Keigo HATAI - Japan Aerospace Exploration Agency - Japan		
17:30 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	336 - Analysis and Comparison of Reinforcement Learning for Rocket Engine Control Jan KAYSER - TUM - Germany	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	586 - Development and Qualification of the HEMPT 3050-C: A 1.5 kW Thruster for Satellite Constellations Ralf HEIDEMANN - Thales Germany GmbH - Germany		
17:50 3	369 - Modular Low-power 802.11-ah Wi-Fi and PoE Telemetry architecture for Rocket Propulsion Test Benches Emanuele SBARDELLA - SPACELAB COMPANY SPA - Italy	379 - Imitation learning for the optimal thrust control of rocket engines. 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	662 - Design of Variable thrusters for thrust modulations in Solid Propellant Divert and Attitude Control Systems (SDAC) using Pintle Valves. P SUNITHA - NIT - India		
18:10 4	439 - AI based fault detection system for liquid propulsion test benches using simulated data from a validated thermo-fluidic model Emanuele SBARDELLA - SPACELAB COMPANY SPA - Italy	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	492 - MHD Numerical Investigation of a Flux Ropes-based Magnetic Reconnection Thruster Nicola ORSINI - University of Pisa - Italy	730 - Advances in Electron Source Technologies for Electric Propulsion at Mars Space Ltd. Daykin-Iliopoulos ALEXANDER - Mars Space LTD - United Kingdom	689 - Impact on propulsion systems of the new international regulations Christophe BONNAL - MaiaSpace - France		
18:30 5	569 - Commissioning of a 40kN class rocket test facility for LOX, LCH4 and subcooled-C3H8 propellants Iain WAUGH - Airborne Engineering Ltd - United Kingdom	630 - Health Monitoring and Intelligent Control for Reusable Liquid-Propellant Rocket Engines Eldin KURUDZIJA - German Aerospace Center (DLR) - Germany	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 Matteo RIPOLI - 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			

END OF DAY 3

Gala Dinner & Awards Ceremony

EXHIBITION

THURSDAY 21 MAY 2026 // DAY 4

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 1	SESSION 82 LRE Components Manufacturing	SESSION 83 LRE Thrust Chamber - Mechanical Aspects	SESSION 84 Iodine Thrusters 2	SESSION 85 Green Bipropellant Thrusters 2	SESSION 86 Propellant Tanks 3	SESSION 87 Modeling of Electric Thrusters 2	SESSION 88 High-Thrust Propulsion for Interplanetary Missions
Chair	Chair 81 - TBD	Chair 82 - TBD	Chair 83 - TBD	Chair 84 - TBD	Chair 85 - TBD	Chair 86 - TBD	Chair 87 - TBD	Chair 88 - TBD
09:10	094 - Design and Optimisation of Independent Turbopumps for a Two Gas Generator Cycle Rocket Engine Lois MARTINS PIÑON - EPFL - Switzerland	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	383 - Root Cause Analysis of a Cooling Jacket Failure on a 25 kN LOx-CH4 Thrust Chamber Assembly Horacio MOREIRA - Omnidea - Portugal	440 - Design, development, and qualification of REGULUS-150-I2 Paola DE CARLO - Technology for Propulsion and Innovation S.p.A. - Italy	353 - Design of a Modular 100N Bipropellant Thruster Prototype based on Hydrogen Peroxide and Hydrogen Fabio FARAONI - University of Pisa - 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	114 - Experimental Suction Performance Investigation of the LUMEN Fuel Turbopump Christopher GROLL - Deutsches Zentrum für Luft- und Raumfahrt - Germany	246 - Ultra-Compact 3D-Printed Heat Exchanger (UC3D-HX) for Methane-Oxygen Engines Dominic TAN - The Exploration Company - France	442 - Thermomechanical Fatigue Testing of Additively Manufactured Combustion Chamber Segments Sebastian SOLLER - ArianeGroup - Germany	474 - Development and testing of an iodine-fed RF source for spacecraft electric propulsion Alfredo MARIANACCI - ICARE Laboratory/CNRS - France	391 - Testing of Nammo Green bipropellant throttleable engine Bastien HÄMMERLI - Nammo Raufoss AS - Norway	540 - Development of Modular Demisable Aluminum Propellant Tanks with Wide Propellant Compatibility Ondrej KREPL - 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	712 - Performance Trade-offs Across NTP and NEP Systems: Impacts on Payload Mass Fraction and Mission Design Beyond Earth Orbit Dale THOMAS - University of Alabama in Huntsville - United States
09:50	153 - HCF Rotor Optimization of a Rocket Main Stage Engine Turbine Rotor Pablo MARTINEZ RODRIGUEZ - Ariane Group - Germany	541 - Developing printable next-generation refractory alloys for space propulsion John ARISTEIDAKIS - Thermo-Calc Solutions AB - Sweden	736 - Elimination of Thrust Instability Induced by Nozzle Flow Separation Daniel DIGRE - Nammo Raufoss AS - Norway	551 - Characterisation of Iodine-powered ECRA thruster Victor DÉANGLES - ONERA - France	428 - Development and Testing of a 1N N2O-Ethane Green Bipropellant Thruster Alja, KEKEC - FOTEC / FHWN - Austria	696 - A Scalable Demisable Propellant Tank Architecture for Launchers and Satellites Roger MOLLAND - Nammo Raufoss AS - Norway	331 - One-Dimensional Spatio-Temporal Multi-Species Fluid Modeling of Iodine-Fed ECR thrusters. Yannice SOULE - ONERA, Université Paris-Saclay - France	717 - To Mars in a Month Alexander MOZGOVOY - Know how Ltd - Russia
10:10	COFFEE BREAK							
10:40	SESSION 89 Turbo Pumps 2	SESSION 90 Propellant Tanks	SESSION 91 LRE Ignition Systems 1	SESSION 92 Valves for Propulsion Systems	SESSION 93 Pressure Regulators	SESSION 94 Electric Propulsion Qualification & Flight Programs 2	SESSION 95 Air-Breathing Electric Propulsion 3	SESSION 96 Ignition & Combustion of Chemical Propellants 3
Chair	Chair 89 - TBD	Chair 90 - TBD	Chair 91 - TBD	Chair 92 - TBD	Chair 93 - TBD	Chair 94 - TBD	Chair 95 - TBD	Chair 96 - TBD
10:40	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	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	322 - Development of Next Generation High-Flow Electric Pressure Regulators for Chemical Propulsion Systems Thomas BRUS - AST Advanced Space Technology - Germany	052 - Building Flight Heritage: In-Orbit Operations and Lessons Learned from Dawn Aerospace's Propulsion Systems Nicolas FOSSEPREZ - Dawn Aerospace - The Netherlands	397 - Particle-in-Cell model of an air-fed hollow cathode for air-breathing electric propulsion Francesco TACCOGNA - CNR - Italy	302 - Re-ignition Systems with Hybrid Rocket Motors for in-space missions Ozan KARA - Technology Innovation Institute - United Arab Emirates
11:00	242 - TESTING AND VALIDATION OF THE OXIDIZER ELECTRIC PUMP ASSEMBLY FOR THE HURACAN ENGINE Lilian CHABANNES - The Exploration Company - France	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	388 - Low-noise mechanical pressure regulator for cold gas propulsion systems in scientific missions Michael HAPPL - FOTEC Forschungs- und Technologietransfer GmbH - Austria	624 - HEMPT-EVO Qualification and Production Status Angelo GENOVESE - THALES Deutschland - Germany	472 - Characterization of a novel facility for air-breathing electric thrusters with a probing arm Célian BOYÉ - Scuola Superiore Sant'Anna - Italy	463 - Improvements on the Throttleable Liquid Rocket Engine utilizing High-Test Peroxide Michal RANACHOWSKI - Lukaszewicz Research Network - Institute of Aviation - Poland
11:20	250 - E-assisted turbopump demonstrator: a novel pump-fed approach not only for 30kN liquid rocket engines Petr VANA - Inpraise Systems s.r.o. - Czech Republic	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 - Łukaszewicz Research Network Ł Institute of Aviation - Poland	514 - Evaluation of an availability with the space radiation environment of a spacecraft propulsion pressure monitoring system using radiation-resistant FBG Kohji TOMINAGA - JAXA - Japan	711 - Initial Mission Results from Héki – A Superconducting Magnet Technology Demonstration for Electric Propulsion Applications Randy POLLOCK - Victoria University of Wellington - New Zealand	566 - Development and Validation of a Novel CubeSat-scale Air-breathing Electric Propulsion System Vittorio GIANNETTI - Celeste S.r.l - Italy	473 - Study on spray characteristics of liquid-liquid pintle injector using mechanical and optical patternators Noritaka SAKO - Japan Aerospace Exploration Agency - Japan
11:40	338 - Accelerated discovery of multi-material turbine architectures for reusable oxygen-rich turbomachinery Mirco NYDEGGER - Massachusetts Institute of Technology - United States	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	576 - Development Status of Mechanical Pressure Regulator for Use on LISA Mission Marcus SJÖBERG - OHB Sweden AB - Sweden	740 - One Web Constellation Propulsion Sub System, Innovation & Challenges Fabien MALET - Airbus Defence & Space - France	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	481 - Strategy of additive uses to ignite non-hypergolic fuel with Hydrogen Peroxide Caroline CHABAUD - PPRIME laboratory - France
12:00	198 - Improvement of the turbopumps for LE-9 engine of H3 Launch vehicle Taiichi MOTOMURA - IHI Corporation - Japan	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 - Łukaszewicz Research Network Ł Institute of Aviation - Poland	578 - Development of a Mechanical Pressure Regulator for Chemical Propulsion Systems Paolo TOGNOLA - OHB Sweden - Sweden		606 - RED: RAM-EP in-orbit Demonstrator Stefan GREGUCCI - SITAEL - Italy	571 - Evaluation of Thermal Imaging for the Investigation of the Heat Release in a Resonance Ignition System Tom LINNEMANN - TU Braunschweig - Germany
12:20	LUNCH							

EXHIBITION

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, EUCASS - AAE - Marco DI CLEMENTE, ASI - ArianeGroup (TBD) - Joe CASSADY, L3 Harris

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 Magnetoplasmadynamic Thrusters 3	SESSION 101 Ion Thrusters 3	SESSION 102 Non-Conventional Hall Thrusters	SESSION 103 Nuclear Propulsion 2	SESSION 104 On-Orbit Refueling 1
Chair	Chair 97 - TBD	Chair 98 - TBD	Chair 99 - TBD	Chair 100 - TBD	Chair 101 - TBD	Chair 102 - TBD	Chair 103 - TBD	Chair 104 - TBD
15:00 1	413 - Cryogenic Hydrostatic Bearing Development Vasileios PASTRIKAKIS - SoftInWay UK Ltd - United Kingdom	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	087 - Thrust Measurement of the Quasi Steady-State Pulsed MPDT of the Modular Pulsed Propulsion System Rune FRITZSCHE - Institute of Space Systems - Germany	533 - Design Optimization of a Low-Power Ion Thruster Based on Zero-Dimensional Modeling Jiwoong JUNG - Pusan National University - South Korea	047 - Hall Thruster Operation Using Magnesium and Calcium as In-Situ Lunar Propellants Adam PARKS - University of Southampton - United Kingdom	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	020 - Design and Evaluation of a Breadboard System for Liquid and Gaseous In-Orbit Refuelling: METEOR Simone ALFANO - CNES - France
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 Jan Wilhelm GÄRTNER - Institute for Reactive Flows - Germany	376 - Two-fluid simulation of applied-field MPD thruster discharge using OpenFOAM Zhaoning ZHANG - Harbin Institute of Technology - China	619 - Experimental Investigation of the Neutralisation Process in a Dry Neutraliser Coupled with a RF Ion Thruster Klevis GASA - University of Southampton - United Kingdom	127 - Development of a 2kW-class Double Stage Hall Thruster Utilizing Zinc Propellant Yang XIONG - Harbin Institute of Technology - China	393 - Ammonia Catalytic Decomposition to Enhance the Performance of the Bimodal Ammonia Nuclear Thermal and Electric Rocket Elia PUCCINELLI - University of Pisa - Italy	057 - Design and Validation of a Rendezvous & Proximity Operations Concept for Commercial In-Orbit Refuelling with Loop Nicolas FOSSEPREZ - Dawn Aerospace - The Netherlands
15:40 3	766 - 20 kN HTP Turbopump Design & Development Edward FLETCHER - LENA Space - United Kingdom	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	539 - Effect of Electrode Geometry on Liquid Direct Injection Type MPD Thruster Using Water Propellant Atsushi KURANAGA - Tokyo Metropolitan University - Japan	625 - Pushing the Operational Envelope, Mitigating and Learning from In-Space Anomalies on the NPT30-I2 Gridded Ion Thruster Fleet Benno RIHA - ThrustMe - France	257 - Plume Diagnostics of a Double-channel TAL-type Hall Thruster Nanami TAKIGUCHI - Tokyo Metropolitan University - Japan	395 - Cycle Analysis of a Nuclear Bimodal Propulsion System using Ammonia as the Propellant Elia PUCCINELLI - University of Pisa - Italy	082 - Refuelling the Gateway – The Xenon Transfer System Malina REITEMEYER - OHB System AG - Germany
16:00 4		512 - Design of an Rotating Detonation Combustor for Heat-Flux Measurements Florian DITSCHKE - TUD Dresden University of Technology - Germany	752 - Development of an integrated reusable Upper Stage Ignition System Pascal KRINGE - Oresund Space Labs AB - Sweden	685 - Discharge and Propellant Mass Flow Control in Axially and Radially Segmented AF-MPD Thruster Designs Alexander BEHNKE - University of Stuttgart - 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	420 - On the development of a hybrid axisymmetric code for non-conventional Hall thrusters Iñaki FERNANDEZ - Universidad Carlos III de Madrid - Spain	459 - Performance Trade-offs in Space Nuclear Propulsion Systems: Impacts on Payload Mass Fraction and Mission Design Beyond Earth Orbit Saroj KUMAR - University of Alabama in Huntsville - United States	131 - Investigation of an External Refueler Tank to Resupply a Commercial LEO Space Station Tino KLAHN - Airbus Defence & Space - Germany

COFFEE BREAK

16:50	SESSION 105 E Pump propulsion systems	SESSION 106 Propellant Behavior Modeling	SESSION 107 Water Propulsion Systems 2	SESSION 108 Propulsion Systems and Mission Concepts for Exploration	SESSION 109 Monopropellant Thrusters	SESSION 110 Cooling & Materials for Chemical Propulsion	SESSION 111 Water Propulsion Systems 3	SESSION 112 On-Orbit Refueling 2
Chair	Chair 105 - TBD	Chair 106 - TBD	Chair 107 - TBD	Chair 108 - TBD	Chair 109 - TBD	Chair 110 - TBD	Chair 111 - TBD	Chair 112 - TBD
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	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	149 - Preliminary Feasibility Study of Aerobraking and Aeromaneuvering Reusable Orbital Transfer Vehicles Shinjiro TSUJI - JAXA - Japan	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	043 - Nb-Alloys, the Next Generation Material for High-Temperature Applications in space Melanie STENZEL - TANIJOBIS GmbH - Germany	144 - Water Resistojet Propulsion Systems for Small Satellites Dave GIBBON - Surrey Satellite Technology Ltd - United Kingdom	142 - Bipropellant Transfer System Failure Tolerant Techniques on Gateway Emilien GENET - Thales - France
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	595 - Characterization of novel regenerative cooled ceramic thruster for water electrolysis propulsion systems Jérôme HILDEBRANDT - Institute of Space Systems University Stuttgart (IRS) - Germany	221 - Preliminary Study on the Environmental Stability of Solid Propulsion Materials for Deep Space Kick Stages Atsushi TAKATA - IHI AEROSPACE Co., Ltd. - Japan	171 - Towards Qualification of a 1-N HTP Monopropellant Thruster Matteo PESSINA - FOTEC GmbH - Austria	253 - Experimental Investigation of Heat Transfer in an Electro-Resistively Heated Cooling Channel using Thin-Film Sensors Tobias STELZER - Technical University Braunschweig - Germany	200 - Water Propulsion - Developments towards flight Nicholas HARMANSA - ArianeGroup - Germany	491 - Orbit Fab Refuelling Interfaces Qualification Status and the Roadmap to Orbital Refuelling Sebastian HILL - Orbit Fab Ltd - United Kingdom
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	610 - Comparative analysis of water electrolysis versus conventional satellite propulsion systems Jérôme HILDEBRANDT - Institute of Space Systems University Stuttgart (IRS) - Germany	754 - BepiColombo Solar Electric Propulsion System (SEPS) Test Bench Activities Daykin-Iliopoulos ALEXANDER - Mars Space LTD - United Kingdom	432 - Design and Development of the Landing Platform Propulsion Subsystem for The Rosalind Franklin Mission Joseph HUNT - Airbus Defence and Space UK - United Kingdom	255 - Application and Validation of Transient Fuel Film Cooling Analysis to Hypergolic Thrusters Austin MORSE - Agile Space Industries - United States	220 - Test Results from the Aquarius Water Propulsion Breadboard Campaigns Sam WILSON - Airbus Defense & Space - United Kingdom	589 - Verification Model Testing of the Gateway Integrated Bipropellant Refuelling Subsystem William HARPER - Thales Alenia Space UK - United Kingdom
17:50 4		500 - A study on the Instability of Subcooled Flow Boiling in Parallel Channels Matsuda YOHEI - The University of Tokyo - Japan	616 - Mission Concepts and Propulsion Trade-Offs for a Large-Scale Enceladus Exploration Fabian RIEGELSBERGER - Technical University of Munich - Germany	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	528 - Poly-nitrogen HEDM. From the molecule to the propulsion system. Andrea ANIELLO - Ariane Group - France	721 - Update from Years of Compatibility Research Done on HTP Based Propulsion Systems Ane LODGAARD - Nammo Raufoss AS - Norway	638 - Characterization of Ionization and Acceleration in a Water-Vapor Hall Thruster Using Laser-Induced Fluorescence Aoma FUJIMORI - The University of Tokyo - Japan	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

INTERSESSION

KEYNOTE SPEECH #5

CLOSING ADDRESS - TBD

PhD Awards Ceremony

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 – SITAEEL 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**

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CONFERENCE VENUE

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

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<https://fieradellevante.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)
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EXHIBITION

If you are interested in receiving the exhibition opportunities details, please contact
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