

PIĄTEK / FRIDAY

Zawody łazików i Strefa Wystawców są dostępne dla odwiedzających codziennie (09–11 września 2022, od piątku do niedzieli) w godzinach 10.00–17.00 na kampusie Politechniki Świętokrzyskiej w Kielcach. Poniżej znajduje się harmonogram prelekcji i debat. Udział w wydarzeniu jest bezpłatny. Wydarzenie transmitowane jest po angielsku na żywo na stronie roverchallenge.eu

The rover competition and Exhibitor Zone are open to visitors every day (September 09–11, 2022, Friday through Sunday) from 10:00 a.m. to 5:00 p.m. on the campus of Kielce University of Technology. Below is a program of lectures and debates. Participation in the event is free of charge. The event is streamed live in English at roverchallenge.eu

Godzina Time	Miejsce Place	Język Language	Tytuł Title	• Transmitowane na roverchallenge.eu Broadcasted on roverchallenge.eu
10.00 10am	Aula Auditorium	Angielski English	• Beginning of the first day Milena Ratajczak & Jury representatives	
10.30 10.30am	Aula Auditorium	Angielski English	• Future technologies, research, and projects of space agencies and private companies Keynote presentation – Artemis Westenberg (Explore Mars Europe) Debate introduction.	
11.00 11am	Aula Auditorium	Angielski English	• How will new science and technologies change the world in the coming years? Debate – Artemis Westenberg (Explore Mars Europe); Erin Nickerson (U.S. Consulate General in Krakow); Ilaria Cinelli (Aerospace Human Factors Assoc. and Aerospace Medical Council); Milena Ratajczak (astronomer); Patrycja Karwowska (POLSA/PERASPERA); Adriana Marais (quantum biologist, Proudly Human's Off-World Project) What will the discoveries in genetics, cosmology, and AI research bring in the coming years of the 21st century? Will we be able to start time travel, reach the stars and meet other civilizations in space? Moderator: Aleksandra Bukala	
11.50 11.50am	Marsyard Marsyard Studio	Angielski English	• What do rovers do on Mars and Marsyard? Remco Timmermans will talk to (among others): Maria Antonietta Perino, Andrea Merlo (Thales Alenia Space), Oskar Zdunek (POLSA) Live from the Marsyard studio. A conversation with the Jury and Space Experts on the applications of rovers in space exploration, with a mention of drones.	
11.50 11.50am	Aula Auditorium	Polski Polish	Spotkanie z Astrofazą Spotkanie z popularyzatorem nauki	
14.00 2pm	Aula Auditorium	Angielski English	• Future Mars Exploration Keynote presentation – Dr Gernot Groemer Debate introduction.	
14.30 2.30pm	Aula Auditorium	Angielski English	• Living in a martian city Debate – Gernot Groemer (OeWF); Leszek Orzechowski (Lunares, metaverse); Romain Fonteyne (Foresight Institute, ESA); Ilaria Cinelli (Aerospace Human Factors Assoc. and Aerospace Medical Council); Joanna Jurga (designer, sense of security specialist); Thais Russomano (InnovaSpace), Nicolas Peter (ISU) An interdisciplinary conversation with experts from various fields about psychological, physiological, and biological aspects of life on Mars. A discussion on its future economy, governance, and possible lifestyles. Moderator: Milena Ratajczak	
15.20 3.20pm	Aula Auditorium	Polski Polish	Podróże kosmiczne a transhumanizm Polska Fundacja Fantastyki Naukowej Panel dyskusyjny: Wojciech Gunia (pisarz fantastyki, laureat licznych nagród literackich); Mateusz Łukasiak (prezes Polskiego Stow. Transhumanistycznego); Kamil Muzyka	
15.20 3.20am	Marsyard Marsyard Studio	Angielski English	• Competencies in the space sector – who's needed? Remco Timmermans will talk to (among others): Przemek Rudź (Future Space, POLSA) Live from the Marsyard studio. A conversation with the Jury and Space Experts on the required competencies in the space sector.	
16.20 4.20pm	Aula Auditorium	Angielski English	• Wrap-up of the first day Milena Ratajczak	
16.30 4.30pm	Aula Auditorium	Angielski English	Value chain in space mining and how it supports challenges on Earth Dorian Leger (iSpace), Jarosław Bąkała (CBK PAN), Dariusz Marciniak (ING PAN), Jonathan Geifman (Project Helios), ETA Space (TBC). Moderators: Mateusz Józefowicz & Albert Lewandowski (European Space Foundation) Space Mining is rapidly growing sector. It contains multiple stakeholders and requires cooperation between many companies to achieve successful operations in the outer space. We plan to show the end – to – end value chain, the business opportunities and how it operates both on Moon and on Earth.	

COORGANIZERS



PARTNERS



SUPPORTING PARTNERS



AWARD SPONSORS



PARTIALLY FINANCED BY THE "SOCIAL RESPONSIBILITY OF SCIENCE" PROGRAM OF THE MINISTER OF EDUCATION AND SCIENCE.

SOBOTA / SATURDAY

Zawody łazików i Strefa Wystawców są dostępne dla odwiedzających codziennie (09–11 września 2022, od piątku do niedzieli) w godzinach 10.00–17.00 na kampusie Politechniki Świętokrzyskiej w Kielcach. Poniżej znajduje się harmonogram prelekcji i debat. Udział w wydarzeniu jest bezpłatny. Wydarzenie transmitowane jest po angielsku na żywo na stronie roverchallenge.eu

The rover competition and Exhibitor Zone are open to visitors every day (September 09–11, 2022, Friday through Sunday) from 10:00 a.m. to 5:00 p.m. on the campus of Kielce University of Technology. Below is a program of lectures and debates. Participation in the event is free of charge. The event is streamed live in English at roverchallenge.eu

Godzina Time	Miejsce Place	Język Language	Tytuł Title	• Transmitowane na roverchallenge.eu Broadcasted on roverchallenge.eu
10.00 10am	Aula Auditorium	Angielski English	• Beginning of the second day Milena Ratajczak & Jury representatives A summary of the first day of the ERC competition.	
10.30 10.30am	Aula Auditorium	Angielski English	• Lunar exploration Keynote presentation – Maria Antonietta Perino (Thales Alenia Space) Debate introduction.	
11.00 11am	Aula Auditorium	Angielski English	• The Moon – from survival to living Debate – Gianfranco Visentin (ESA / PERASPERA); Reut Sorek Abramovich (Ben Gurion Univ., Mars Society Israel); Igor Kolek (NEUROSPACE); Javier Rodríguez González (CDTI / PERASPERA); Carlos Espejel (iSpace); Maria Antonietta Perino (Thales Alenia Space) An interdisciplinary conversation with experts from various fields about our lives and work on the Moon, how to survive extreme conditions, human-robot cooperation, and a zero-waste lifestyle. Moderator: Milena Ratajczak	
11.50 11.50am	Marsyard Marsyard Studio	Angielski English	• Differences between Mars and lunar rovers Remco Timmermans will talk to (among others): Gianfranco Visentin (ESA / PERASPERA), Krzysztof Walas (Poznan University of Technology), KP Labs, Romain Fonteyne (Foresight Institute, ESA), Grzegorz Wrochna (POLSA) Live from the Mars Yard studio. A conversation with the Jury and Experts on the differences between Mars and Moon rovers.	
11.50 11.50am	Aula Auditorium	Polski Polish	Prelekcja o Marii Kunic Stowarzyszenie Marii Kunic – Kazimierz Błaszczak Celem Stowarzyszenia Astronomki Marii Kunic jest edukacja i popularyzacja astronomii i astronautyki wśród dzieci, młodzieży i dorosłych. W czasie prelekcji będzie można dowiedzieć się więcej na temat niezwykłych odkryć naukowych Marii Kunic.	
12.05 12.05pm	Aula Auditorium	Angielski English	Presentation about NEUROSPACE Maximilian von Unwerth Neurospace is a Berlin-based NewSpace company founded in 2020 by a group of experienced space engineers, programming specialists and physicists. It has set itself the goal of developing space technology enhanced with machine learning capabilities and is turning its eyes toward the moon. Representatives of the company will present to the ERC audience, their concept of a lunar rover.	
12.25 12.25pm	Aula Auditorium	Polski Polish	Kosmiczny Teleskop Jamesa Webba – jak go zbudowano, jak trafił na orbitę i co pokaże? Prelekcja – Rafał Grabiński	
14.00 2pm	Aula Auditorium	Angielski English	• A new generation of space stations Keynote presentation – Stefaan De Mey (ESA) Debate introduction.	
14.30 2.30pm	Aula Auditorium	Angielski English	• Art and living in space Debate – Dolly Daou (Food Design Lab, Cumulus org.); Niamh Shaw (art & engineering); Javier Rodríguez González (CDTI / PERASPERA); Andrea Merlo (Thales Alenia Space); Ben Haldeman (LifeShip) An interdisciplinary conversation with experts from various fields about the meaning of art, design, photography, music, and even gardening on space stations. Applied technologies in space. Moderator: Milena Ratajczak	
15.20 3.20pm	Aula Auditorium	Angielski English	• Building Space Economy and commercialize Science Albert Lewandowski; Krzysztof Kanawka; Inna Uwarowa; Red Boumghar (CEO & Founder of Parametry.ai, Libre Space Foundation); Julien Lamamy (iSpace); Savva Kerdelmidis (Crowd Funded Cures); Iñigo Estébanez de la Mata (Starburst Aerospace) A discussion on building business models for projects operating in orbit and on the Moon in such a way that they are able to make money for themselves and that the private sector can realistically develop in space. Elements of the chain necessary for the new economy and potential risks will be presented.	
15.20 3.20pm	Marsyard Marsyard Studio	Angielski English	• Future of the space market labor Remco Timmermans will talk to (among others): Artemis Westenberg, Maria Antonietta Perino, Andrea Merlo, Larie Cujko Live from the Mars Yard studio. What new professions will space exploration bring? What competencies should the next generation develop?	
16.20 4.20pm	Aula Auditorium	Angielski English	• Wrap-up of the second day Milena Ratajczak	

PATRON DNIA



COORGANIZERS



HOST CITY



HONORARY PATRONS



PARTNERS



MEDIA PATRONS



SUPPORTING PARTNERS



AWARD SPONSORS



PARTIALLY FINANCED BY THE "SOCIAL RESPONSIBILITY OF SCIENCE" PROGRAM OF THE MINISTER OF EDUCATION AND SCIENCE.

NIEDZIELA / SUNDAY

Zawody łazików i Strefa Wystawców są dostępne dla odwiedzających codziennie (09–11 września 2022, od piątku do niedzieli) w godzinach 10.00–17.00 na kampusie Politechniki Świętokrzyskiej w Kielcach. Poniżej znajduje się harmonogram prelekcji i debat. Udział w wydarzeniu jest bezpłatny. Wydarzenie transmitowane jest po angielsku na żywo na stronie roverchallenge.eu

The rover competition and Exhibitor Zone are open to visitors every day (September 09–11, 2022, Friday through Sunday) from 10:00 a.m. to 5:00 p.m. on the campus of Kielce University of Technology. Below is a program of lectures and debates. Participation in the event is free of charge. The event is streamed live in English at roverchallenge.eu

Godzina Time	Miejsce Place	Język Language	Tytuł Title	• Transmitowane na roverchallenge.eu Broadcasted on roverchallenge.eu
10.00 10am	Aula Auditorium	Angielski English	<ul style="list-style-type: none"> Beginning of the third day Milena Ratajczak & Jury representatives A summary of the second day of the ERC competition. 	
10.30 10.30am	Aula Auditorium	Angielski English	<ul style="list-style-type: none"> How to make business on Space Technologies? Keynote presentation – Justyna Redelkiewicz (EUSPA) Debate introduction. 	
11.00 11am	Aula Auditorium	Angielski English	<ul style="list-style-type: none"> Financing in the space industry Debate – Pedro Duque (ESA astronaut); Miquel Pastor Vinader (ESA former consultant); Andrea Novák (Herius Capital); Íñigo Estébanez de la Mata (Starburst Aerospace); Troy McCann (Moonshot); Michael Healy An interdisciplinary conversation with experts from various fields about financing in the space industry. Moderators: Katarzyna Malinowska, Michał Sz wajewski 	
11.50 11.50am	Marsyard Marsyard Studio	Angielski English	<ul style="list-style-type: none"> AI and autonomous robots Remco Timmermans will talk to (among others): Gianfranco Visentin (ESA / PERASPERA); Oskar Zdunek (POLSA); Romain Fonteyne (Foresight Institute, ESA) Live from the Mars Yard studio. What benefits does designing better autonomous space robots give us? What new applications for such technologies will we find in the future? 	
11.50 11.50am	Aula Auditorium	Polski Polish	<p>Start(up) w sektorze kosmicznym – dla małych i dużych firm</p> <p>Krakowski Park Technologiczny – Jarosław Chojnacki</p> <p>O tym od czego zacząć mając pomysł w sektorze kosmicznym oraz jak w dużych firmach wykorzystać „kosmiczne technologie” do budowania przewagi konkurencyjnej.</p>	
12.10 12.10pm	Aula Auditorium	Angielski English	<ul style="list-style-type: none"> Robotics and new technologies used in ocean exploration. Nautilus Surprise from the ocean! Online connection + Q&A 	
14.00 2pm	Aula Auditorium	Angielski English	<ul style="list-style-type: none"> Overview of space-related advertising and the most interesting communication campaigns from the space sector Keynote presentation 	
14.30 2.30pm	Aula Auditorium	Angielski English	<ul style="list-style-type: none"> How to talk about space? Debate – Łukasz Wilczyński, Remco Timmermans & guests An interdisciplinary conversation with experts from various fields about how we should talk about space, how to communicate its complex topics, and sway the public. 	
16.00 4pm	Aula Auditorium	Angielski English	<ul style="list-style-type: none"> Award and closing ceremony 	

COORGANIZERS



HOST CITY



HONORARY PATRONS



PARTNERS



SUPPORTING PARTNERS



AWARD SPONSORS



PARTIALLY FINANCED BY THE "SOCIAL RESPONSIBILITY OF SCIENCE" PROGRAM OF THE MINISTER OF EDUCATION AND SCIENCE.