

WORLD SPACE WEEK

2015 REPORT



World Space WeekSM
October 4 - 10



The biggest space event on Earth

www.worldspaceweek.org

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TABLE OF CONTENTS

FOREWORD.....	4
WORLD SPACE WEEK INTRODUCTION	5
EXECUTIVE DIRECTOR AND OPERATIONS MANAGER.....	6
SPECIAL REPORT FROM CHINA	8
EVENTS STATISTICS.....	9
WORLD SPACE WEEK 2016	11
ORGANIZE AN EVENT.....	12
LEADERSHIP	12
WORLD SPACE WEEK ASSOCIATION SPONSORS	15
WORLD SPACE WEEK ASSOCIATION PARTNERS.....	16
WORLD SPACE WEEK NATIONAL COORDINATORS.....	17



FOREWORD

Dear Supporters and Colleagues,

This year's World Space Week saw the largest number of events to date and hundreds of thousands of attendees worldwide. With almost 1,900 World Space Week events in 73 nations, the creativity and scale of participation were an incredible feat. Each year we see new and more imaginative ways to celebrate and build on the excitement from the past year's events. Meanwhile, we see other events that a well-established and effective means to stimulate interest in space sciences.

Around the globe individuals and organizations put on events that were both entertaining and educational. Through World Space Week many educators used STEM (Science, Technology, Engineering, and Mathematics) to ignite the imagination of students. By inspiring students with creative World Space Week events, these educators building the foundations of our future for the next generation of space professionals. This is an incredible investment in our future as an ecosystem, as a society and as a world.

With so many nations, traditions and cultures partaking, the variety of events was as diverse as the populations participating. The photos available in this annual report and online demonstrates how space also celebrates our diversity and ability to work together. This theme also shows how many cultures and nations can collaborate internationally on World Space Week events and on space projects successfully.

World Space Week continues to grow at a robust pace, building on the 2015 momentum towards an already exciting 2016.

We look forward to your continued celebration of World Space Week 2016!



Max Grimard, Chairman

World Space Week Association



WORLD SPACE WEEK INTRODUCTION

"The General Assembly declares 4 to 10 October World Space Week (WSW) to celebrate each year at the international level the contributions of space science and technology to the betterment of the human condition"

UN General Assembly Resolution, 6 December 1999

World Space Week has grown into **the largest public space event on Earth**. Each year humankind celebrates the benefits of space and the excitement about space exploration. Participation has seen giant leaps, more than doubling over the last three years.

Why World Space Week?

Synchronizing many events within one week, instead of throughout the year, provides the space community with needed leverage to raise public awareness, grow media attention and inspire youth.

World Space Week Reach

During WSW 2015, nearly 1,900 events organized by over of 800 organizations.

2015 Theme and Poster

World Space Week 2015 Theme – “Discovery”

“Discovery” is an outward looking theme, celebrating deep space exploration. It means to highlight missions like ESA Gaia, Kepler, Herschel, Hubble, etc. and emphasizes discoveries of new galaxies, exoplanets, asteroids and comets. We are convinced that this exciting theme helped to inspire event organizers to set up wonderful events at schools, universities, science centers, planetaria, astronomy clubs, museums and companies, making World Space Week bigger than ever!

World Space Week Association

World Space Week Association (WSWA) stimulates participation in the celebration of the United Nations-declared World Space Week (WSW), October 4-10 annually. As an association of volunteers, WSWA works to encourage global participants to hold events during WSW.

The Association works closely with educators, space industry, space agencies and other organizations to advocate Science, Technology, Engineering, and Mathematics (STEM) education to build the workforce of the future by inspiring students through WSW.

WSWA is an international non-government organization (NGO) supporting WSW National Coordinators in 80 nations and is a registered 501 (c)(3) (not for profit) organization in the United States. It is led by an esteemed Board of Directors comprised of global space leaders and other dignitaries.

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 has numerous global partners.

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 World Space Week as a focus.



EXECUTIVE DIRECTOR AND OPERATIONS MANAGER

Dear Partners, Supporters, Participants and Friends,

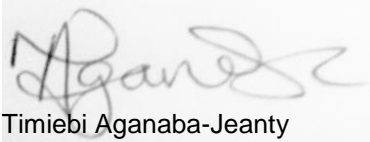
Already the largest public space event on Earth, UN-declared World Space Week (WSW) continued its growth in 2015. WSW celebrated its 16th year with the theme "Discovery" and saw nearly 1,900 events. Over 800 schools, organizations, planetaria, museums and individuals organized events where hundreds of thousands of people attended.

To further grow WSW and to reach an ever-increasing audience, the Association underwent an executive realignment after WSW 2015. Ms. Timiebi Aganaba-Jeanty was appointed Executive Director and Mr. Goran Nikolasevic was appointed Operations Manager. We are excited to be working toward making the world's largest annual space celebration even larger.

We are grateful to our ongoing sponsors and partners who have given us the opportunity to help build the workforce of tomorrow, increase awareness about space activities and encourage education. We also welcome our sponsors to the World Space Week Association family, such as Lockheed Martin, Lunar Mission One and others. Their generous donations were a key to World Space Week's growth last year.

We are most thankful for the many event organizers and volunteers around the world that work tirelessly to make WSW such a success each year. Thank you all for your continued support to ignite the imaginations of so many with your creative and compelling events.

As we look ahead to 2016, we are both excited about the upcoming prospects for growing the organization and building on our current momentum for even more events. The 2016 Theme, "Remote Sensing: Enabling Our Future", has already caught the imagination of many and we look forward to seeing the creative and truly inspiring ways the world will celebrate World Space Week 2016!



Timiebi Aganaba-Jeanty

Executive Director



Goran Nikolasevic

Operations Manager



GLOBAL HIGHLIGHTS

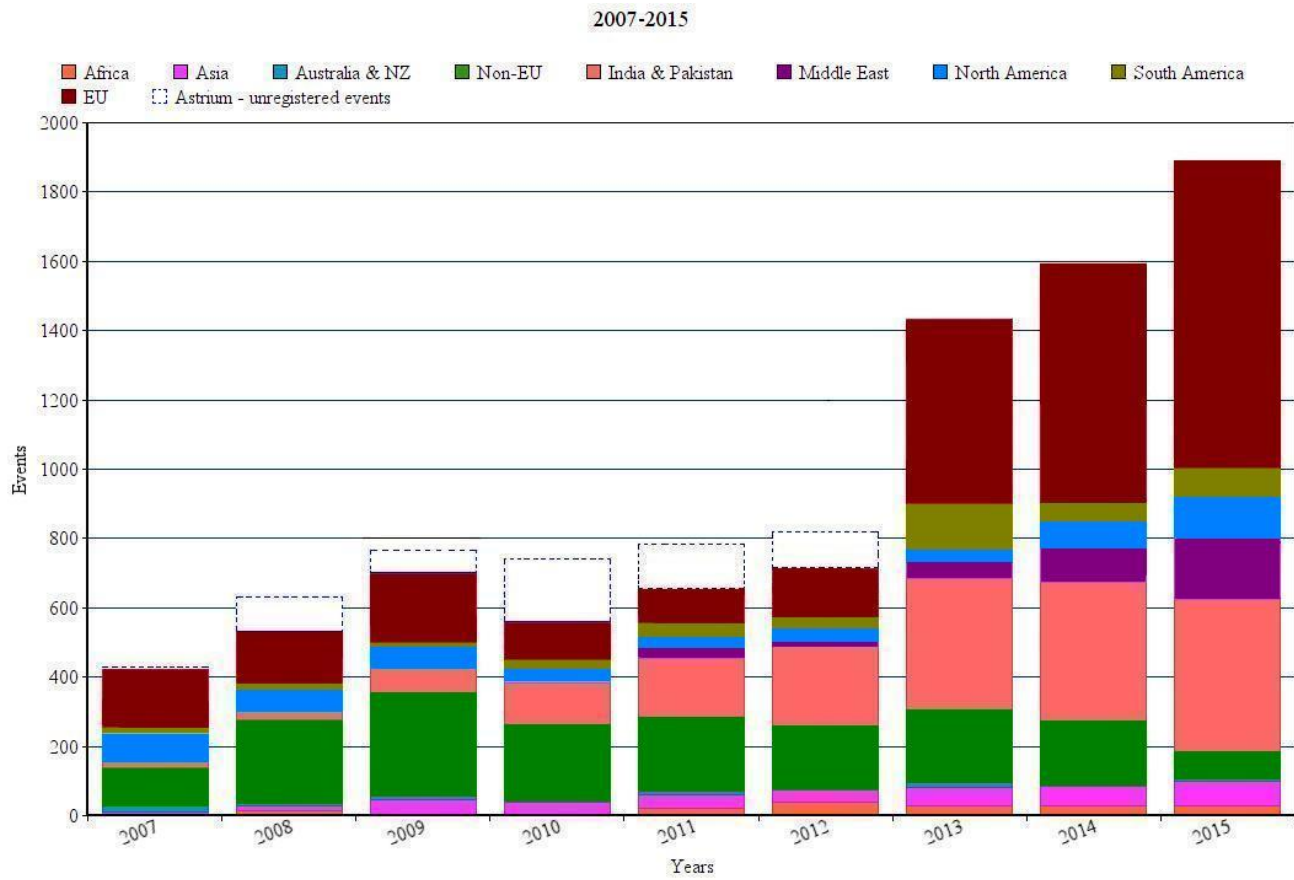
- **Pakistan** held an amazing 300 events throughout the week that were an inspiration for both teachers and students across the country. They used space, during World Space Week, to inspire children about science, technology, engineering, math, and other subjects.
- **The film “The Martian”** opened in over 60 nations during the WSW period. World Space Week Association worked with 20th Century Fox to create special screenings and educational outreach across the globe via the WSW National Coordinators.
- **ESTEC’s 2015 Open Day** took place on 4 October to mark the 58th anniversary of the launch of Sputnik, as part of the Netherland’s national Weekend of Science and World Space Week.
- **Sky Light Space Opera:** An official project of UNESCO’s International Year of Light 2015 was a global science opera which was performed in 32 nations simultaneously during World Space Week.
- **Israel** hosted the grand finale WSW2015 Tweet-Up in Jerusalem, with space experts addressing the theme “Discovery”
- **United Kingdom** saw many events launching educational resources in preparation of British astronaut Major Tim Peake’s Principia Mission to the ISS. The Heinlein Educational Trust’s SOKOL KV-2 spacesuit was also in wide use inspiring children of all ages, at schools, festivals and launch events across the country. NASA astronaut Greg Johnston began Northern Ireland’s World Space Week celebrations in a special event at Ulster Museum, Belfast, and was a guest at many of the events across the province.
- **Mexico** celebrated World Space Week with the premiere of the movie The Martian and with simulation of zero gravity. The Congress of Mexico was inaugurated with a ceremony and a press conference. The Mexican Space Agency hosted the “Forces of Nature” photographic exhibition, as seen from space.
- **India:** Sounding rockets soared through the skies at Vikram Sarabhai Space Centre (VSSC). There were various competitions for schoolchildren in connection with the event jointly organized by the ISRO units of Thiruvananthapuram.
- **Ireland:** This year CIT Blackrock Castle Observatory, Cork partnered with the Dunsink Observatory and Lough Gur to celebrate WSW together with the students of Ireland.
- **The Space Foundation** celebrated World Space Week with former NASA astronaut, Dr. Leroy Chiao at the Discovery Center in Colorado Springs, USA.
- **Cubes in Space** Global Design Competition 2015 Winners were announced and the MPAC Group also announced its continued support for the 2016 program. Their launch took place in London, England.

World Space Week Association congratulates all participants, volunteers, coordinators, sponsors, and partners for this record-breaking year!



EVENTS STATISTICS

Number of Reported World Space Week Events by Year and Region Since 2007



Ten Countries with Most Reported Events in 2014 and 2015

Rank	Country 2014	Number of Events 2014	Country 2015	Number of Events 2015
1	France	235	Pakistan	300
2	India	231	France	185
3	Pakistan	176	Spain	170
4	United Kingdom	157	India	151
5	Spain	120	Saudi Arabia	128
6	Romania	89	United Kingdom	113
7	Germany	79	Germany	109
8	Saudi Arabia	73	Romania	108
9	United States	69	Brazil	102
10	Croatia	40	United States	74



WORLD SPACE WEEK 2016

Theme “Remote Sensing: Enabling Our Future”

From the early age of space activities, satellites have always been considered a perfect tool for observing the Earth, either for scientific purposes or to monitor activities on ground.

The UN Conference of Parties on Climate Change, held in Paris in December 2015, emphasized the key role space systems play monitoring essential climate variables, either for scientific modeling or for the assessment of greenhouse gas emissions by countries.

Besides monitoring the effects of climate change, the role of Earth observation satellites is recognized for other benefits such as:

- environmental observation leading to land use optimization, sustainable agriculture, detection of pollutants;
- disaster prevention and management providing vulnerability assessment, early warning alerts, impact assessments, management of first aid and first responder resources;
- peace keeping, such as the prevention of conflicts and for illegal traffic mitigation; and
- commercial uses such as mapping, analytics, data and other uses translate into economic benefit

For all these reasons, many emerging space faring nations chose to invest early on into Earth observation satellites.

The emergence of optimally performing small satellites, combined with the use of constellations, is also changing the paradigm of the Earth observation, bringing business into the picture with new private start-ups attempting to meet the insatiable demand for fresh and reliable information.

It is time to celebrate the increasing importance of Earth observation from space, a topic which has never been addressed as such since the creation of World Space Week.

Who uses remote sensing and why:

- the geographer, who looks for changes on the Earth's surface that need to be mapped;
- the forester, who needs information about what type of trees are growing and if they have been affected by disease, fire or pollution;
- the environmentalist, who wants to detect, identify and follow the movement of pollutants such as oil slicks on the ocean;
- the geologist, who is interested in finding valuable minerals;
- the farmer, who wants to keep an eye on how his crops are growing and if they've been affected by drought, floods, disease or pests;
- the ship captain, who needs to find the best route through the northern ice packs;
- the firefighter, who sends out his crews based on information about the size and movement of forest fire.



ORGANIZE AN EVENT

You Can Be Part of World Space Week 2016 by Organizing an Event

There are no limits to what can be done to celebrate space 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 what has been done in the past. Examples include:

- Hundreds of Airbus employees speaking at schools during World Space Week
- SUPARCO organizing 300 events across Pakistan
- Inmarsat starting the Volvo Ocean Race during World Space Week in Alicante Spain
- Space Foundation hosting WSW events in Colorado for teachers and students

There are only two criteria to have a World Space Week event:

1. The event must be space related.
2. It must begin or end during World Space Week October 4-10.

Enter the Event into the WSW Calendar

Enter the event into the global WSW event calendar on www.worldspaceweek.org before the event so that it can be counted. Afterward, update the entry with results so the impact of your event can be shared. Make your event count!



LEADERSHIP

UN Office of Outer Space Affairs

P.O. Box 500

Vienna A – 1400

Austria

Director: Mrs. Simonetta di Pippo

World Space Week Association

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20.000



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space REF



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<u>Country</u>	<u>Name</u>	<u>Organization</u>
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Argentina	Viviana Bianchi	Oficina Gemini Argentina
Australia	Paul Spencer	Space Milestones
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Azerbaijan	Famil Mustafa	Shamakhy Astrophysical Observatory, Tusi-Bohm Planetarium
Bahrain	Mohammed Al Kiyumi	Arab Youth Venture Foundation
Bangladesh	F.R. Sarker	Bangladesh Astronomical Society
Belgium	Geraldine Mariën	
Bolivia	Rodolfo Zalles	Observatorio Astronomico Nacional
Bosnia And Herzego	Senad Gutic	University in Tuzla
Brazil	Valmir M. de Morais	Núcleo de Astronomia
Bulgaria	Veselka Radeva	Observatory and Planetarium
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Canada	Wayne Ellis	Canadian Space Society (CSS)
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China	Jinyu Gong	Chinese Society of Astronautics
Colombia	Beatriz Elena Hernandez	Voz Infantil- Hola Juventud, WYESR-Colombia
Croatia	Danko Kocis	Astronomy society "Orion"
Cuba	Ramón E. Rodríguez Taboada	Institute of Geophysics and Astronomy
Cyprus	George Troullias	Kition Planetarium & Observatory
Czech Republic	Milan Halousek	Czech Space Office
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Egypt	Mohamed Attia	World Space Week Egypt Coordinating Committee
Ethiopia	Bekele Tujuba	
Finland	Markus Hotakainen	Tiedetuubi.fi
Germany	Bernd Brincken	Space-week.de
Ghana	Kwaku Bonsu	Ashanti Space Agency
Greece	Zoulias Manolis	National Observatory of Athens
Hungary	EI Both	Hungarian Space Office
India	C B Devgun	World Space Week India Coordinating Committee
Iran	Saeed Jafari	Human and Space Museum



Iraq	Harem Omer Kakil	Amateur Astronomy Association in Iraqi Kurdistan
Ireland	Claire McSweeney	CIT Blackrock Castle Observatory
Israel	Tal Inbar	Israeli Space Society
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Kenya	Peter Njuguna	Mbaruk Ecology Centre
Korea, Republic of	Gi-Joong Kim	Young Astronauts Korea
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Madagascar	Charles A. RATSIFARITANA	Ministry of National Education
Malaysia	Azreena Ahmad	National Planetarium
Mexico	Andres Eloy Martinez Rojas	Congress of Mexico
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New Zealand	Mark Mackay	NZ Space Foundation
Nigeria	J.O Akinyede	African Regional Centre for Space Science and Technology Education
Oman	Dr. Saleh Said Hamed	Oman Astronomical Society
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Palestine	Dawoud Tarawa	The Palestinian Astronomical Site
Panama	Azael Barrera	Florida State University Panama
Paraguay	Silvia Triguís	CEDIA Association
Peru	David A. Villanueva Cardenas	
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Portugal	Rui Agostinho	Universidade de Lisboa
Qatar	Abdulrahman Alassi	Qatar University Astronomy Club
Romania	Marius-Ioan Piso	Romanian Space Agency
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Serbia	Zoran Tomic	Astronomical Society Eureka
Slovenia	Orest Jarh	Technical museum of Slovenia
South Africa	Kaizer Moroka	DST
Spain	Armengol Torres	Intelligent Consulting



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Ukraine	Sergey Gerasymchuk	NSAU
United Arab Emirates	Mohammed Al Kiyumi	Arab Youth Venture Foundation
United Kingdom	Suzzann Parry	British Interplanetary Society
United States	Allegra Saerle-LeBel and Charlotte Kiang	WSW USA NC Committee
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Vietnam	Tan Vu Nguyen	Ho Chi Minh City Amateur Astronomy Club
Zambia	Prosperity C Simpemba	
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