



# DETAILED PROGRAMME

STATUS: 2ND APRIL

DAY 1 – WEDNESDAY 8TH APRIL

08:00	<b>Check-in (Closes at 8:50)</b> Willy-Messerschmitt-Straße 5, 82024 Taufkirchen			
09:00	<b>Opening Ceremony</b> Room ISS			
	<b>Space Education: Programs, Initiatives &amp; Strategies</b> Room ISS Chair: Gisela Detrell			
09:40	<b>ESA Academy - enhancing skills, boosting ambitions</b> Joost Vanreusel European Space Agency			
09:55	<b>Launch your career with ESA</b> Lucy Van Der Tas European Space Agency			
10:10	<b>Research opportunities for Students on Parabolic Flights, Sounding Rockets and Stratospheric Balloons (REXUS/BEXUS) provided by the German Space Agency at DLR</b> Dr. Michael Becker; Dr. Stang Katrin German Space Agency at DLR			
10:20	<b>Understanding Talent Dynamics in the European Space Sector</b> Gillian Chin European Space Policy Institute (ESPI)			
10:30	<b>Coffee Break</b> @ Launch Avenue & Room Juice			
	<b>Space Education: Programs, Initiatives &amp; Strategies</b> Room Galileo Chairs: Joost Vanreusel and Luisa Metten	<b>Innovative Learning Methodologies for Space Engineering</b> Room Vega Chairs: Class Olthoff and Philipp Reiss	<b>Stratospheric Balloons, UAVs, Robotic Platforms &amp; ground-based testing</b> Room Gaia Chairs: Armelle Frenea-Schmidt and Jayanth Narra	<b>Space Mission Design and Space Systems</b> Room Rosetta Chairs: Ramin Geshnizjani and Ivan Jesus Miralles Irlas
11:00	<b>Hands-On Strategies for Advancing Space Education in Pre-University and University Contexts</b> Catalin Chelmus Politehnica University of Bucharest (UPB)	<b>Bridging Academia and Industry: A Comparative Analysis of Systems Engineering Implementation in Student Space Projects</b> Emmanuelle David EPFL Ecole Polytechnique Fédérale de Lausanne	<b>Launching SupaeroMoon: How modularity, open-source hardware and 3D printing brought a new student team to life.</b> Eden Buch Kornreich	<b>Mechanical and Electronic Design of the GIFTS CubeSat developed from EIRSAT-1 Heritage</b> Pádraig McDermott University College Dublin
11:10	<b>Designing Practical Courses for Aerospace Students: From Microalgae Cultivation to Life Support System Simulation</b> Lina Salman Technical University Munich	<b>MASE: An Innovative Industry-Integrated Master's Programme for Accelerating Space Systems Engineers</b> Dr. Bernardo A. Delicado MasterX Aerospace Institute	<b>Cultivating Cyanobacteria and Engineers: The SpiCy Experiment and Interdisciplinary Team Development on the BEXUS Programme</b> Ilana Schürmeyer Technical University Munich	<b>Empowering Students through SERPENT: A Hands-On CubeSat Separation Mission</b> Laura-Kristin Scholtz UiT The Arctic University of Norway
11:20	<b>18 Months in: The ETH Zürich M.Sc. in Space Systems – Status and Early Outcomes</b> Dr. Simon Stähler ETH Zürich Space	<b>Advancing Space Systems Education through Connected Engineering: Insights from the Space Station Design Workshop 2025 Utilizing the Synera Workflow</b> Anastasia Natascha Bonidis University of Stuttgart, Institute of Space Systems	<b>Education and research hands-on experience on a custom stratospheric platform at the University of Pisa</b> Alessandro Filippeschi Università di Pisa	<b>Lessons learned from the design and early manufacturing phases of AcubeSAT</b> Christina Athanasiadou Aristotle University of Thessaloniki
11:30	<b>Project-based Learning in the Space Systems Master Degree Programme at the University of Oslo</b> Dr. Anja Kohfeldt University of Oslo	<b>Bringing Spaceflight to the Classroom: Teaching Spacecraft Maneuvers through a Flight Simulator</b> Gisela Detrell Technical University of Munich	<b>From Argentina to the Stratosphere: A Global Educational Balloon Initiative</b> Sedat Izcan University of Nottingham	<b>System-Level Design of a Fault-Tolerant Ka-Band Low-Noise Block for a LEO Antenna Evaluation Mission</b> Kieran O'Leary Heriot-Watt University
11:40	<b>Integrating Concurrent and Model-Based System Engineering into Hands-On Space Systems Education: Lessons Learned from the Space Mission and System Design Course at Politecnico di Torino</b> Serena Campioli Politecnico di Torino	<b>Educational Model of a Reaction Wheel-Based Attitude Control System Using CoppeliaSim</b> Prof. Dr. Antonio Da Silva Fariña PhD	<b>From Ground to Launch: Lessons from Environmental Testing of a Student-Built Nanocomposite Heatshield</b> Kristina Vukosavljević Delft University of Technology	<b>Improving Thermal Estimates for Student-Built CubeSats</b> Dhruvil Patadia Delft University of Technology (TU Delft)
11:50	<b>Turkish Space Education: Foundations, Development, and Methodological Approaches from 1996 to 2014 - A case study</b> Dr. Tamer Özalp PhD ResearchTurk Space, The Scientific Research and Technology Co.	<b>From flat-sat workshops to full mission design: Structuring hands-on and immersive learning in Space Masters' programmes</b> Thomas Garnier University Paris Saclay and Centrale Supélec University, FRANCE	<b>SYNAPSE: Neuromorphic Architecture for High Altitude and Space Based Systems</b> Violeta Mihai	<b>Quality of Service Analysis of the TinyGS Satellite Network</b> Cole Macek Universidad Carlos III de Madrid (UC3M)
12:00	<b>Teaching Life Support System modelling and simulation to undergraduate students</b> Felicitas Leese University of Stuttgart, Institute of Space Systems	<b>Solar picnic in orbit: From bananas to satellites launched into orbit</b> Dr. Mario Alejandro Mejía Escobar PhD Universidad Politécnica de Madrid	<b>Comparative Analysis of Lunar and Martian Rovers: Operational Challenges, Failure Causes, and Design Insights from Student and Professional Projects</b> Bartosz Arciszewski Rzeszów University of Technology / Legendary Rover Team	<b>Optimizing Constellation for Synthetic Aperture Radar (SAR) Satellite System: A Detailed Analysis of Altitude Fluctuation and its Impact on the Earth's Coverage.</b> Rahul Dada Sharmale
12:10	<b>Pioneering Space Engineering Education in Hungary: Lessons Learned from the First Cohorts at the Budapest University of Technology and Economics</b> Dorottya Milankovich Hungarian Astronautical Society	<b>IEEE Open PocketQube Kit: An Educational Open Platform for Space Missions</b> Roger Almirall Jou Universitat Politècnica de Catalunya	<b>Fused Deposition Modeling with PETG for Thermal and Vacuum Testing: Eliminating Trapped Gas with Open Infill</b> Urs Wilcke Eidgenössische Technische Hochschule Zürich / Jet Propulsion Laboratory, California Institute of Technology	<b>A Statistical Sampling Framework for Space Mission Design: SSA Case Study</b> Sibtain Ali Thepdawala Technical University of Munich (TUM)
12:20		<b>Reaching the Edge of Space: A High-Altitude Ballooning Education Program</b> Dr. Zsófia Bodo PhD SpaceBrewery	<b>Robotic Real-Time Docking Simulator - Force Filtering and Delay Handling</b> Jason Osayi	<b>Design and Development of the On Board Computer and Software Architecture for the AlbaSat mission</b> Marco Tommasini Università Degli Studi Di Padova
12:30	<b>Poster Flash Talks</b>	<b>From training to testing: the UPMSat program and IDR/UPM's hardware-in-the-loop ADCS test bench as catalysts for educational innovation</b> Sofía Mesón Pérez Research Institute "Ignacio Da Riva" (IDR/UPM), Universidad Politécnica de Madrid	<b>Management of Student Projects: Lessons Learned from the MVIPER Experiment</b> Lina Salman Technical University Munich	
12:40		<b>A laboratory set-up for hands-on learning of heat transfer in aerospace education</b> Prof. Pablo Salgado Sánchez PhD UNIVERSIDAD POLITÉCNICA DE MADRID	<b>P.H.I.L.E.A.S. – In Situ detection of Microplastic Particles onboard a BEXUS High Altitude Balloon</b> Friedrich Kempen	
12:50				
13:00	<b>Lunch Break</b> @ Park Casino			
14:30	<b>Keynote Talk: The Rosetta Mission - An Interplanetary Exploration Adventure</b> by Paolo Ferri Room ISS			
15:30	<b>Posters and Stands visit (with coffee and pastries)</b> @ Launch Avenue & Room Juice			
16:30	<b>Professional visits</b> Several locations (further information will be provided per email)			



DAY 2 – THURSDAY 9TH APRIL

08:00	Check-in Willy-Messerschmitt-Straße 5, 82024 Taufkirchen			
08:30	Keynote Talk: Failure as a didactic tool: Mars Analogs and Student projects by Gernot Grömer Room ISS			
	Space Education: Programs, Initiatives & Strategies Room Galileo Chairs: Natascha Callens and Ishan Bhat	New Space Opportunities and Startups Room Vega Chairs: Maria Castells Valero and Miquel Sureda	Space for Sustainability, Equity & Diversity Room Gaia Chairs: Gernot Groemer and Andy Hinkel	Space Mission Design and Space Systems Room Rosetta Chairs: Ramon Garcia and Marius Priemer
09:10	ESA Academy's new Rocketry Training Programme Maximilian Nuermberger SSC Space for the European Space Agency	The Development of a Non-Profit Led Satellite Design Lab Alexandru Victor Andrei ROSPIN	System for Detecting and Monitoring Pollution in Water Bodies Based on AI and Remote Sensing in Peru Dante Arhon Rojas Palacios Universidad Nacional Mayor de San Marcos	Solar sail CubeSat deployment test on stratospheric balloon Matthew Acevski Imperial College London
09:20	Space Academy of Île-de-France: Evolution of taught courses and educational practices in the space domain facing new emerging professions Prof. Philippe Keckhut PhD University Paris Saclay, FRANCE	Pre-certifications in the Laboratories of the Advanced Technology Unit of the Engineering School of UNAM, Juriquilla Campus Dr. Rocío Damara Merlo-Espino PhD UNAM	Space-Enabled Coastal Digital Twin for Climate Resilience: Integrating Earth Observation, IoT, and GeoAI to Mitigate El Niño Impacts Marisol Ramos Camacho Universidad Nacional Mayor de San Marcos	Design and Analysis of Solar Sail Deployment Mechanism for Small Satellites Natasha Thompson University of Nottingham
09:30	Talent Development in Catalonia's Space Sector Veronica Tercero Vargas Government of Catalonia	Space Engineering Contests for Space Education - The Example of the European Rover Challenge and the Polish Space Industry Zofia Kaczmarek AGH University of Krakow	A Feasibility Study on Active Debris Removal by Insertion into Natural De-orbiting Corridors Alexandre Marchon ISAE-SUPAERO	The DRAG ON Mission: Feasibility Assessment of a Novel VLEO ABEP Technology Demonstration Enes Bešli Leibniz Universität Hannover
09:40	Inspiring the New Generations through Space Communications: 25 Years of Amateur Radio on the International Space Station Alejandro Romero Albacete Research Institute of Informatics (I3A), University of Castilla-La Mancha	Design of sustainable suborbital passenger transport service via Student Aerospace Challenge MSc. Eng. Arkadiusz Garwol Gdansk University of Technology	Space Education as a Pathway to Sustainable Development and Educational Equity Dov Rosu Israel Space Agency	Design, testing and qualification of the LUNARIS lunar payload. Krzysztof Garbicz AGH University of Krakow
09:50	From research to the classroom: MOMSTER as a bridge between citizen science and space education Stijn Calders KU Leuven	Lunar IoT Constellation: Design and Feasibility of Global IoT Connectivity using LoRa Technology Dr. Fiorenza Ferrante Technische Universität Muenchen (TUM)	Expensive, Exclusive, Essential: Rethinking Access to Space Law Education Raoul Cardellini Leipertz School of Advanced Defence Studies (CASD-SSU)	Quantum-Assisted Initialization for Low-Thrust Earth-Moon Trajectories Gino Luciano Moretta MdB "La Sapienza" University of Rome
10:00	Biology in Space* - An International Educational and Outreach Initiative for Advancing Space Biology Ananda Padmanabhan Dileep Julius-Maximilians-Universität Würzburg	Germanium Float-Zone Crystal Growth under Microgravity: Development of In-Space Manufacturing Technologies Selim Borham Technical University Munich	Tempeh as Space Food for Southeast Asia's Space Technology Empowerment Isnandito Duarsa University of Melbourne	Mars University Science Expedition (MUSE): a Mars Surface Imager Mission Concept Pedro de S. C. Leonardo ETH Zürich
10:10	SGAC's Education & Professional Development Platform and Its Role in Space Education Marc-Philipp Paarmann DSI Aerospace GmbH		Design and simulation of a teleoperated robot based on the extrapolation of technologies from a Martian exploration rover for climate monitoring and crop seeding: A review Julio Cesar Tello Rojas Universidad Nacional Mayor de San Marcos	
10:20	The increasing need for holistic sat-comms industry training: an update on The Sat-Comms Game since SSEA 2022 Dr. Paul Illife The Sat-Comms Game			
10:30	Coffee Break @ Launch Avenue & Room Juice			
	Space Education: Programs, Initiatives & Strategies Room Galileo Chairs: Laia Lopez Llobet and Simon Stähler	Human Spaceflight Room Vega Chairs: Nigel Savage and Felicitas Leese	Space for Sustainability, Equity & Diversity Room Gaia Chairs: Alex Vergara and Núria Escursell i Serra	Space Mission Design and Space Systems Room Rosetta Chairs: Simone Scrocciolani and Andrina Keel
11:00	A Review of Student-led Initiatives in European Space Activities Maximilian von Arnim ISAE-SUPAERO	Experimental Investigation of a Scalable Flat-Panel Airlift Photobioreactor and Integration Considerations into Space Analog ECLSS Fabio Schäfer Technische Universität München	A Touch of Space Weather: Making Space Science Accessible Through Touch and Sound Dr. Lenka Zychova PhD Royal Belgian Institute for Space Aeronomy	NEST: A Modular Framework for Reproducible Software-in-the-Loop Testing of Spacecraft Systems Nathan Felber EPFL
11:10	Student Space Organization Landscape in Germany and Austria: Recent Developments, Problems and Opportunities Robin Schaub Bundesverband studentischer Raumfahrt (BVSR) e.V., WUSpace e.V.	OASIS: A Modular and Bioregenerative Lunar Base Concept Abril Campaña Alvarado King Abdullah University of Science and Technology (KAUST)	EqualOrbit: Expanding Accessibility in Space Dr. Zsafia Bodo PhD SpaceBrewery	Addressing Scalability Issues in IEEE 1516-2010 High Level Architecture (HLA) Hardware in the Loop Simulations Valentin Geschwandtner
11:20	Fostering a New Generation of Space Professionals - BVSR's Contributions to Space Education, Research, and Innovation Anastasia Natascha Bonidis Bundesverband studentischer Raumfahrt e.V.	Lunar Modular Habitat Architecture: A Hexagonal and Recoverable Design for International Collaboration (Lumo Habitats) Timo Martens Fraunhofer ISE	Bridging the Gap: Inclusion of Disabled Students in European STEM Education and Implications for Talent Development in the Space Sector Tomas Ducai University of Vienna	An Open-Source Framework for Implementing Model-Based Systems Engineering in Student Rocket Teams Using ARCADIA and Capella Abin B Munich University of Applied Sciences
11:30	Why Unique Learning Experiences Like the Space Station Design Workshop Matter Anastasia Natascha Bonidis University of Stuttgart	An Evaluation of Design Principles for Sustainable Human Habitats Beyond Earth Lucia Valenzuela Blue Marble Space Institute of Science	How the inclusion of women changes space exploration Johanna Erna Charlotte Teuchert Technische Universität Berlin	Simultaneous Project Management and Systems Engineering for Student Space Missions Michael Halvorson University of Alabama in Huntsville
11:40	CASIMAR: A BVSR Programme for Student Participation in Preparation for Astronautic Lunar Exploration Omar Abou Koutah Bundesverband studentischer Raumfahrt (BVSR) e.V.	Buddy Space: adaptive digital support for the psychological and operational training of crews on space and similar missions Prof. Alessandro Barazzetti QBT SAGL	HYPA-TIC: Inspiring Future Generations through Space and Digital Inclusion Dr. Estel Blay PhD Institute of Space Studies of Catalonia (IEEC)	Partitioned Real-Time Software Architecture for Academic CubeSat: From Design Standards to Mission Operations Luis Ortiz 0
11:50	Six Years of Shaping Poland's Space Future: The Educational Role of POLSA Student Council Maciej Piórkowski Gdansk University of Technology	Multitasking Efficiency in Spaceflight Simulation: A Dual-Task Study Jayanth Narra Technical University of Munich (TUM)	Bridging Gaps in Space Science Outreach: From Diverse Environments as Students and The Quest for Inclusive, Scalable Astronomy Education Théo Aplogan ISAE SUPAERO	Challenges in Preparing Operations for the Student CubeSat SOURCE and Approaches to Overcome Them Joris Janßen University of Stuttgart, Small Satellite Student Society at the University of Stuttgart (KSat e.V.)
12:00	SELGRA - Student European Low Gravity Research Association Jakob Mali Student European Low Gravity Research Association	From Lab to FLEXhab: Interdisciplinary Student Learning Experience in Life Support System Photobioreactor Set-up and Analysis Laura Soldo 0	Robotics Fun: Learning STEM through Play Ing Edwin Francisco Valdes-Arias BSc University of Cauca	Design of a Spacecraft Grounding Architecture for Plasma Environment in MEO: Towards a Framework for Small Satellites in NewSpace Akshata Raut Luleå University of Technology
12:10	Bringing Space Science to Classrooms: Initial Results and Outlook of the MVIPER DIY Kit Initiative Jayanth Narra Technical University of Munich (TUM)	A Modular 2U Growth Chamber for Studying Plant-Microbial Interactions on the International Space Station Niels Woerz PhD Leibniz Universität Hannover		ETH Zürich Space Master: Audacity, Autonomous flying VTOL on Mars Matteo Travaglini
12:20		Asclepius: Analogue Astronaut and Mission Control Training in a Student Organisation Sungyoon Joseph Hong		High-Level Strategies for the Rapid Development of an AOCS Simulator for a Student-Designed CubeSat Mission Dr. Luca Niero Politecnico di Torino
12:30	Poster Flash Talks			NAVIKA: Mission Architecture and Systems Engineering of a 6U CubeSat Proximity Operations and Docking Demonstration Ameya Marakarkandy IIT Bombay Student Satellite Program
12:40				The J2050 Project: Hands-On Space Systems Engineering Education Through the RedPill Mission Zoe Murgia Università Degli Studi Di Padova
12:50				Telemetry, Tracking and Communications for Alba CubeSat: Design and Validation of the Ground Segment Gesuen Cosmin Manole Università Degli Studi Di Padova
13:00	Lunch Break @ Park Casino			
14:30	Industry Panel Room ISS			
15:30	Posters and Stands visit (with coffee and pastries) @ Launch Avenue & Room Juice			
16:30	SSEA Group Picture			
17:00	Free Time			
18:30	Gala Reception (Only with Gala Reception Ticket) at Residenz - Residenzstraße 1, 80333 Munich			



DAY 3 – FRIDAY 10TH APRIL

08:00	Check-in Willy-Messerschmitt-Straße 5, 82024 Taufkirchen			
08:30	Keynote Talk: From Perfection to Excellence - What we can learn from Astronauts by Laura Winterling Room ISS			
	Space Education: Programs, Initiatives & Strategies Room Galileo Chairs: Alexander Kinnard and Lina Salman	Propulsion, Rockets, and Launch Systems Room Vega Chairs: Emmanuelle David and Felix Marti	Space Data Applications, Downstream Activities & Cybersecurity Room Gaia Chairs: Roland Pail and Daniel Schmid	Satellite Missions Room Rosetta Chairs: Vincenzo Messina and Sibtain Ali Thepdawala
09:10	ESA Academy's CubeSat Summer School Dr. Nigel Savage PhD ESA	ODIN (Orbital launcher Design competition) Julius Kleinau WüSpace e.V.	AI for Non-Mission Critical On-Board Data Processing – Paving the way for AI in Space Wejdene Mansour Technical University of Munich	ALEASAT: Targeted Earth Observation for Disaster Response Management Ayaan Agarwal
09:20	New Electromagnetic and Antenna Testing Training facilities at ESA Education's ESEC-Galaxia Dr. Loris Franchi SES for ESA	Dædalus Rocketry Federico De Martin Technische Universität München	AI-Enhanced Environmental Monitoring and Early Warning System for Climate Resilience in the Peruvian Highlands Marisol Ramos Camacho Universidad Nacional Mayor de San Marcos	Design, Characterisation and Educational Outcomes of a CubeSat and UV Spectrometer Vrinda Singhal University College London
09:30	Supporting Student-led Space Research: Insights from BEXUS 35 CURIE and BEXUS 36 EVE CURIE projects Damian Grabowski Warsaw University of Technology	An open-source context aware platform for accessible avionics design in student rocketry Saarang Balakrishnan	Beyond Detection: AI-Based Prediction of Bark Beetle Infestation Risk in Bavaria (SE Germany) Fusing Hyperspectral and Multispectral Satellite Data with Meteorological Data Janina Fraas Technical University Munich	CENSSAT-1: A space weather mission and an educational platform Anastasios Faidon Retselis University of Oslo
09:40	Stuttgart's First Satellite Design Workshop – One Week, Two Teams with One Goal: Design a Substantiable VLEO Satellite with an ABEP System Markus Graß University of Stuttgart, Institute of Space Systems	Project Management and System Engineering Principles for Successful Student Rocketry: Lessons from ISPIDA Georg Kurzmann Aerospace Team Graz	Advancing Methane Retrievals over Wetlands with Atmospheric Methane Observations and Emission Modeling: Insights from the CHARM-F CoMet 2.0 Airborne Campaign Arunima Das	EventSat: A CubeSat Mission for Neuromorphic Vision-Based Space Object Detection Ramón María García Alarcía Technical University of Munich (TUM)
09:50	The ROSPIN-SAT-1 Summer School: Concept, Implementation and Outcomes Sebastian Severin ROSPIN	High-Altitude Modular Experimental Rocket System for Reusable Suborbital Research and Education Catalin Chelmus Politehnica University of Bucharest (UPB)	Satellite Data as a Lifeline for Small Island Developing States Kaveri Shaili Sookoyee	Drishti: Vision-Based Relative Navigation Unit for CubeSat Docking Ameya Marakarkandy IIT Bombay Student Satellite Program
10:00	The ROSPIN Satellite Data Processing Masterclass Simonel-Olimpiu David ROSPIN	Lessons learned on the verification of explosively actuated valves for use in a pressure-fed bi-liquid sounding rocket Ivan Vladimirovic Nazarenko TUD Dresden University of Technology		A CubeSat-Based Langmuir Probe System for High-Resolution Ionospheric Electron Density Measurements Ana Sofia Ferreira Loureiro University of Porto, Faculty of Engineering (FEUP)
10:10	TRACE: AN INDUSTRY-EMBEDDED LEARNING ECOSYSTEM FOR ROVER ENGINEERING Jona Hoppe Cappgemini Deutschland GmbH			Real-time orbit determination onboard the ROMEO satellite Linus Köster Uni Stuttgart - IRS
10:20	Coffee Break @ Launch Avenue & Room Juice			
	Space Education: Programs, Initiatives & Strategies Room Galileo Chairs: Loris Franchi and Ian Benecken	Propulsion, Rockets, and Launch Systems Room Vega Chairs: Maximilian Nuernberger and Henrike Jakob	Space Science and Planetary Exploration Room Gaia Chairs: Laura Borella and Christian Scheidle	Satellite Missions Room Rosetta Chairs: Alessandro Golkar and Lily Ha
11:00	MDRS 330: Bridging Space Exploration and Public Outreach Julien Besson Club MARS / ISAE-SUPAERO	The Implications of Advanced Monopropellant Technology on University Space Programs Benjamin Kurtz California Polytechnic State University, San Luis Obispo	Biological Payloads on Student-Built Sounding Rockets: Procedures, Predicaments and Possibilities Tobias Weinert WARR e.V.	CubeSat LAB - From Hamburg to Space Thorbjörn Albrecht Technische Universität Hamburg, Smart Sensors Group
11:10	From SOURCE to SOURCE-2: Establishing Knowledge Transfer in Student CubeSat Development Ruben Hamm University of Stuttgart, Small Satellite Student Society at the University of Stuttgart (KSat e.V.)	Optimization of Inlet Nozzle Angles in a Student-Developed Ethanol-Oxygen Liquid Rocket Engine Tomas Pokorny	CAVE 0g – Cavitation Emulsification in Zero Gravity Jakob Mali University of Ljubljana (Faculty of mechanical engineering)	Lessons Learned from the Development and Operations of EIRSAT-1: Balancing Complexity, Reliability and Education in a Student-Led CubeSat Mission Caimin McKenna University College Dublin
11:20	The Skills Gap in Space Operations Laurenz Warnick DLR	PEM fuel cell powered electric pump-fed rocket propulsion system Tarun Susanth Sripathi Universität Bremen	Lunaris Payload– the backstory of a student's project that will reach the surface of the Silver Globe. Mgr Martyna Stelmach AGH University of Krakow	Bringing Space to your Back Garden: NottASat Jasmine Hulland PhD University of Nottingham
11:30	Bridging Education and Practice: Mentoring as a Catalyst for Space Workforce Development Sophie Schwarzenberg Rivada Space Networks / Technical University of Munich	Cycle Closure and Design Point Selection for an LCH4/LOX Expander-Bleed Engine: A Student Pre-Development Methodology Sebastian Greisinger	PERSEUSS: Exploring lunar caves from orbit with Non-Line-of-Sight imaging Daniel Barta ETH Zurich	An Automated System for Geofenced Payload Scheduling for the EIRSAT-1 CubeSat Caimin McKenna University College Dublin
11:40	EuRoC: Igniting Europe's Space Industry Dr. Susana Cabral Portuguese Space Agency	HyProSim: A Transient Simulation and Performance Prediction Framework for Hybrid Propulsion Systems Rafael Lino Porto Space Team, Faculty of Engineering of University of Porto	Development and Implementation of a Detector Dark Current Simulation Framework for Space Applications. Sandra Urbano Rodriguez ISAE-SUPAERO	Navigating Commercial Launch Pathways for Educational CubeSats Sage Russell California Polytechnic State University, San Luis Obispo
11:50	Mapping Space Workforce Skills in Romania: Bridging Sector Needs & Non-Formal Education Maria Alexandra Nita Romanian Space Initiative (ROSPIN)	Mission Concepts for a Large-Scale Enceladus Exploration Fabian Riegelsberger TUM	In-situ 3D-printing rovers at the Mars Desert Research Station Eden Buch Kornreich ISAE-SUPAERO	Adapting a Hands-on University Class in Satellite Operations to a Novel Satellite Generation Alexandra Gyalokay Technische Universität Berlin
12:00	Inspiring the Next Generation: Insights from organizing a space-themed workshop for primary school students. Justyna Koscielniak AGH University of Krakow	Educational Verification and Validation Toolkit for Guidance, Navigation, and Control Systems Álvaro Yuste Pubill Institut Supérieur de l'Aéronautique et de l'Espace (ISAE-SUPAERO)	Approach for planetary science and geology in Mars rover mobile laboratory Zuzanna Jacyszyn Rzeszów University of Technology / Legendary Rover Team	Bridging Science and Technology in the Scope of a Workshop: The AERIS Payload for ABEP and Gravity Measurement Victoria Kolback Technische Universität Berlin
12:10	Designing to Learn: The Space Station Design Workshop as a Model for Experiential Space Systems Education Abril Campaña Alvarado King Abdullah University of Science and Technology (KAUST)	Design and simulation of a high-power solar-powered VASIMR propulsion system for manned, single-stage, reusable spacecraft Mariel Antonella Huaranca Chilquillo Universidad Nacional Mayor de San Marcos	BepiColombo Stereo Imaging Channel scheduling optimization Dr. Alberto Avallone PhD University of Modena and Reggio Emilia	PocketQube Satellites: Democratising Access to Space for Educational Organisations Frazer Donoghue Alba Orbital
12:20	CASSINI Space Camp Spain: A Place-Based Pilot for Inclusive, High-Quality Space Education in Underserved Territories Prof. Dr. Noelia Sánchez Ortiz PhD Arribes E.	Design and Analysis of TIC, TOP and TICTOP using Method of Characteristics and Rao contouring. Hemanth Pasumarthi Technical University Munich	GIFTS: An 8U CubeSat to monitor Gamma-ray Bursts in the Multi-Messenger Era Cuán de Barra University College Dublin	ETHZ Space Systems Master: ALTIS – Advanced Low-Orbit Technology and Imaging System Aurel Kelterborn Eidgenössische Technische Hochschule Zürich
12:30				Design, Analysis, Fabrication, and Testing of the Structural Subsystem for Navika: A CubeSat Docking Mission Manyaman Naik IIT Bombay Student Satellite Program
12:40	Poster Flash Talks			The AERIS Mission: Integrating Student Collaboration and Innovation in Air-Breathing Electric Propulsion Design Lucia Tola Kungliga Tekniska Högskolan
12:50				Failure-Tolerant and Power-Optimal ADCS design for 3U CubeSats Emilien Coudurier EPFL Ecole Polytechnique Fédérale de Lausanne
13:00	Lunch Break @ Park Casino			
14:30	Industry Panel Room ISS			
15:30	Posters and Stands visit (with coffee and pastries) @ Launch Avenue & Room Juice			
16:30	Closing Ceremony Room ISS			



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## POSTERS

**DAY 1**  
**WEDNESDAY 8TH APRIL**

**DAY 2**  
**THURSDAY 9TH APRIL**

**DAY 3**  
**FRIDAY 10TH APRIL**

Innovative Learning Methodologies for Space Engineering			
1.1	<b>Gamification in Space Engineering Education: Training for Preventive De-escalation and Conflict Resolution in Outer Space</b> Artem Lomakin <i>FU - GURES programm</i>	2.1	<b>Hands-on learning with the Educational SATellite at UPM</b> Prof. Pablo Salgado Sánchez PhD <i>E-USOC, Universidad Politécnica de Madrid</i>
1.2	<b>micro:sat - An Educational micro:bit Satellite for Primary to High School Learning</b> Maxens Le Cam <i>Planète Science Occitanie</i>	2.2	<b>Vies Galactiques: An Inclusive, Scalable, and Scientifically Validated Game to Bridge the Gap Between Society and Astrophysical Research</b> Alexandre Vinas <i>ISAE SUPAERO</i>
New Space Opportunities and Startups			
		2.3	<b>New Space ADCS Solutions</b> Alper Guvercin BSc <i>Middle East Technical University</i>
Space Education: Programs, Initiatives & Strategies			
1.3	<b>Mapping the Current Landscape of Space Education Opportunities for Polish Students</b> Pawel Zyglewski <i>Adtran Networks</i>	2.4	<b>Bridging the Gap Between Academia and Industry Through Student Organisations</b> Sven Amberg <i>NTNU Department of Electronic Systems</i>
1.4	<b>Addressing Skill Gaps through the Structures for Space Specialization</b> Dr. Ines Uriol Balbin <i>TU Delft</i>	2.5	<b>Empowering UK Space Outreach: A Framework for Inspiring the Future Generations</b> Sophie Taylor <i>University of Nottingham</i>
1.5	<b>Integrating Space Diplomacy into National Space Education Strategies: A Ukrainian Perspective</b> Mykyta Kliapets <i>KU Leuven</i>	2.6	<b>Organisational Dynamics and Development Challenges in Student Satellite Missions: A Case Study of MOVE-III</b> Paul Ari Eberle <i>WARR e.V. / TUM</i>
1.6	<b>Aerospace Engineering Academic Program at Engineering School of UNAM in Mexico</b> Prof. CARLOS ROMO-FUENTES PhD <i>UNAM</i>	2.7	<b>Lessons Learned and Guidelines for Space Engineering Hackathons based on the SSDW 2025</b> Ferdinand Gerstenberger <i>KTH Royal Institute of Technology</i>
1.7	<b>VirtualORS: An Educational Emulator of the ISS Amateur Radio System for Accessible Space Communication Learning</b> Alejandro Romero <i>Albacete Research Institute of Informatics (I3A), University of Castilla-La Mancha</i>	2.8	<b>From Terrestrial Reactors to Deep Space: Bringing Radiation Biology to New Audiences</b> Melissa Temkov <i>McMaster University</i>
Space Science and Planetary Exploration			
1.8	<b>LunarLeaper: A university led legged robotic mission to the moon</b> Dr. Simon Stähler <i>ETH Zürich Space</i>	2.9	<b>Project VAMPIRE: VolATiles Measuring Probe for In-situ Resource Exploration</b> Isabella Wonner <i>WARR e.V. / TUM</i>
1.9	<b>Assessing Habitability and Searching for Life at Ariel with the CRISPI Mission Concept: Results from SmallSat Mission Design School 2025</b> Lucien Volk <i>TU Munich</i>	2.10	<b>Design and Fabrication of Mars Rover Prototype</b> Anushka Verma <i>Mars Rover Team (MRT), IIT Bombay</i>
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1.10	<b>D.I.N.O.labs: An Autonomous Experiment for Exploring Cell Membrane Stimulation During Hyper- and Microgravity</b> Fanny Rößler <i>WARR e.V.</i>	2.11	<b>µIMMUNE – Development of a microfluidic unit for real-time immune monitoring during spaceflight</b> Marina Cara Tuschen <i>LMU Hospital, Ludwig-Maximilians-Universität</i>
1.11	<b>Design and Analysis of a Type III COPV</b> Rafael Machado <i>Porto Space Team - FEUP</i>	2.12	<b>Automated OpenFOAM Framework for Aerodynamic Characterization of a Rocket During Ascent</b> Felix Marti Valverde M.Sc. <i>Technical University of Munich</i>
1.12	<b>A Thrust-Vector-Controlled UAV Demonstrator for Ground-Based Testing of Navigation and Control Algorithms for Reusable Rocket Systems</b> eng Tudor Gheorma <i>Politehnica University of Bucharest (UPB)</i>	2.13	<b>Janus: A design study of a combinable oxygen-based gridded ion propulsion unit for LEO debris removal</b> Patric Lang <i>Technische Universität München</i>
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1.13	<b>Toward Autonomous and Resilient Federated Satellite Systems: A Framework for Safety-Critical AI Integration</b> Martin Alatov <i>Technical University of Munich</i>	2.14	<b>Orbital Decay and End-of-Life Compliance of Propulsionless CubeSats in Low Earth Orbit</b> Rohit Subhash <i>Technical University of Munich</i>
1.14	<b>Design and Analysis of Deployable Origami-based Solar Panels</b> Silvia Rodríguez <i>University of León</i>	2.15	<b>Development of a 1U Cubesat Using Commercial of the Shelf Components</b> Ulrich Huber <i>University of Applied Sciences Munich</i>
1.15	<b>Orbital Manager: Celestlab based tool for learning and cubesat mission design</b> Pedro Lucas Conte Meyer <i>Universidade Federal de Santa Catarina</i>	2.16	<b>Simulation-Based Analysis of Single Event Effects on CubeSat On-Board Computers</b> Esra Şahin <i>Bursa Technical University</i>
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1.16	<b>Mission Design for Satellite Gravimetry using a 6U CubeSat</b> Matthew Darrow <i>Technical University of Munich</i>	2.17	<b>AstroBioQuest-TR: A Low-Cost Educational CubeSat Mission Empowering Students to Explore Life Beyond Earth</b> Rana Aleyna Dal BSc <i>Bursa Technical University</i>
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1.17	<b>Satellite Imagery and AI for Solar Radiation Estimation in Grid Congestion Analysis</b> Anh Huynh <i>Fontys University of Applied Sciences</i>		
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1.18	<b>Design, Development and Ground Qualification for the SUNFLOWER Thermal Subsystem</b> Delia Visconi <i>Università Degli Studi Di Padova</i>	3.14	<b>Democratizing Distributed Spacecraft Control: A Low-Cost Underwater CubeSat Analogue Built on the Arduino Uno Q</b> Dante Serrano Kobylansky <i>King Abdullah University of Science and Technology (KAUST)</i>