

جنّاح  
المراة  
WOMEN'S  
PAVILION

IN COLLABORATION  
WITH Cartier

presents



المجلس العالمي للمرأة  
WOMEN'S WORLD MAJLIS

in collaboration with



and

I FEEL  
SLOVENIA

# SPACE WEEK

**Mission Equality:** Expanding Equal Opportunities in the Space Economy

Women's Pavilion Programming, in partnership with World Majlis

**Participant Briefing**



**SPACE  
WEEK**

17-24 October 2021

**HOW ARE WOMEN  
LEADING THE  
TRAJECTORY OF  
SPACE ECONOMY AND  
EXPLORATION?**

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| <b>Date</b>  | Wednesday, 20th October 2021  |
| <b>Time</b>  | <ul style="list-style-type: none"> <li>• Arrival time at 2:30 PM at the Women's Pavilion Majlis</li> <li>• Discussion on stage 3:00-4:30 PM Dubai Time</li> <li>• The Women's World Majlis will be followed by a networking reception at the Slovenia Pavilion 5:00 – 7:00 PM Dubai Time</li> </ul> |
| <b>Venue</b> | Women's Pavilion Majlis   |

**Space economy could be the next trillion dollar industry by 2040. How do we ensure that women share its opportunities equally and fully participate in shaping this new space market for public interest.**

More than just exploration missions, space is a whole ecosystem that provides also remarkable economic opportunities. From exploring space resources such as mining asteroids, to space tourism, from designing more economic and sustainable rockets and space equipments to satellites providing broadband internet and invaluable data for sustainable development, the space industry is expected to generate a revenue of more than \$1 trillion or more by 2040, up from \$350 billion today (Morgan Stanley, 2018).

**Brief**

The commercial use of outer space however raises an increasing number of legal questions around public/private property, space traffic and space debris management. For the new industry to flourish in a sustainable way and for the common good, these questions will need answers and everyone's contribution to shape the right policies.

Today — with incredible opportunities on the horizon, from space mining to off-world settlements — new questions arise as to how the benefits of space exploration can reach the whole of humanity.

- What impact would an increased participation of women have on the space economy and space regulation?
- How do we ensure women are taking leading roles in shaping the space economy sector?
- How does having a gender-equitable space economy further advance sustainable development?

Please join us in this Women's World Majlis to collectively shape the newly emerging space economy sector and build a more equitable future.

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## PARTICIPANTS

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### Shelli Brunswick – Moderator

Chief Operating Officer, Space Foundation, US



Brunswick brings a broad perspective and deep vision of the global space ecosystem — from a distinguished career as a space acquisition and program management leader and congressional liaison for the U.S. Air Force to her current role overseeing Space Foundation's three primary divisions: Center for Innovation and Education, Symposium 365, and Global Alliance.

Advocating for space technology innovation, entrepreneurship, diversity and inclusion, Shelli collaborates with organizations around the world to connect commercial, government and educational sectors. Shelli was named the 2020 Diversity & Inclusion Officer and Role Model of the Year by WomenTech Network.

Shelli plays an active leadership role with United Nations Space4Women, WomenTech Network, Islamic World Educational, Scientific and Cultural Organization (ICESCO), World Business Angels Investment Forum (WBAF) Global Women Leaders Committee (GWLC), New York University, Global Policy Insights – Global Policy, Diplomacy and Sustainability (GPODS) Fellowship program, Global Policy Insights -- Quad Forum, Space Tourism Society Africa, Tod'Aérs, Lifeboat Foundation, Women in Aerospace Foundation, Women's Global Gathering, Manufacturer's Edge, and Colorado Springs Chamber & EDC.

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### Simonetta Di Pippo – Opening statement

Director, United Nations Office for Outer Space Affairs (UNOOSA), Italy



Simonetta Di Pippo is Director of UN Office for Outer Space Affairs (UNOOSA), a position which sees her lead the Office's strategic, policy and programmatic activities and advising the UN Secretary-General on space affairs. Prior to joining UNOOSA, she served as Director of Human Spaceflight at the European Space Agency, and previously also as Director of the Observation of the Universe at the Italian National Space Agency, ASI. She is an Academician of IAA and a member of WEF Global Future Council on Space Technologies since 2016 and its co-chair since 2020. She co-founded Women in Aerospace Europe in 2009 and in 2017 became a UN International Gender Champion.

She holds a Master's Degree in Astrophysics and Space Physics from University "La Sapienza", and Honoris Causa Degree in Environmental Studies, and an Honoris Causa Degree of Doctor in International Affairs. Ms. Di Pippo was knighted by the President of the Italian Republic in 2006 and, in 2008, the International Astronomical Union assigned the name "dipippo" to asteroid 21887 in recognition of her efforts in space exploration. She was also featured in a publication HERstory: A Celebration of Leading Women in the United Nations, a tribute to women's participation in the development of the UN. Among other awards, she was awarded the Hubert Curien Award in 2018 as the first woman laureate.

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## Section 1: Space economy and legislation

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### **Maruška Strah -- Panelist**

Executive Director, World Space Week Association, Slovenia



Maruška Strah is passionate about space and space law ever since she read her first chapter on international space law. Her interest only deepened during her work at the United Nations Office for Outer Space Affairs, where she gained significant insight in the work of both, public and private sector involved with the space industry. Her main area of interest is Space Traffic Management. Her enthusiasm and passion for space will lead her to bringing space closer to people, especially youth and women, working in space and STE(A)M. Maruška is pursuing a PhD in Legal Studies at the Law Faculty of the University of Vienna, where she is focusing her research on Space Traffic Management.

Maruška gained practical experience working for the Permanent Mission to the Organization for Security and Co-operation in Europe of the Republic of Slovenia and the European Union Affairs and International Cooperation Service at the Ministry of Health of the Republic of Slovenia. As a procurator of a medical institute, she has obtained unique experience combining practical approach to health in terms of both, user and provider, and combined them both with the experience she gained during her work with international organizations. In 2014, she founded a company Family Clinic d.o.o., determined to facilitate health services, focused on preventive measures and support of lifestyle changes. She is a trained Peer Mediator and has experience in the field of conflict management. She is an experienced journalist and wrote for the Vienna Review as the Politics Editor during her studies.

Maruška is a member of the International Institute of Space Law, the International Association for the Advancement of Space Safety and the European Center for Space Law. She is also a part of the American Institute of Aeronautics and Astronautics Space Traffic Management Working Group 1, where she is leading the efforts to socialize the outcomes of the working group, and the International Astronautical Federation Space Traffic Management Committee.

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### **Dr. Joel Joseph S. Marciano Jr. -- Panelist**

Director General, Philippine Space Agency (PhilSA), Philippine



Dr. Joel Joseph S. Marciano, Jr. was appointed as the first Director General of the Philippine Space Agency (PhilSA), where he is now leading the buildup and mobilization of the newly created national government agency. He provides executive direction and supervision over the operations of the PhilSA and serves as the Presidential Adviser on Space Matters. He is also a Full Professor of Electrical and Electronics Engineering at the University of the Philippines Diliman (UPD) where he held the Dado and Maria Banatao Professorial Chair.

Dr. Marciano obtained his BS Electrical Engineering from UPD and his PhD in Electrical Engineering and Telecommunications from the University of New South Wales in Australia. He was the UP-Dado Banatao Postdoctoral Fellow at the Berkeley Wireless Research Center (BWRC) in the University of California Berkeley and at the School of Electrical and Computer Engineering at UC San Diego (UCSD) in 2004 and 2005, respectively. In 2007 and 2009, he was a Visiting Associate Research Scientist in UCSD.

His stewardship of the PHL-Microsat and STAMINA4Space programs

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contributed to the timely completion, launch and operation of the microsatellites Diwata-1 and Diwata-2, nanosatellites Maya-1 and Maya-2, and has yielded 10 small satellites in various stages of development from 2014-2020. He also provided leadership and direction in establishing and developing ground station and mission control operations, data archiving and distribution, remote sensing and artificial intelligence processing on geospatial data, academic program development, local small satellite research and testing facilities, and local industry engagement in space technology.

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**Ksenia Moskalenko – Panelist**

CEO and co-founder of Mission Space, Latvia



Studying in two universities at the same time in Boston and Moscow, while being in the U.S. National Gymnastics team, Ksenia used to work in non-profit companies as well as the finance department of P&G Gillette HQ's in Boston. Wanting to implement her own vision and work toward a dream, she then decided to switch gears and pursue leadership of a new space economy startup with a heart in Latvia. Founding Mission Space, in less than a year the company was selected to participate in the top space-tech accelerators across the world, launch their first payload into the stratosphere and receive support from the leading European Institutions.

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## Section 2: Women's participation in space

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### **Dr Jane Olwoch -- Panelist**

Executive Director, Southern African Science Service Centre for Climate Change and Adaptive Land Management, South Africa

Dr Jane Olwoch holds a PhD from the University of Pretoria and an MBA from the Business School, Netherlands among her other qualifications. She is a climate change impact specialist with a background in vector ecology. She is the Executive Director of the Southern Africa Science Service Center for Climate Change and Adaptive Land Management (SASSCAL). She is responsible for providing strategic leadership and senior management expertise in Research, Human Capital Development and the provision of climate services in SADC. This position also entails establishing and maintaining various stakeholder needs in this multicultural environment.



Jane Olwoch has over 15 years' research and training experience at Higher Institutions of learning in the field of Environmental science and climate change. At the University of Pretoria, she was the coordinator of Environmental Science undergraduate degree program and the manager of the postgraduate degree in Environment and Society. She has authored/co-authored over 40 publications in peer review international journals, books and book chapters and supervised to completion over 40 Honors and master's Students and five PhD students. Dr Jane Olwoch is a recipient the of the prestigious TUKS Alumni Award in 2014.

On the National level, she served as a member of the National Committee of Spatial Data, a member of the Scientific Advisory Committee of Southern Africa Science Service Centre for Climate Change and Adaptive Land Management (SASSCAL) and a member of the Advisory Board of the Centre for Geo-Information Science at the University of Pretoria. Internationally, she is a Lead Author of Chapter 11, IPCC Human Health, of working group 2 to IPCC, fifth Assessment Report (2010-2014). From 2014-2017, She was a vice Chair and later the Chair of the Working Group on Capacity Development and Data Democracy of the Committee on Earth Observation Satellites (CEOS). She is serving on the Steering Committee of Future Earth Regional Office for Southern Africa (FEROSA). She is also serving on Independent Steering Committee of CGIR/CCFAC.

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### **Naoko Yamazaki – Panelist**

Former JAXA astronaut, Space Policy Committee member, second Japanese woman in space



©JAXA/NASA

Naoko Yamazaki is an astronaut and space policy expert. She earned a Master of Engineering degree in Aerospace Engineering from the University of Tokyo in 1996, then started working for Japan Aerospace Exploration Agency (JAXA).

In 1999, she was selected as an astronaut candidate, and went on to qualify as a Soyuz-TMA Flight Engineer in 2004 and NASA Mission Specialist in 2006. On April 5, 2010, Yamazaki was aboard Space Shuttle Discovery as part of the crew of STS-131, an assembly and resupply mission to the International Space Station.

Yamazaki retired from JAXA in 2011 and has served as a member of the Japan Space Policy Committee since 2012, a Chairman of "Sorajo (Women in Aerospace)" under the Japan Rocket Society since 2015, and a representative director and co-founder of the Space Port Japan Association since 2018.

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**Dr. Michaela Musilová – Panelist**

Director, HI-SEAS simulated missions, Hawai'i (USA)/Slovakia



Dr. Michaela Musilova is an astrobiologist and the Director of the HI-SEAS analog space research station. Michaela studied and conducted research at the California Institute of Technology, University College London, University of Bristol, Chiba University, International Space University (ISU) and others. She worked for NASA, University of London Observatory, Canada-France-Hawaii Telescope and was the Commander of over 30 simulated missions to the Moon and Mars. She is also a visiting Professor at the Slovak University of Technology, Faculty at ISU and the Head of Research of the satellite technology company NEEDRONIX.

Michaela has received numerous prizes and research grants, including the Emerging Space Leaders Grant from the International Astronautical Federation; Women in Aerospace – Europe Young Professional Award and she was selected as one of the most promising 30 under 30 by Forbes Slovakia.

She is also actively involved in the Duke of Edinburgh's International Award program, as a patron of Slovakia's program and the global program's Emerging Leader Representative. Furthermore, Michaela regularly teaches, gives lectures and keynote presentations, works with international media and is STEM Punks educational program's Advisory Board Member. She also writes articles for Space.com and co-authored her biography, *A Woman from Mars*.

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**Closing remarks**

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**Marcos Pontes – Closing remarks**

Minister Of Science, Technology, Innovation, and Communications, Brazil



Astronaut Marcos Pontes was born in Bauru, São Paulo, on March 11, 1963. He is Lieutenant Colonel Aviator R1 of the Brazilian Air Force and aeronautical engineer, graduated from the Aeronautical Technological Institute (ITA). He holds a Master degree in Systems Engineering by the Naval Postgraduate School, of California, and is a pilot test of fighter jets with more than 2,000 flight hours on 25 aircraft types including F-15 Eagle, F-16 Falcon, F-18 Hornet and Mig-29 Fulcrum.

Member of the 1998 astronaut class of NASA, Marcos Pontes is the only Brazilian to go to space. He is also the first professional astronaut to officially represent a Southern Hemisphere country in space. Pontes held the Centenary Mission in 2006, the result of a partnership between the Brazilian Space Agency and the Russian Space Agency. He was responsible for the maintenance of spacecraft systems and the execution of scientific research projects selected by the Brazilian Academy of Sciences, working 10 days at the International Space Station as a Mission Specialist.

Mr. Pontes has extensive experience as a project manager and program manager, working on relevant international projects in the aerospace industry at companies such as NASA, JAXA, ESA and Boeing. He has 30 years of experience in risk management and operational safety.

With a strong military and academic background, Pontes holds a bachelor's degree in Public Administration and serves also as ambassador of the United Nations Industrial Development Organization (UNIDO), working mainly in sustainable development programs.

Since January 1, 2019, Marcos Pontes is the Minister of State for Science, Technology and Innovation of Brazil.

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## Appendix

- Expo 2020 Dubai, the Women's Pavilion and the World Majlis programme
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### EXPO 2020 DUBAI

Since the first Great Exhibition held in London in 1851, Expos have connected people and provided special spaces to spark dialogue amongst those who are curious about the future.

Running from 1 October 2021 to 31 March 2022, Expo 2020 Dubai will bring the world together to imagine, design and build a more sustainable, dignified and prosperous world. One that is cleaner, safer and healthier. One inspired by collective action around shared challenges, and in which future generations will flourish. Under the theme of "Connecting Minds, Creating the Future" and our three sub-themes of Sustainability, Mobility and Opportunity, Expo will be a platform for positive, collaborative change.

### THE WOMEN'S PAVILION AT EXPO 2020 DUBAI

Our Women's Pavilion, under the exhibition title 'New Perspectives', is a critical component of this vision and will be curated by Expo 2020 Dubai in collaboration with Cartier. In highlighting the positive contributions of women, we will demonstrate that when women thrive, so too does all of humanity.

The UAE has dedicated itself to ensuring that issues related to gender equality and women's empowerment (GEWE) are centrally addressed in everything we do at Expo 2020 Dubai. By shining a light on women past and present, known and unknown, the Women's Pavilion challenges the misconceptions that women still frequently face, seeks out new perspectives on the impact women bring to our world, explores new approaches to creating a more equal world, and identifies ways in which we, together, can create new perspectives, change deep-rooted perceptions, and adjust mindsets.

Through different modes of convening, our goal is to highlight that the only way to peace, prosperity, and sustainability is through the full and equal participation of women.

### WORLD MAJLIS PROGRAMME

Deeply rooted in the traditions of the UAE, the Majlis is one of the cornerstones of Emirati civilisation. In Arabic, "majlis" means 'place of sitting' and refers to both a social gathering space and a formal legislative assembly for government. A place where people meet to hear informed opinions and shape decisions on subjects that matter to the community. The host of the majlis and his guests sit facing one another and engage in respectful but vibrant conversation, with the view of better understanding issues and exploring solutions.

*The majlis has been inscribed in the UNESCO Intangible Cultural Heritage of Humanity. It defines majlis as a "sitting place" where community members gather to discuss local events and issues, exchange news, receive guests, socialise and be entertained."*

The World Majlis aims to be one of the most engaging and thought-provoking dialogues ever held at an Expo. It is a space for ideas and conversations to make important and complex topics relatable to the general public. It brings together diverse points of views across geographies and generations. It invites open and informed exchanges between its participants with the objective to generate new insights and start meaningful connections between people and new ideas.

### WOMEN'S WORLD MAJLIS

The Women's World Majlis is a key programming series at the Women's Pavilion in partnership with the World Majlis. In ten sessions, we will look into ten Expo Thematic Weeks' topics through a gender lens by recognizing and celebrating women's role and positive contributions in advancing sustainable development adapting a free-flowing conversation format.

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