



**World Space
Week** ASSOCIATION

World Space Week Association 2019

Annual Report



World Space Week OCTOBER 4-10, 2019
www.worldspaceweek.org

Semana mundial del espacio 4-10 Octubre

Semaine mondiale de l'espace 4-10 Octobre

Всемирная неделя космоса 4-10 октября

世界空间周 10月4日-10日

الاسبوع العالمي للفضاء 10 - 4 أكتوبر

THE MOON: GATEWAY TO THE STARS

Copyright © 2019 World Space Week Association. All rights reserved.
 Artwork by Carlota Corzo Álvarez.

Major Sponsor


Partners


World Space Week 2019 Theme: The Moon: Gateway to the Stars

Published by World Space Week Association
 957 NASA Parkway, Suite 350
 Houston TX 77058
 United States of America
www.worldspaceweek.org

© 2020 World Space Week Association. All rights reserved.



WORLD SPACE WEEK AT A GLANCE

- **October 4-10 annually;**
- **First held in 2000, after the UNISPACE III UN General Assembly Resolution;**
- **5,422 reported events in 86 countries in 2018;**
- **8,057 reported events in 93 countries in 2019;**
- **Since 2012, annual growth of approximately 30% in number of events;**
- **Organized by World Space Week Association, coordinators in 73 countries, and over 4,000 organizations, schools, and individuals globally.**

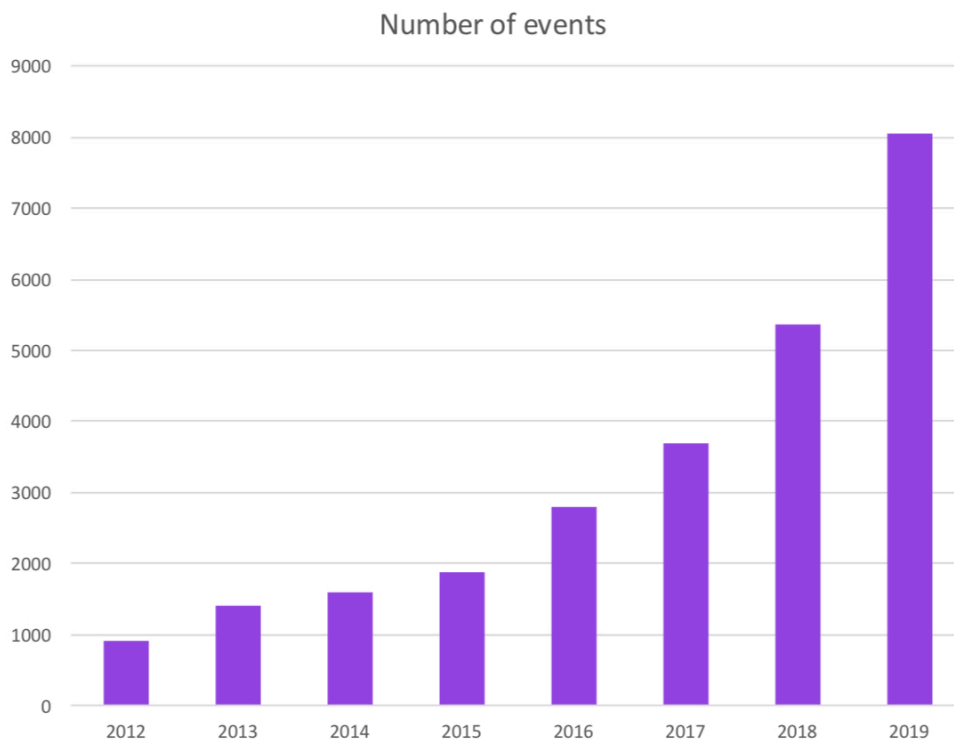


TABLE OF CONTENTS

WORLD SPACE WEEK AT A GLANCE.....	3
TABLE OF CONTENTS	4
FOREWORD.....	5
ABOUT US.....	8
WORLD SPACE WEEK ASSOCIATION ACHIEVEMENTS IN 2019.....	9
ORGANIZATIONAL STRUCTURE OF THE ASSOCIATION	12
WORLD SPACE WEEK INTRODUCTION	13
WORLD SPACE WEEK 2019 STATISTICS	16
WORLD SPACE WEEK 2019 GLOBAL HIGHLIGHTS.....	18
SPOTLIGHT: PAKISTAN.....	20
SPOTLIGHT: 20 TH ANNIVERSARY OF WORLD SPACE WEEK.....	21
2019 THEME: “THE MOON: GATEWAY TO THE STARS”	23
2020 THEME: “THE MOON: GATEWAY TO THE STARS”	25
WSWA LEADERSHIP, OFFICERS AND SUPPORTING TEAM.....	26
WORLD SPACE WEEK ASSOCIATION BOARD OF DIRECTORS 2019.....	27
WORLD SPACE WEEK NATIONAL COORDINATORS.....	28
WORLD SPACE WEEK ASSOCIATION 2019 SPONSORS	30
WORLD SPACE WEEK ASSOCIATION 2019 PARTNERS.....	31



FOREWORD

In 2019 we celebrated the 20th anniversary of the start of the WSW, I am sure that that was a motivation for the National Coordinators and local organizers to make an additional effort to have more events. However, we cannot ignore that it was also the 50th. Anniversary of the historic journey of Apollo 11 to the Moon. This fact probably also contributed to the confluence of wills to increase the sites where WSW activities were held, which shows that the good streak of growth continues.

I am happy to share with you the 2019 figures that indicate that this has been another autumn of resounding success in promoting the celebration of World Space Week with more than 7500 events in nearly 100 countries.

As we know, these numbers would not be possible without the selfless collaboration of the thousands of volunteers who, around the world, find time and resources to carry out activities in remote places on the planet. This celebration has become the biggest party in which the knowledge of the benefits that access to space has brought to humanity is shared. For which we feel very proud.

We still have to define how we can gain knowledge of the possible positive influence that the participation of girls, boys and young people in WSW activities could have in their lives, I invite social science professionals to approach and advise us what we must do to know this possible influence. I am sure that the information we have available, with the right treatment, could support undergraduate and graduate research work.

We are taking the most successful countries that have shown significant growth in events, as an example to share their criteria of success with all of you, so that the increase in events will be due to internal work done in each country in addition to the occasional external factors that provide the big accomplishments of the space activities.

On behalf of the WSWA Board of Directors, I want to take this opportunity to thank each and every one of you who dedicated time and resources to the



celebration of the WSW 2019, for their effort and at the same time congratulate you for another year of resounding success, and invite all of you to be aware of space developments in this 2020, which is a year full of space exploration activities; the first of these, to learn more of the star that warms up the planet, with the Solar Orbiter that will be launched in February. There will also be important milestones for the return to the Moon. And, taking advantage of the proximity of Mars with the Earth, several robotic missions will be sent. Without going any further, the near space and low orbit will be full of missions such as space tourism, Earth observation, satellite flocks for space internet, and possibly the first commercial astronauts will be launched to the International Space Station. All these and more are happenings that will keep the interest of people in Space. For us this is an invaluable opportunity to make our WSW 2020 celebration, with your creativity and support, even greater.

Dr. Francisco Javier Mendieta
Director General, Mexican Space Agency
Chair, World Space Week Association



Dear Colleagues,



I am very pleased to welcome you to this Annual Report of the World Space Week Association (WSWA) Annual Report. 2019 marked two significant anniversaries. Firstly, it was the fiftieth anniversary of the human landing on the Moon and, secondly, it was the twentieth anniversary of the first UN-mandated World Space Week.

Unsurprisingly, then, the 2019 World Space Week theme selected by the WSWA was The Moon: Gateway to the Stars. Around the world, groups and individuals responded enthusiastically to this theme. Perhaps the most common type of event in WSW 2019 was Moon watching. In countries such as Argentina, Bangladesh, Bulgaria, Canada, China, Croatia, Cyprus, Estonia, Finland, Hong Kong, India, Iran and Lebanon, people observed the Moon, some with the naked eye, some with binoculars and many with telescopes. There were many other Moon-themed activities, though, for example, the Moon and interplanetary travel, the role of the Moon in human culture, possibilities for future lunar businesses and even a Moon-theme cooking party.

Overall, the global response was truly outstanding, and our thanks go out to all the space enthusiasts in the many participating countries for the events they organized, and for their energy and enthusiasm for space and about the Moon. In their work, they were supported by WSWA's network and especially the national coordinators in each country. Without them, WSWA would not and could not continue to have the impact that it does in its mission to raise awareness of the many benefits that space activities bring to all of us. Very many thanks to all concerned.

Prof. Christopher Welch
Co - Chair

World Space Week Association



Dear World Space Week Supporters,

2019, the 20th anniversary of World Space Week, was another record-breaking year with XXXX events in XX countries. This massive celebration of space, the biggest ever in history, focused on the Moon, first walked upon by humankind 50 years ago.

We see the beginning of a significant transition in the scale of World Space Week in several countries. In 2019, Saudi Arabia and Pakistan had thousands of events promoted by their national



governments: the Saudi Ministry of Education and Pakistan's SUPARCO. As we congratulate these nations for this great achievement, we encourage other nations to follow their example. By scaling up this event in schools and informal education venues, governments can efficiently use World Space Week to inspire youth in STEM and build their workforce of tomorrow.

2020 will be a very exciting year, as we feature the vast benefits of satellites to humankind. I am thrilled that Steve Collar, CEO of SES, the world's biggest satellite operator, is World Space Week 2020 Honorary Chair. He is encouraging the satellite industry to support World Space Week Association and join this year's celebration. Indeed, satellites are changing our world in so many ways, such as in communications, navigation, and Earth observation. Cubesats have made satellites more affordable and the benefits more accessible. We look forward to working with you in sharing the exciting benefits of satellites with students and the public during the next World Space Week.

Dennis Stone
President
World Space Week Association

Dear supporters and colleagues:



2019 was a special year for World Space Week Association; we celebrated the 20th Anniversary of World Space Week since it was declared by the United Nations General Assembly during UNISPACE III in 1999. The success of the Association would not be possible without your support; we are immensely honored and grateful that you are accompanying us on our journey.

I am extremely happy to see so many young participants in our global events, especially the young women among the most active of all. We are proud to be inclusive of all nationalities, ages and genders, regardless of location, and we will continue to strive to give people a voice and showcase their achievements during World Space Week. It is with great pride that I can say that we, as Association, contribute to greater participation in space related activities.

We give people a voice. For use is crucial that we communicate with all participants of World Space Week that reach out to us. We want to hear from you, because only through communication we can sufficiently report back to UN COPUOS and talk to Member States. I firmly believe that we can work closer together to fully reach our potential to make

World Space Week an established event all around the world.

It is great to see that more countries are participating in the celebration of space. It is my hope for the years to come that countries will follow example of those who are leading in organization of World Space Week – not only with their incredible high numbers of events, but with their dedication to bringing space closer to people.

I am honored to be able to count on the support of our Board of Directors. Space leaders with incredible expertise are an added value to the Association and I appreciate the guidance and support we are shown. I am grateful that World Space Week Association remains supported by so many people and so many institutions.

I am beyond excited about the upcoming year and can say with confidence that it will be our greatest yet. I am honored that we will work together with SES and Mr. Steve Collar, our Honorary Chair for World Space Week 2020. I sincerely hope that you will join us and celebrate World Space Week 2020 under the theme "Satellites Improve Life."

Maruška Strah
Executive Director
World Space Week Association



ABOUT US

World Space Week Association (WSWA) is an international non-government organization and a registered 501(c)(3) non-profit corporation in the United States. It is led by an esteemed Board of Directors comprised of volunteer global space leaders and dignitaries. Implementing the Association's programs are a volunteer executive team, small staff, and supporting volunteers.

The mission of WSWA is to strengthen the link between space and society through public education, participation, and dialogue on the future of space activities, using UN-declared World Space Week, October 4-10 annually, as a focus.

Supported by a global coordination network, WSWA works year-round to encourage the space and education sectors to hold events during WSW. The result is the largest network of space-supporting organizations on Earth which participate in

this annual event. WSWA supports these coordinators and participants with services to help maximize the visibility and impact of World Space Week.

The Association works with educators, space industry, space agencies and other organizations to advocate Science, Technology, Engineering, and Mathematics (STEM) education by inspiring students through WSW. WSWA encourages use of WSW as a platform not only for STEM

education but to involve the public in space programs and to encourage people around the world to express their passions for space.

One of the oldest space advocacy organizations in the world, WSWA has permanent

observer status in the UN Committee on the Peaceful Uses of Outer Space (COPUOS), is a member of the International Astronautical Federation, and is supported by numerous global sponsors and partners.



World Space Week Association:

- Supports the UN in the global coordination of World Space Week;
- Expands World Space Week and its impacts on education and society;
- Is volunteer-managed and funded through voluntary contributions;
- Is a non-profit, non-government organization founded in 1981;
- Takes no positions on space policy to ensure that WSW is open to all.



WORLD SPACE WEEK ASSOCIATION ACHIEVEMENTS IN 2019

World Space Week Association remains committed to achieving Sustainable Development Goals, especially SDG 4 Quality Education, SDG 8 Decent Work and Economic Growth, SDG 9 Industry, Innovation and Infrastructure and SDG 17 Partnerships for the Goals.



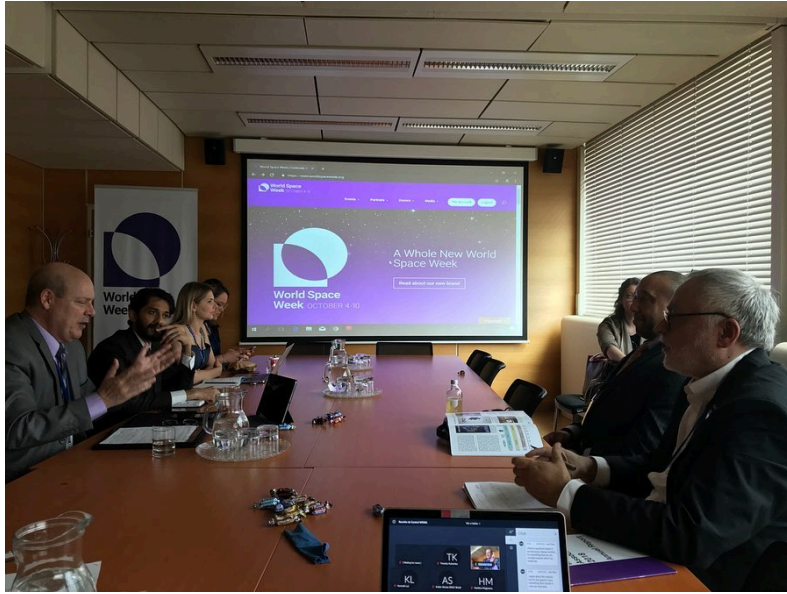
World Space Week Association expanded in 2019 to better support the biggest space event on Earth.

This past year, the Association:

- Appointed Mr. Stevel Collar, SES CEO, as Honorary Chair for 2020;
- Launched a fundraising campaign together with Mr. Collar;
- Amended the Bylaws of the Association to improve governance;
- Elected Directors with significant experience working with the space sector;
- Launched an upgraded Global Calendar;
- Selected 22 new National Coordinators, to lead the celebration of World Space Week in their territories;
- Communicated with leaders of the world's major space agencies;
- Expanded its global partners and renewed partnership commitments;
- Celebrated 20th Anniversary and together with the Secure World Foundation organized a reception during 2019 COPUOS.

This was in addition to producing key products, such as the poster, theme, annual report, newsletters, media releases, and other communications to key stakeholders.





WSWA is grateful for the support of its distinguished Board of Directors. Two Board meetings were held in 2019

- In Vienna, Austria on 15 February during the Scientific and Technical Subcommittee of COPUOS.

- In Washington, D.C. United States of America, on 24 October during the International Astronautical Congress (IAC).

Detailed information and minutes of Board meetings can be found on the following link: <http://www.worldspaceweek.org/organization/meetings/>

In order to encourage participation in World Space Week, representatives of WSWA attended numerous events to give presentations, distribute annual reports and posters, and meet with space organization leaders. Events supported in 2019 included UN COPUOS and its Subcommittees, UN/Austria World Space Forum, in Vienna, Austria, the IAC in Washington D.C., USA, UN/China Forum on Space Solutions in Changsha, China, 6th International Conference on Aerospace Science&Engineering in Islamabad, Pakistan, Space Generation Congress in Washington D.C., USA, Copernicus Hackathon in Barcelona, Spain, and 12th Anniversary of Nepal Astronomical Society in Kathmandu, Nepal.

As with previous years, diverse promotional activities were made addressed to the Education sector:

- Renewed promotional support from the **NASA EXPRESS newsletter**, sent to 40K subscribers through the NASA Office of STEM Engagement's social media tools. Message was shared with 140K @NASASTEM Twitter followers, 77K NASA STEM for Students Facebook followers, and 190K NASA STEM Pinterest followers. Through the use of STEM Engagement social media, content from the EXPRESS viewed by about 450K people.
- From the German Space Agency DLR, the Education/Outreach Coordinator reached numerous school class visits in their DLR_School_Labs and DLR_Space_Show with hundreds of kids in the audience.
- Also shared support from **European Schoolnet** project **Scientix news**, digest and social media.



WSWA values its partnerships with other organisations and strives to strengthen those partnerships by working together. This year, we have formed new partnerships with IAU100, Thor Group (SpaceWatch.Global) and MOVA. In addition, we renewed our partnership agreements with SGAC and the International Observe the Moon Night. On the project side, WSWA collaborated with MVA to hold a survey about the Moon.

World Space Week Association further partnered with The Planetary Society, Celestron, Yuri's Night, and MOVA for the #WhatSpaceMeans challenge on social media.

In 2019, we restarted our Podcast programme. This is a series of podcasts, which is another media channel to engage the public with the latest developments in space exploration. We plan to do this by connecting with world leaders of thought, who make the difference in their environment. Our guests are the inspiration from where our listeners can perhaps find theirs. We plug into the collective wisdom of these leaders to understand how to navigate towards a future as a spacefaring civilisation. Our goal for the podcast series is to show that everyone can participate in space activities.



We produced 3 podcasts in 2019, interviewing Dr Robert Jedicke, astronomer specialised in Solar System Bodies and science communicator, Maruška Strah, Executive Director of the World Space Week Association and Dr Seth Shostak, former director of the SETI institute and space science communicator. The podcasts are uploaded on the Soundcloud and we aim to use other platforms as well. We amounted a total of 300 plays.

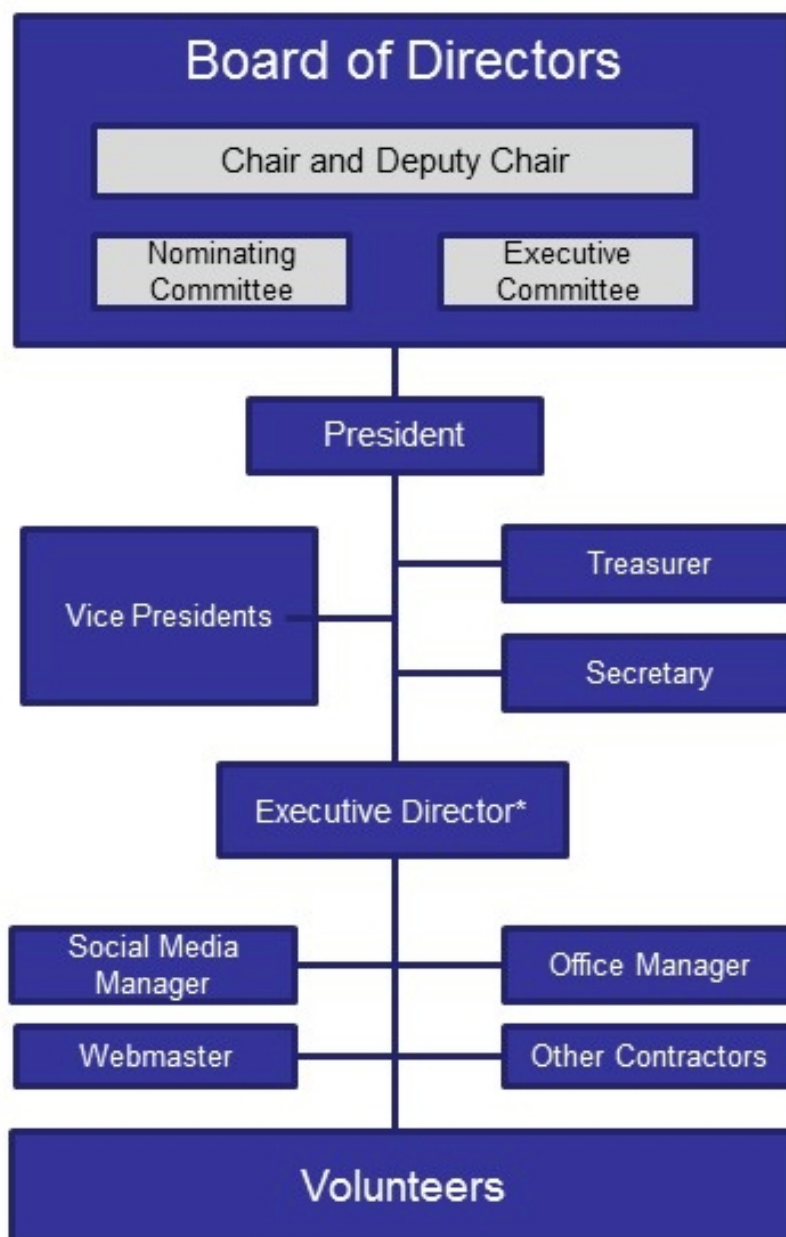
The goals that WSWA social media set were to engage more people in sharing their own space stories, to increase interest in space and to show a clearer picture of what World Space Week Association is. In the week of World Space Week, we counted 14 million impressions on twitter and reached 35,300 people over facebook with 3,578 views of World Space Week page. Daily, our 24h long posts were seen from 400 up to 1000 people. From that, it was evident that many people and event organizers were engaging and sharing their events with our official hashtags #wsw2019 and #worldspaceweek.



ORGANIZATIONAL STRUCTURE OF THE ASSOCIATION

World Space Week Association is led by a volunteer Board of Directors. The Board has two committees: the Executive Committee, which supervises the Executive Director and develops the operational plans of the Association, and the Nominating Committee which proposes directors and officers. The officers of the Association, elected by the Board, include a President, several Vice Presidents, Secretary, and Treasurer. All serve as volunteers. The Executive Director serves as the chief operating officer of the Association.

In 2019, World Space Week Association started the process of restructuring of its governance, which will be completed in 2020.



* The Executive Director reports to the Executive Committee or the President in its stead.



WORLD SPACE WEEK INTRODUCTION

What is World Space Week?

- Largest annual space event on Earth, with over 8,000 events in 86 countries in 2019
- Growing rapidly in size and impact
- Synchronized space education and outreach events organized by companies, space agencies, schools, planetaria and museums, astronomy, space, and other clubs and societies, and individuals

When is World Space Week?

- World Space Week is October 4-10 annually
- It was declared by the United Nations General Assembly in 1999



What are the benefits of World Space Week?

Synchronization of events provides leverage in space education and outreach in order to:



Build the workforce of tomorrow by inspiring students;

Educate the public about the benefits of space;

Promote organizations which are involved in space;

Visibly demonstrate public support for space activities.



How to become involved?

- As a **donor**. We are always looking for organizations and individuals willing to support our cause. Please visit <http://www.worldspaceweek.org/donors/become-donor/>
- As a **partner**. We are looking for organizations, which share our vision and goals. See <http://www.worldspaceweek.org/partners/partner-us/>
- As a **global volunteer**. We are always looking for individuals with specific skills, willing to devote some of their valuable time to World Space Week. See <http://www.worldspaceweek.org/working-with-us/vacancies/>
- As a **national coordinator**. We are present in about half of the world's countries, but not in all of them yet. We also seek local coordinators to promote World Space Week in your region or city. See <http://www.worldspaceweek.org/working-with-us/coordinator-duties/>
- As an **event organizer**. We seek event organizers. To get involved and if you need further information or help, get in touch with your Local or National Coordinator. See <http://www.worldspaceweek.org/events/how-to/>

How to organize an event?

There are no limits to what can be done to celebrate space or use space to inspire education during WSW. Audiences can be the public, students, employees, or other targeted communities. Participating organizations get leverage by being part of the largest space event in the world. On the World Space Week website there are many examples of what can be done and has been done in the past. More ideas are available here: <http://www.worldspaceweek.org/events/event-ideas/>

The main criteria for a World Space Week event:

- It must be space related;
- It must begin or end during World Space Week October 4-10;
- One audience counts as one event. For example, a school doing activities on five days counts as one event.



See all criteria and guidelines here: <http://www.worldspaceweek.org/guidelines-on-wswa-events-policy/>



Event Calendar

The main way for World Space Week Association to coordinate the global celebration of WSW is via an online calendar. Event holders are responsible for entering their event(s) on the calendar. This calendar also credits participants and provides global transparency to the biggest space celebration on Earth. The WSWA team keeps track of the recorded events by maintaining the calendar and making sure the events adhere to the guidelines for event organization.

In order to achieve the highest accuracy of events and the highest level of visibility for event organizers, entering events details into the calendar before the start of World Space Week is highly recommended. By doing so, event organizers obtain significantly more reach among the public, and the event itself will have more impact.



In 2019, we upgraded the calendar, which included new features. Each person who enters events first establishes a user account. They can then sign in to create or modify their events. Other new features will include:

- Date checking (events must start or end the first half of October);
- Duplicate location checking;
- Improved event browsing.

WORLD SPACE WEEK 2019 STATISTICS

During World Space Week 2019, a total of 8,057 events in 93 countries were reported by thousands of organizers. The top list of countries with the most reported events in 2019 was dominated by the Kingdom of Saudi Arabia, which reported record 4,044 events. Events in Saudi Arabia are strongly supported by the Ministry of Education, proving the value of World Space Week in schools, especially with support by national institutions.



Pakistan, Ireland and Mexico significantly increased their number of reported events in comparison with 2018.



A significant number of events were held in Iran, a newcomer on the list of countries with the most organized events.

WSWA is maintaining strict guidelines for event recognition in order to maintain transparency and credibility of the overall WSW celebration for all event organizers. Consequently, we removed almost 500 events that were not compliant with the guidelines or were duplicated in the calendar.

RANK	COUNTRY	NUMBER OF EVENTS IN 2019
1	Saudi Arabia	4,044
2	Pakistan	1,458
3	Ireland	436
4	Iran	368
5	Mexico	287
6	Romania	108
7	US	75
8	Spain	71
9	Japan	66
10	Croatia	66

We note that underreporting of events still presents a challenge for the future work of the Association and we are preparing new tools with which we can further improve data collection. In order to achieve these goals, we have updated our list of National Coordinators and we are working closely with them to capture the most realistic number of events.

There are no countries from the African Region on the top ten list for 2019, showing the need for improvement in this region and further stresses the importance of sufficient reporting of events held during World Space

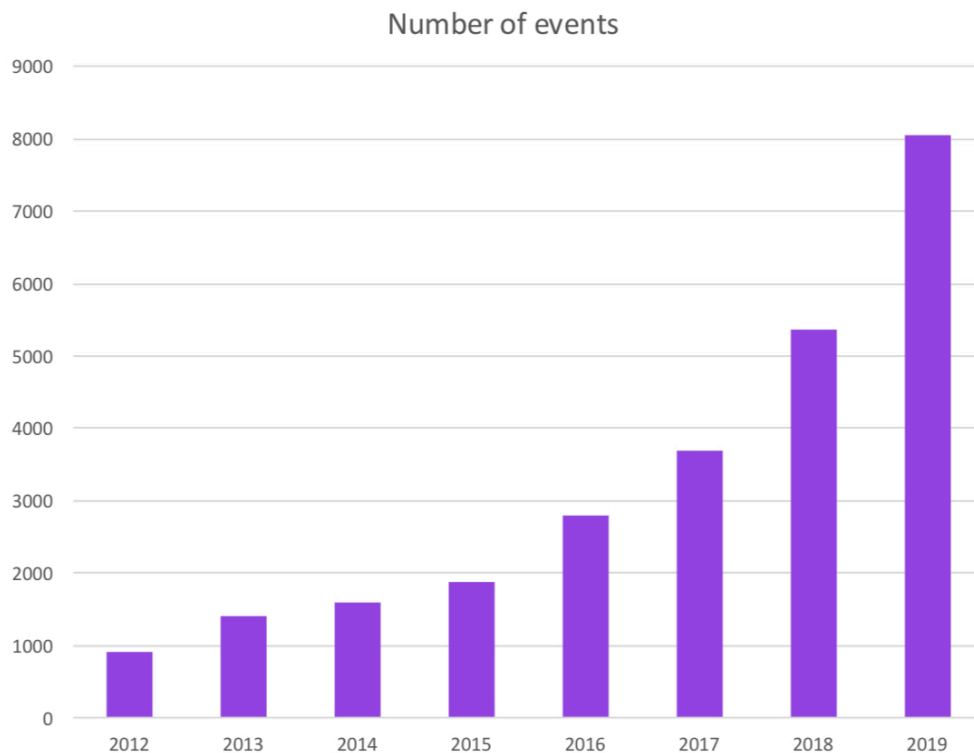


Week. We have indications that several events took place all around the region, but remained unreported.



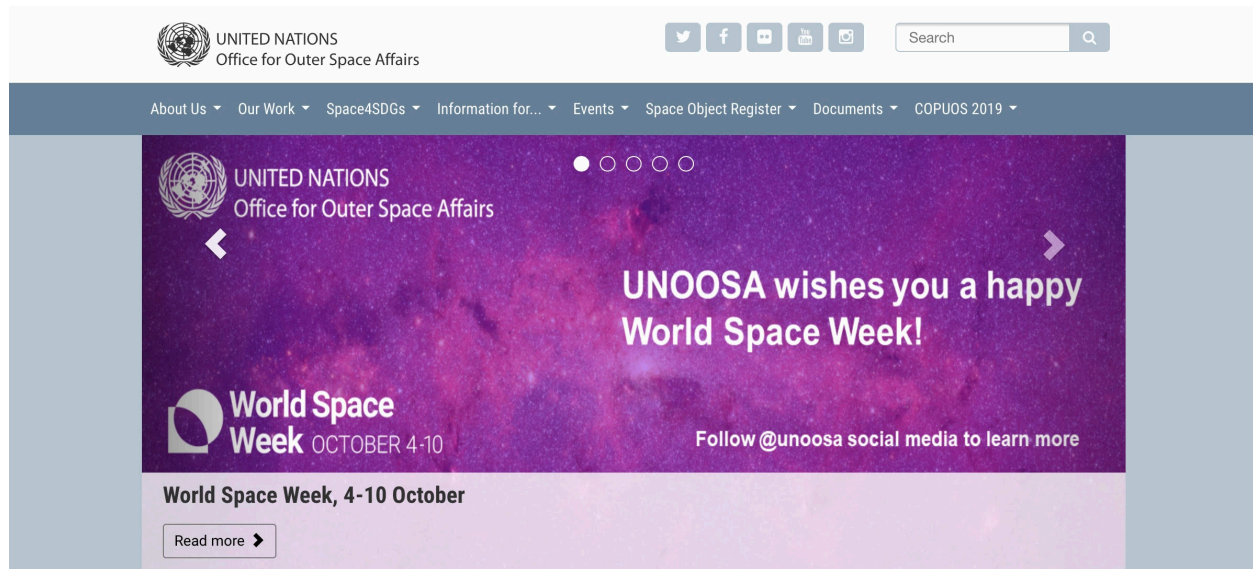
Many countries are reporting an increase in the number of events, for which we congratulate them. We do, however, note that the Kingdom of Saudi Arabia and Pakistan are leaders in organization of events and can serve as an example for national institutions how to establish World Space Week as a regular part of school curricula.

Global trends show continuous and growing support for World Space Week, with more countries participating every year. Growing number of events in countries where National Coordinators report strong support by their governments and national institutions show the importance of official support.



WORLD SPACE WEEK 2019 GLOBAL HIGHLIGHTS

World Space Week witnessed a record number of events across the world in 2019. WSW coordinators, volunteers, supporters, sponsors and participants organized more than 8000 events in over 90 countries. It encompassed an incredible diversity of events celebrating the theme of “The Moon: Gateway to the Stars”. The Highlights section showcases some of the creative, innovative and popular events that brought people together to celebrate space.



- Cruise liner Cunard conducted its annual Transatlantic Space Week aboard its flagship Queen Mary 2, as it voyaged from **Southampton to New York** from Sep 26 to Oct 4, 2019. The journey featured a variety of space-themed experiences, including talks from distinguished space explorers and astronomers.
- UNOOSA celebrated #WSW2019 by offering a special dish inspired by the astronaut menu on the International Space Station every day at UN **Vienna**.
- RS&H Engineering in the **United States** featured profiles of some of its projects that will help serve NASA on the next frontier, from modifying the Vehicle Assembly Building to designing asteroid curation labs.
- ESA hosted its Open Day on October 06 at ESTEC in Noordwijk, the **Netherlands**. With the theme of 'ESA to the Moon', guests included 2 Apollo astronauts and an ESA astronaut.
- This year, World Space Week aligned with International Observe the Moon Night, an international celebration of lunar and planetary science, celestial observation, and the cultural and personal connections we have with our Moon.
- In **Mexico**, the National opening ceremony for World Space Week was held at the H. Escuela Naval Militar in Veracruz state, on October 04. It was attended by the State Governor, WSWA Board Chairman Dr. Javier Mendieta, Navy officers and others.

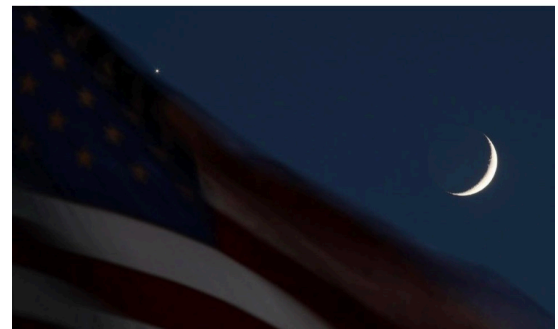


- SPACE Chennai in **India** conducted a series of public lunar telescopic observations for different groups – underprivileged kids, old age homes, women shelters, rural schools.
- To celebrate WSW, Samsung launched a handful of new space themed wallpapers for the Galaxy Note 10 and Galaxy S10 series.
- StarTalk Radio celebrated World Space Week with Neil deGrasse Tyson, Matt Kirshen, and Charles Liu answering fan-submitted Cosmic Queries.
- In **Chile**, Diego Portales School in collaboration with Chilean Air Force hosted the closing ceremony of World Space Week 2019.
- Space Resources Week was held in **Luxembourg** from 7-11 Oct, including a professional course, workshops, talks, documentary screening.
- Space Science Days by the Russian Academy of Sciences and Roscosmos State Corporation hosted “Road to Space. First all-Russian Space Education Conference” in **Russia**.

Forbes

When To See A Crescent Moon Cradle Jupiter And Saturn As Lunar-Themed ‘World Space Week’ Begins

By Jamie Carter, Contributor
3 October 2019 at 07:10 · 4-min read



SPOTLIGHT: PAKISTAN

It remains an incontrovertible fact that humankind is blessed with the intelligence and potential to ensure not only its survival but also push limits of possibility. It is the curiosity to find our place and place in the universe and the thirst for knowledge that transforms our evolution from primitive beings into explorers, pioneers and voyagers. With this aim in sight, World Space Week celebrations were first organized across Pakistan in 2005.

Over the years, our efforts have not only yielded quantifiable results but are also recognized, time and again by World Space Week Association (WSWA). Starting from only four cities of Pakistan, today we are among the countries having highest number of events at world space week (WSW) celebrations. Pakistan was also recognized for organizing highest number of activities during world space week 2015, second highest number of events among all participating countries in 2016 and highest number of media impressions in 2010.

This year we redesigned WSW activities and introduced a dedicated web portal to enhance the outreach and increase participation from across Pakistan. Calls for participation in WSW activities spearheaded by SUPARCO were made in leading newspapers of the country and schools were invited to take part in the event as a national competition. Schools organizing highest number of space related activities and competitions for their students, pertinent to the theme of WSW 19 were recognized as the “Best Space Science School” of the country. Notable efforts were recognized as “Best Space Awareness Initiative” and “Best Space Enthusiasts”.



The results surpassed our expectations. The idea of WSW activities as a national competition among schools and educational institutes went viral and was received very enthusiastically by the academia and students. Schools from the remotest corners and farthest terrains

registered on the web portal and organized WSW events for their students. Reports were submitted on the website along with pictures and videos. In total, schools across Pakistan reported over 1600 WSW events with thousands of participants reassuring the fact that this has become the most celebrated and anticipated science fair in the country.

We anticipate that results will again exceed beyond our expectations next year as we set sail for farther horizons. May success greet us on our journey!

Major General Amer Nadeem, HI (M), Chairman of SUPARCO



SPOTLIGHT: 20TH ANNIVERSARY OF WORLD SPACE WEEK

The year 2019 marked the 20th anniversary of World Space Week. This international week observed by the United Nations was established pursuant to paragraph 7 of UN General Assembly Resolution 54/68 on the Third United Nations Conference on the Exploration and Peaceful Uses of Outer Space, adopted on 6 December 1999, which declared the week 4-10 October each year as World Space Week. This is an annual global celebration of the contributions of space science and technology to the betterment of the human condition.

The dates framing World Space Week, 4-10 October, recall two very significant dates in the history of space exploration, one technical and the other regulatory. The 4th of October 1957 was the date of the launch Sputnik I, which marked the beginning of the Space Age and opened the way for space exploration. The 10th of October 1967 was the date of the entry into force of the Treaty on Principles Governing the Activities of States in the Exploration and Peaceful Uses of Outer Space, including the Moon and Other Celestial Bodies, which has served as the cornerstone of international space law for the past 52 years.

In UN COPUOS we often speak of the importance of raising public awareness of the importance of space science and technology. This is precisely the mission of the WSWA. This organization had its origins in the United States in 1980 as the Space Week Association, and in 1999 it offered to the UN to serve as global coordinator of World Space Week, and helped organize the first such celebration in 2000. It has been coordinating WSW ever since.

World Space Week is now the largest annual distributed space awareness event on Earth. In 2019 there were more than 8,000 events in over 90 countries that celebrated the theme “The Moon: Gateway to the Stars.”

In implementing its activities, WSWA relies on the volunteer efforts of many coordinators and event organizers distributed around the world. Over the years, these volunteers have inspired countless numbers of young people to imagine careers in space, and indeed many people who are now space professionals can trace back their interest in space to participation in a WSW



event. WSW has also acted as a platform to raise space awareness among decision-makers and has been an early stepping stone for countries entering the space arena.



We congratulate the World Space Week Association on coordinating the world-wide implementation of para. 7 of UN Resolution 54/68 that gave rise to World Space Week for the past 20 years and wish them all the best for the next 20 years.

Peter Martinez, Executive Director, Secure World Foundation



2019 THEME: "THE MOON: GATEWAY TO THE STARS"



In 2019, the world celebrated the 50th anniversary of the first human moon landing of July 20, 1969. This historic event kept people glued to their black-and-white TV-screens all over the world, and marked the start of a new era for humanity. For the first time in our 200,000-year existence, we were not solely bound to Earth anymore.

The last person to set foot on our faithful satellite did so in 1972. But instead of sending humans to other heavenly bodies, space agencies then favored robotic missions across our solar system, deep space research with space telescopes, and crewed missions in low Earth orbit (LEO) with projects such as the Space Shuttle

program, Mir, the Chinese Space Station and the International Space Station.



Interest in crewed exploration outside LEO has gained tremendous momentum during the past decade again. Driven by the enthusiasm ambitious entrepreneurs, people all over the world and from all generations dream of exploring the vastness of space themselves. Several private companies have joined the race to build humankind's first settlement outside Earth. Potential economic and social benefits are obvious incentives to understand why the space race is back. At the same time, it becomes very clear why it is crucial to understand and to protect our environment.

While Mars presents the ultimate goal, many acknowledge that the Moon will play a vital role in our efforts to discover the rest of our solar system. It's a stop on our way to the red planet, a place for unique scientific research to understand the history of our planet, a source of material for necessary equipment and fuel for our endeavors throughout the Solar system...



World Space Week Association's excitement for the lunar theme is strongly inspired by the presence of Apollo 11 crew member Buzz Aldrin on the Board of Directors and by the signing of a memorandum of understanding with the Moon Village Association (MVA) at IAC 2018 in Bremen. In cooperation with MVA, we will seek global public input on the Moon

in 2019. World Space Week Association's Board of Directors decided to devote the WSW 2019 theme to our nearest space neighbor to celebrate the incredible achievement of landing on the Moon and to spark consideration of the value of the Moon in humankind's future space endeavors.



2020 THEME: "THE MOON: GATEWAY TO THE STARS"

You wake up in the morning and check the weather forecast. Your neighbors use their phone to navigate to work. The news reports forest fires and shows an overview of the impacted areas. A fishing boat in distress in the middle of the ocean sends an emergency call for rescue. In the evening, you watch your favorite sports team play halfway around the world, with a delay of a mere few seconds.

We all consider such actions and events normal these days, but let's go back in time for a moment. More specifically to October 4th, 1957. The day the Soviet Space Agency launched Sputnik. For the first time in the history of humanity, a human-made object orbited our planet. Sputnik was far from impressive for today's standards, weighing only 83 kilos, measuring 58 centimeters across, and carrying nothing but a simple radio transmitter. After a 21-day mission and a total of 1440 orbits, orbital mechanics caused the inevitable atmospheric burn. Humanity had entered the era of space exploration, and was determined not to look back.

It has become hard to imagine a world in which satellites do not exist. Since Sputnik, about 9000 satellites have been launched by about 40 different countries, serving a wide range of applications such as military, scientific, weather forecasting, communications, Earth imaging, climate monitoring, or land usage. Satellites helped shape the world, the economy, and the society as we know today. It is safe to say that we owe a big part of our prosperity and (technological) progress to satellites and their applications.

The next decade will announce a new era in space exploration. Private companies, driven by ambitious entrepreneurs, make plans to deploy whole constellations of satellites. Humankind sets to permanently settle on places such as the Moon and Mars, where things like communications and weather prediction will become crucial to survival. On a smaller scale, it is becoming easier and more affordable for organisations such as schools and universities to launch cubesats and cansats for educational and research purposes.

In 2020, World Space Week celebrates these 63 years of satellite history, and will look forward to a bright future where these spacecraft will serve people all around the world and possibly those in the first settlements across our Solar System. World Space Week Association's Board of Directors decided to devote the WSW 2019 theme to our nearest space neighbor to celebrate the incredible achievement of landing on the Moon and to spark consideration of the value of the Moon in humankind's future space endeavors.



WSWA LEADERSHIP, OFFICERS AND SUPPORTING TEAM



Dr. Francisco Javier Mendieta
Chair



Prof. Christopher Welch
Co - Chair



Dennis Stone
President



Maruška Strah
Executive Director

OFFICERS

Executive Vice President:
Ben Baseley-Walker
Senior Vice President:
Michel Laffaiteur
Senior Vice President:
Ali Al-Mashat
Vice President Board Relations and Secretary:
Catherine Doldirina
Vice President Development:
Mariam Naseem
Vice President Partners and Programs:
Alex Karl
Vice President Education and Coordination:
Armengol Torres
Vice President Administration:
Marcia Gilbert
Treasurer:
Buckner Hightower

SUPPORTING TEAM

Office Manager:
Marcia Gilbert
Accounting Firm:
Baker Crane LLP
Social Media:
Tinkara Strah
Webmaster:
Rohit Kumar
Highlights Editor:
Ramasamy Venugopal
Newsletter Editor and Media Relations:
Jeroen Toelen
Podcast:
Haritina Mogosanu



WORLD SPACE WEEK ASSOCIATION BOARD OF DIRECTORS 2019

Dr. Francisco Javier Mendieta
Chair

Prof. Christopher Welch
Co - Chair

George Abbey, Sr.

Zhang Yao

Ade Abiodun

Michel Laffaiteur

Timiebi Aganaba

Jean-Yves LeGall

Buzz Aldrin

Agnieszka Lukaszczyk

Oleg Alifanov

Victoria Maiorova

Ali Al-Mashat

Amer Nadeem

Sergio Camacho

Bill Nye

Sarah Cruddas

Misuzu Onuki

Jean Baptiste Desbois

Marius-Ioan Piso

Kerrie Dougherty

Dumitru-Dorin Prunariu

Arthur M. Dula

F. R. Sarker

Iñaky Garcia-Brotons

Kaori Sasaki

Li Guoping

Courtney Stadd

Tom Hanks

Randy Sweet

Candice Johnson

Fruzsina Tari

Lisa LaBonté

Bijal Bee Thakore



WORLD SPACE WEEK NATIONAL COORDINATORS

National Coordinators are an integral part of the World Space Week Association and play a crucial role in promotion and execution of the events all around the world. NCs play an especially important role when documenting all the events that occurred during the World Space Week in their country each year.

New guidelines, rules, and a plan starting 2019 were defined to improve NCs involvement and support to local event organizers and rising quality and performance of task coordination. As a result, an important renewal of NCs was made going from 106 National and Local Coordinators in 2018 to 73 currently active now, being 22 new. Despite the small drop, the 2019 results show how well-engaged volunteers can lend to new world records!

As a supporting and engagement tool, a WSW National Coordinators private Group on Facebook has been managed during the year. Currently 72 active members share ideas, highlights, news and advice between NCs and with the supporting team.

The NC role results attractive to Space lovers and supporters especially in countries and regions where this industry and their applications to society are still not well known. In addition, being WSW NC returns back many rewards in terms of professional visibility, local recognition, and



many professional and educational qualified contacts. NC's tasks do not necessarily involve organizing events, their role is to use their own contacts and media to reach many volunteers who are able to locally organize activities and to get the necessary resources to reach audiences. NCs help in explaining WSW guidelines, providing advice to organizers and to link with the WSW Association.

We value significant insights NCs have in the industry in their own countries and we are grateful for their commitment to World Space Week. In 2019, we recognized Mr. F. R. Sarker of Bangladesh for his dedication to World Space Week since its first celebration in Bangladesh in 2003.

Want to be part of World Space Week volunteering as NC? If your country is not listed, please contact us for applying.



Algeria	Hichem Guergouri	Malta	Stephanie Maggi-Pulis
Angola	Zolana Joao	Mexico	Mario Arreola-Santander
Argentina	Jorge Coghlan	Montenegro	Marina Andrijevi
Azerbaijan	Famil Mustafa	Morocco	Zakaria Belhaj
Bangladesh	F.R. Sarker	Nepal	Manisha Dwa Ramon
Belarus	Alexei Belotserkovsky	Netherlands	Rahangmetan
Belgium	Aleksandr Stommels	New Zealand	Haritina Mogosanu
Bhutan	Yeshey Choden	Nicaragua	Emilio Zuniga
Bolivia	Rodolfo Zalles	Nigeria	G. I. Agbaje
Bosnia and Herzegovina	Amna Dervišagić	Pakistan	Atif Ali
Brazil	Valmir M. de Moraes	Palestine	Dawoud Tarawa
Bulgaria	Veselka Radeva	Paraguay	Alejandro Román
Cameroon	Tomukum Chia	Philippines	Rogel Mari D. Sese
Canada	Kenneth Lui	Poland	Adam Ustynowicz
Chile	Franco Orellana	Romania	Marius-loan Piso
China	Zhang Yao	Saudi Arabia	Mohammed Saeed Barziq
Cote D'Ivoire	Alexandre Koffi	Serbia	Zoran Tomic
Croatia	Danko Kocis	South Africa	Fikiswa Majola
Cyprus	George Troullias	South Korea, Republic of	KangSan Kim
Ecuador	Roberto Vallejo	Spain	Antoni Paz
Egypt	Amr Hassan	Sri Lanka	D.D.G.L.
Estonia	Karin Pai	Sudan	Dahanayaka
Ethiopia	Biniyam Kebede	Syrian Arab Republic	Moutaman Mirghani
France	J.B. JB Desbois	Tajikistan	Muhammed Alassiry
Ghana	Reagan Masud	Thailand	Saidbeg Kalandarov
Greece	Zoulis Manolis	Turkey	Wares Chancharoen
Guatemala	Vinicio Montoya	UAE	Ksenia Synkova
Hungary	Laszlo Bacsardi	Uganda	Maitha Al Romaithi
India	Sachin Bahmba	Ukraine	William Asimwe
Iran	Saeed Jafari	United Kingdom	Victoria Chetvertak
Iraq	Eyad Khailany	United States	Victoria Southgate
Ireland	Claire McSweeney	Uruguay	Allegra Searle-LeBel
Italy	Tommaso Marino	Venezuela	Fernando Gimenez
Japan	Taichi Yamazaki	Zimbabwe	Jose Godinho
Kazakhstan	Nazifa Baktybayeva		Timothy K Udzanayi
Kenya	Peter Njuguna		Kuhamba
Kuwait	Lama Aloraiman		
Lebanon	Cyrine Nehme		
Lithuania	Linas Smigelskas		
Macedonia	Marina Tanevska		



WORLD SPACE WEEK ASSOCIATION 2019 SPONSORS

Galaxy Sponsors



Stellar Sponsors



Planetary Sponsors

AIRBUS

Satellite Sponsors



WORLD SPACE WEEK ASSOCIATION 2019 PARTNERS





World Space
Week OCTOBER 4-10