DETAILED PROGRAMME

STATUS: 6TH APRIL

DAY 1 – WEDNESDAY 8TH APRIL

08:00	**Check-in (Closes at 8:50)** Willy-Messerschmitt-Straße 5, 82024 Taufkirchen			
09:00	**Opening Ceremony** Room ISS			
	Space Education: Programs, Initiatives & Strategies Room ISS Chair: Gisela Detrell			
09:40	**ESA Academy - enhancing skills, boosting ambitions** Joost Vanreusel *European Space Agency*			
09:55	**Launch your career with ESA** Lucy Van Der Tas *European Space Agency*			
10:10	**Research opportunities for Students on Parabolic Flights, Sounding Rockets and Stratospheric Balloons (REXUS/BEXUS) provided by the German Space Agency at DLR** Dr. Michael Becker; Dr. Stang Katrin *German Space Agency at DLR*			
10:20	**Understanding Talent Dynamics in the European Space Sector** Gillian Chin *European Space Policy Institute (ESPI)*			
10:30	**Coffee Break** @ Launch Avenue & Room Juice			
	Space Education: Programs, Initiatives & Strategies Room Galileo Chairs: Joost Vanreusel and Luisa Metten	**Innovative Learning Methodologies for Space Engineering** Room Vega Chairs: Class Olthoff and Philipp Reiss	**Stratospheric Balloons, UAVs, Robotic Platforms & ground-based testing** Room Gaia Chairs: Armelle Frenea-Schmidt and Jayanth Narra	**Space Mission Design and Space Systems** Room Rosetta Chairs: Ramin Geshnizjani and Ivan Jesus Miralles Irles
11:00	**Hands-On Strategies for Advancing Space Education in Pre-University and University Contexts** Catalin Chelmus *Politehnica University of Bucharest (UPB)*	**Bridging Academia and Industry: A Comparative Analysis of Systems Engineering Implementation in Student Space Projects** Emmanuelle David *EPFL Ecole Polytechnique Fédérale de Lausanne*	**Launching SupaeroMoon: How modularity, open-source hardware and 3D printing brought a new student team to life.** Eden Buch Kornreich	**Mechanical and Electronic Design of the GIFTS CubeSat developed from EIRSAT-1 Heritage** Pádraig McDermott *University College Dublin*
11:10	**Designing Practical Courses for Aerospace Students: From Microalgae Cultivation to Life Support System Simulation** Lina Salman *Technical University Munich*	**MASE: An Innovative Industry-Integrated Master's Programme for Accelerating Space Systems Engineers** Dr. Bernardo A. Delicado *MasterX Aerospace Institute*	**Cultivating Cyanobacteria and Engineers: The SpiCy Experiment and Interdisciplinary Team Development on the BEXUS Programme** Ilana Schürmeyer *Technical University Munich*	**Empowering Students through SERPENT: A Hands-On CubeSat Separation Mission** Laura-Kristin Scholtz *UiT The Arctic University of Norway*
11:20	**18 Months in: The ETH Zürich M.Sc. in Space Systems – Status and Early Outcomes** Dr. Simon Stähler *ETH Zürich Space*	**Advancing Space Systems Education through Connected Engineering: Insights from the Space Station Design Workshop 2025 Utilizing the Synera Workflow** Anastasia Natascha Bonidis *University of Stuttgart, Institute of Space Systems*	**Education and research hands-on experience on a custom stratospheric platform at the University of Pisa** Alessandro Filippeschi *Università di Pisa*	**Lessons learned from the design and early manufacturing phases of AcubeSAT** Christina Athanasiadou *Aristotle University of Thessaloniki*
11:30	**Project-based Learning in the Space Systems Master' Degree Programme at the University of Oslo** Dr. Anja Kohfeldt *University of Oslo*	**Bringing Spaceflight to the Classroom: Teaching Spacecraft Maneuvers through a Flight Simulator** Gisela Detrell *Technical University of Munich*	**From Argentina to the Stratosphere: A Global Educational Balloon Initiative** Sedat Izcan *University of Nottingham*	**System-Level Design of a Fault-Tolerant Ka-Band Low-Noise Block for a LEO Antenna Evaluation Mission** Kieran O'Leary *Heriot-Watt University*
11:40	**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** Serena Campioli *Politecnico di Torino*	**Educational Model of a Reaction Wheel-Based Attitude Control System Using CoppeliaSim** Prof. Dr. Antonio Da Silva Fariña PhD *0*	**From Ground to Launch: Lessons from Environmental Testing of a Student-Built Nanocomposite Heatshield** Kristina Vukosavljević *Delft University of Technology*	**Improving Thermal Estimates for Student-Built CubeSats** Dhrumil Patadia *Delft University of Technology (TU Delft)*
11:50	**Turkish Space Education: Foundations, Development, and Methodological Approaches from 1996 to 2014 - A case study** Dr. Tamer Özalp PhD *ResearchTurk Space, The Scientific Research and Technology Co.*	**From flat-sat workshops to full mission design: Structuring hands-on and immersive learning in Space Masters' programmes** Thomas Garnier *University Paris Saclay and Centrale Supélec University, FRANCE*	**SYNAPSE: Neuromorphic Architecture for High Altitude and Space Based Systems** Violeta Mihai	**Quality of Service Analysis of the TinyGS Satellite Network** Cole Macek *Universidad Carlos III de Madrid (UC3M)*
12:00	**Teaching Life Support System modelling and simulation to undergraduate students** Felicitas Leese *University of Stuttgart, Institute of Space Systems*	**Solar picnic in orbit: From bananas to satellites launched into orbit** Dr. Mario Alejandro Mejía Escobar PhD *Universidad Politécnica de Madrid*	**Comparative Analysis of Lunar and Martian Rovers: Operational Challenges, Failure Causes, and Design Insights from Student and Professional Projects** Bartosz Arciszewski *Rzeszów University of Technology / Legendary Rover Team*	**Optimizing Constellation for Synthetic Aperture Radar (SAR) Satellite System: A Detailed Analysis of Altitude Fluctuation and its Impact on the Earth's Coverage.** Rahul Dada Sharmale
12:10	**Pioneering Space Engineering Education in Hungary: Lessons Learned from the First Cohorts at the Budapest University of Technology and Economics** Dorottya Milankovich *Hungarian Astronautical Society*	**IEEE Open PocketQube Kit: An Educational Open Platform for Space Missions** Roger Almirall Jou *Universitat Politècnica de Catalunya*	**Fused Deposition Modeling with PETG for Thermal and Vacuum Testing: Eliminating Trapped Gas with Open Infill** Urs Wilcke *Eidgenössische Technische Hochschule Zürich / Jet Propulsion Laboratory, California Institute of Technology*	**A Statistical Sampling Framework for Space Mission Design: SSA Case Study** Sibtain Ali Thepdawala *Techincal University of Munich (TUM)*
12:20	**Poster Flash Talks**	**Reaching the Edge of Space: A High-Altitude Ballooning Education Program** Dr. Zsofia Bodo PhD *SpaceBrewery*	**Robotic Real-Time Docking Simulator - Force Filtering and Delay Handling** Jason Osayi	**Design and Development of the On Board Computer and Software Architecture for the AlbaSat mission** Marco Tommasini *Università Degli Studi Di Padova*
12:30		**Educational Approach to On-board Cosmic Ray Removal for the PhotSat Project** Prof. Dr. Antonio Da Silva Fariña PhD *Universidad de Alcalá*	**Management of Student Projects: Lessons Learned from the MVIPER Experiment** Lina Salman *Technical University Munich*	
12:40		**From training to testing: the UPMSat program and IDR/UPM's hardware-in-the-loop ADCS test bench as catalysts for educational innovation** Sofía Mesón Pérez *Research Institute "Ignacio Da Riva" (IDR/UPM), Universidad Politécnica de Madrid*	**P.H.I.L.E.A.S. – In Situ detection of Microplastic Particles onboard a BEXUS High Altitude Balloon** Friedrich Kempen	
12:50				
13:00	Lunch Break @ Park Casino			
14:30	**Keynote Talk: The Rosetta Mission - An Interplanetary Exploration Adventure** by Paolo Ferri Room ISS			
15:30	Posters and Stands visit (with coffee and pastries) @ Launch Avenue & Room Juice			
16:30	Professional visits 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 Beşli *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 Universitaet 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 Iliffe *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., WüSpace 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. Zsofia 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** Nils Woerz PhD *Leibniz Universität Hannover*		**ETH Zürich Space Master: Audacity, Autonomous flying VTOL on Mars** Matteo Travaglini
12:20	**Poster Flash Talks**	**Asclepios: 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				**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 *Techhnische 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 Alarcia *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)*	**Natural Disaster Risk Assessment in Agriculture using Earth Observation** Vlad Koblicica *Technical University of Cluj-Napoca*	**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 *Capgemini 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 Nuermberger 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 – Cavitational 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 Rodríguez *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 Superieur de l'Aeronautique 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 Koßack *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 Huarancca 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	**Poster Flash Talks**			**Design, Analysis, Fabrication, and Testing of the Structural Subsystem for Navika: A CubeSat Docking Mission** Manyaman Naik *IIT Bombay Student Satellite Program*
12:40				**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			

DETAILED PROGRAMME

STATUS: 5TH APRIL

POSTERS

DAY 1 WEDNESDAY 8TH APRIL		DAY 2 THURSDAY 9TH APRIL		DAY 3 FRIDAY 10TH APRIL	
Innovative Learning Methodologies for Space Engineering					
1.1	**Gamification in Space Engineering Education: Training for Preventive De-escalation and Conflict Resolution in Outer Space** Artem Lomakin *FU - GURES programm*	2.1	**Hands-on learning with the Educational SATellite at UPM** Prof. Pablo Salgado Sánchez PhD *E-USOC, Universidad Politécnica de Madrid*	3.1	**A Case Study of CLTP14: How Knowledge from the PRELUDE Satellite is Used to Educate the Next Generation of Space Leaders** Nicki Leon Broichhausen *Julius Maximilian University of Würzburg*
1.2	**micro:sat - An Educational micro:bit Satellite for Primary to High School Learning** Maxens Le Cam *Planète Science Ocitanie*	2.2	**Vies Galactiques: An Inclusive, Scalable, and Scientifically Validated Game to Bridge the Gap Between Society and Astrophysical Research** Alexandre Vinas *ISAE SUPAERO*	3.2	**Moving from Paper to Model-Based Systems Engineering in Space Engineering – The STUPSAT Mission** Paul Thurley *TU Berlin*
New Space Opportunities and Startups					
		2.3	**New Space ADCS Solutions** Alper Guvercin BSc *Middle East Technical University*		
Space Education: Programs, Initiatives & Strategies					
1.3	**Mapping the Current Landscape of Space Education Opportunities for Polish Students** Pawel Zyglewski *Adtran Networks*	2.4	**Bridging the Gap Between Academia and Industry Through Student Organisations** Sven Amberg *NTNU Department of Electronic Systems*	3.3	**Esrange Space Centre: Where Education and Space Meet!** Armelle Frenea-Schmidt *SSC Space*
1.4	**Addressing Skill Gaps through the Structures for Space Specialization** Dr. Ines Uriol Balbin *TU Delft*	2.5	**Empowering UK Space Outreach: A Framework for Inspiring the Future Generations** Sophie Taylor *University of Nottingham*	3.4	**Fly a Rocket! Campaign 2024: Key Findings and Learning Outcomes from a Hands-On Sounding Rocket Project** Ashley Mei-Lynn Tan *Imperial College London*
1.5	**Integrating Space Diplomacy into National Space Education Strategies: A Ukrainian Perspective** Mykyta Kliapets *KU Leuven*	2.6	**Organisational Dynamics and Development Challenges in Student Satellite Missions: A Case Study of MOVE-III** Paul Ari Eberle *WARR e.V. / TUM*	3.5	**CAREER - A CubeSat Robotic Environment for Educational Research** Balthasar Jäger *Technical University of Berlin*
1.6	**Aerospace Engineering Academic Program at Engineering School of UNAM in Mexico** Prof. CARLOS ROMO-FUENTES PhD *UNAM*	2.7	**Lessons Learned and Guidelines for Space Engineering Hackathons based on the SSDW 2025** Ferdinand Gerstenberger *KTH Royal Institute of Technology*	3.6	**From Classroom to Orbit: The PULSE Mission as a Model for Experiential Learning in Space Technology** Siamak Najafinia *TU Berlin*
1.7	**VirtualIORS: An Educational Emulator of the ISS Amateur Radio System for Accessible Space Communication Learning** Alejandro Romero *Albacete Research Institute of Informatics (I3A), University of Castilla-La Mancha*	2.8	**From Terrestrial Reactors to Deep Space: Bringing Radiation Biology to New Audiences** Melissa Temkov *McMaster University*	3.7	**Student Lab programme at IPSA: how to introduce future engineers to space research ?** Dr. Anica LEKIC PhD *IPSA, Engineering school*
Space Science and Planetary Exploration					
1.8	**LunarLeaper: A university led legged robotic mission to the moon** Dr. Simon Stähler *ETH Zürich Space*	2.9	**Project VAMPIRE: VolAtiles Morphology Probe for In-situ Resource Exploration** Isabella Wonner *WARR e.V. / TUM*	3.8	**CAPIBARA: The CRD Instrument and the COSMOS Missions Concept** Joan Alcaide-Núñez *Ludwig-Maximilians-Universität München*
1.9	**Assessing Habitability and Searching for Life at Ariel with the CRISPI Mission Concept: Results from SmallSat Mission Design School 2025** Lucien Volk *TU Munich*	2.10	**Design and Fabrication of Mars Rover Prototype** Anushka Verma *Mars Rover Team (MRT), IIT Bombay*		
Human Spaceflight					
1.10	**D.I.N.O.labs: An Autonomous Experiment for Exploring Cell Membrane Stimulation During Hyper- and Microgravity** Fanny Rößler *WARR e.V.*	2.11	**µIMMUNE – Development of a microfluidic unit for real-time immune monitoring during spaceflight** Marina Cara Tuschen *LMU Hospital, Ludwig-Maximilians-Universität*	3.9	**Development of an Alternating Current Magnetohydrodynamic Drive for a Microgravity Photobioreactor Concept** Alexander Zieser *Technical Universit of Munich*
Propulsion, Rockets, and Launch Systems					
1.11	**Design and Analysis of a Type III COPV** Rafael Machado *Porto Space Team - FEUP*	2.12	**Automated OpenFOAM Framework for Aerodynamic Characterization of a Rocket During Ascent** Felix Marti Valverde M.Sc. *Technical University of Munich*	3.10	**ImpulseLabs: An Educational Open-Source Tool for Student Liquid Rocket Engine Design** Sarah Zaki Ansari *HAW Hamburg*
1.12	**A Thrust-Vector-Controlled UAV Demonstrator for Ground-Based Testing of Navigation and Control Algorithms for Reusable Rocket Systems** eng Tudor Gheorma *Politehnica University of Bucharest (UPB)*	2.13	**Janus: A design study of a combinable oxygen-based gridded ion propulsion unit for LEO debris removal** Patric Lang *Technische Universität München*	3.11	**Design, Simulation and Experimental Validation of a Multi-Stage Water-Propelled Rocket** Ing Nathaly Michell BONILLA VILLAQUIRA *Universidad del Cauca*
Space Mission Design and Space Systems					
1.13	**Toward Autonomous and Resilient Federated Satellite Systems: A Framework for Safety-Critical AI Integration** Martin Alatov *Technical University of Munich*	2.14	**Orbital Decay and End-of-Life Compliance of Propulsionless CubeSats in Low Earth Orbit** Rohit Subhash Technical University of Munich	3.12	**JAMS: Jupiter Analyzer of Magnetosphere with Solar sailing** Sabatino Santangelo German Aerospace Center (DLR)
1.14	**Design and Analysis of Deployable Origami-based Solar Panels** Silvia Rodríguez *University of León*	2.15	**Development of a 1U Cubesat Using Commercial of the Shelf Components** Ulrich Huber *University of Applied Sciences Munich*	3.13	**From Design to Qualification: Lessons Learned from Da Vinci Satellite Dice Payload Environmental Testing** Emiel Scholten *Delft University of Technology*
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Satellite Missions					
1.16	**Mission Design for Satellite Gravimetry using a 6U CubeSat** Matthew Darrow *Technical University of Munich*	2.17	**AstroBioQuest-TR: A Low-Cost Educational CubeSat Mission Empowering Students to Explore Life Beyond Earth** Rana Aleyna Dal BSc *Bursa Technical University*		
Space Data Applications, Downstream Activities & Cybersecurity					
1.17	**Satellite Imagery and AI for Solar Radiation Estimation in Grid Congestion Analysis** Anh Huynh *Fontys University of Applied Sciences*				
Stratospheric Balloons, UAVs, Robotic Platforms & ground-based testing					
1.18	**Design, Development and Ground Qualification for the SUNFLOWER Thermal Subsystem** Delia Visconi *Università Degli Studi Di Padova*			3.14	**Democratizing Distributed Spacecraft Control: A Low-Cost Underwater CubeSat Analogue Built on the Arduino Uno Q** Dante Serrano Kobylyansky *King Abdullah University of Science and Technology (KAUST)*