



L/E/A/R/N

Lunar Exploration Activities and Remote Navigation



Jacob Smith

Communication Officer

Intro: Jacob is currently studying for a degree in Mechanical Engineering at the University of Bath, having recently completed a successful 12-month internship at Airbus Defence & Space. Jacob has always been inspired by the wonders of space and of challenges of human spaceflight, and dreams of working in a space station in the future. But he also realises the importance of sharing his knowledge and experiences surrounding space with others, to help space to become more understood, recognised, and loved. No matter how busy, Jacob will find time to play his piano. He also likes to be active, and explore cities abroad. Of course the first thing he has to do is taste the local food!

Responsibilities: As communication officer Jacob will be the main point of contact between the mission control team and the crew. As well as spending time on ongoing Lunares experiments, Jacob will also be responsible for telerobotic operations - an area in which he is keen to develop his skills. This will involve operating rovers at the Lunares habitat as well as remote lander experiments in collaboration with a team at ESTEC. Finally, Jacob will manage the Biological Laboratory - taking care of the living organisms on board, and also oversee and maintain the habitat bioreactors.

Expectations: Jacob is excited at the opportunity to contribute to research in the field of human spaceflight. During the mission he is interested to experience the importance of scheduling as well as communication in space missions. Jacob is also looking forward to conducting moonwalks and learning how complex they are.

As an engineer, Jacob is excited to get hands on with the habitat systems and equipment. He hopes this experience of living in isolation will give him a unique appreciation of the challenges it entails which he could apply to the engineering of future space habitats.

Mission 9_ crew mission start/end: 25 August - 9 September 2018



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Joanna Jurga

Commander

Responsibilities: The aim of the UN / SAFE research in Lunares Habitat is to examine the way of achieving a sense of security in an environment created for living in isolation. UN / SAFE research is closely connected with Joanna PhD study, and her idea of experiments should show how a holistic way of life, and small changes in surrounding space can change the standard of living even such a difficult areas like cosmic habitats. Joanna always looks to the future in her design work and it is extremely important to her to anticipate possible social problems and look for solutions that will make our life easier.

Intro: Girl with a dragon tattoo, designer by profession and traveler by passion. Joanna studied painting in Singapore and industrial design in Warsaw. Now she is undertaking her PhD studies in Gdańsk (Poland) on the subject of the sense of security in space. She is a pistol who has been practicing Zen for years and for whom every day generally has 48 hours, except of course when it has 72. Joanna is a nomad who freely brings up social and futurist issues in her design. Her passions include the culture of the Far East, plant cuisine and motosport.

Expectations: As Commander of the Mission, Joanna will try to keep all of the team in the best possible condition (physical and mental). Her experimental work will be strongly connected with relaxation, meditation and yoga practice during all of the mission. Her holistic way of life together with teaching skills will her to keep good atmosphere amongst team members. She will also take the responsibility of her crew members, and will do everything she can to give her team the best conditions in which to learn and conduct scientific experiments.

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Matej Poliacek

Data Officer

Responsibilities: As the Data Officer, Matej will be monitoring the status of the mission. He will be in charge of the in-situ 3D printing when required by the crew. He will also assist crewmates with operating spectrometer and stereo camera provided for the mission by the International Lunar Exploration Working Group (ILEWG) from ESTEC. Finally, Matej will run his own experiments to assess the operator performance when operating a rover with different modes of supervision, expand the functionality of the habitat rover with remote guidance from the mission control centre, and conduct computer vision monitoring activities of the habitat and EVA area.

Intro: Matej is a Young Graduate Trainee at ESA-ESTEC. His work at ESA is mainly focused data modelling in the field of model-based systems engineering and on software engineering for ground support equipment. With a Master's degree in Software Development and Bachelor's degree in Statistics, both from the University of Glasgow, he's had the opportunity to work on projects from a number of fields during studies and work. These include data analysis for planetary sciences, robotics, or development of an android app demonstrating benefits of navigation technologies provided by Galileo.

Expectations: Matej's primary motivation stems from his goal to support ongoing scientific investigations, and thus contribute to understanding the complex issues spacefaring humans might face.

By participating in the LEARN mission at Lunares, he also aims to expand the breadth of his experience with the space sector by closely familiarising himself with the field of human spaceflight.

Based on his proposed experiments and responsibilities, he is looking forward to gaining practical experience in operating and maintaining robotic systems, making efficient use of the 3D printing facility, as well as working in a challenging environment.

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Jekaterina Timohhina

Crew Medical Officer

Responsibilities: Jekaterina will be coordinating the experiment involving COAST and PIRATE telescopes based on Tenerife as part of her OU cooperation. As part of the team collaboration she hopes to get involved with robotic teleoperation experiment. She will also be running a series of permanent and ongoing Lunares experiments.

Intro: Jekaterina is studying Physics BSc at the Open University and doing public and educational outreach as part of her role of an outreach coordinator in The Planetary Society. She is passionate about Solar system exploration and computational physics. In her free time she enjoys exploring planet Earth and experiencing different cultures.

Expectations: Jekaterina hopes to learn about what life as part of the mission crew is really like, focusing on the mental health, isolation and using remote links to operate telescopes from the distance.

She is open to learning as much as possible from her crewmates' experiments.



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Kamil Kosko

Vice-Commander

Responsibilities: Kamil as Vice-Commander will substitute for the Commander during her absence, he'll be responsible for managing meetings and the crew's daily schedule, overseeing the course of the experiments and taking care of devices. He'll make sure that data obtained from routine check-ups (blood pressure, HR etc.) makes it's way to the Mission Control Crew, as well as providing positive thinking in the group, and using his specialism to carry out oral and general health checks for the crew.

Intro: Kamil is a senior year dentistry student at Pomeranian Medical University in Szczecin. He's in love in dentistry therefore he likes to increase his skills participating in courses and trips such as Erasmus-Plus program. Plus he has spent 2 months in London- The London Centre for Implant & Aesthetic Dentistry Ltd. learning form the best, and he was a volunteer in Comunita San Patrignano - Coriano, Italy. His hobbies are travelling and water sports: swimming, windsurfing and diving.

Expectations:

This is his first time doing such as mission therefore it will be an un-forgettable experience full of the new knowledge. He would like to support his crew mates with good energy and humor. He hopes that his and his partner's research to observe changes during a change of diet for astronauts will help plan better diets for space explorers in the future. The research will also contribute to making it easier to keep good oral hygiene, and will provide help for medical problems during others missions.

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