

# World Space Week 2002

## Annual Report



Prepared by the United Nations Office for Outer Space Affairs  
in cooperation with  
Spaceweek International Association

April 2003



World Space Week



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## 1 Introduction

This is the annual report on the international celebration of World Space Week. It provides the background of World Space Week, details what occurred during World Space Week 2002, and recommends steps to make future World Space Weeks even more successful.

World Space Week was declared in 1999 by the United Nations General Assembly, implementing a key recommendation of the UNISPACE III conference. The objective of this event is to increase awareness among decision makers and the public at large of the benefits of the peaceful uses of space. The dates of World Space Week are 4-10 October annually.



*Youth in Algeria learn about the Saturn V launch vehicle during World Space Week 2002*

A total of 39 nations reported participation in World Space Week 2002. Government agencies, industry, schools, science museums, and other institutions held a wide variety of events. A global network of World Space Week coordinators is now in place in 52 nations.

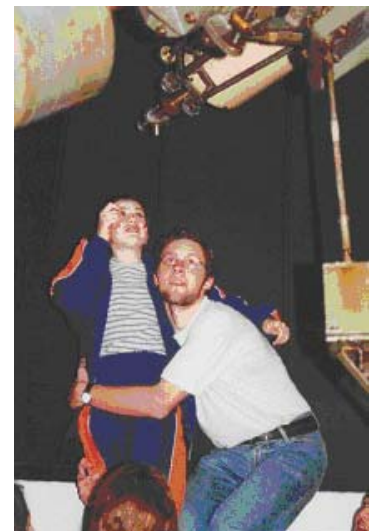
With many activities at one time, World Space Week efficiently reaches the public through attendance and media coverage.

The theme of World Space Week 2002 was "Space and Daily Life." Events focused on how space affects the daily lives of people the world over. The theme is depicted in the poster on the cover of this report. The theme for the 2003 celebration will be "Space: Horizon Beyond Earth."

Government and non-government organizations around the world are invited to participate in World Space Week. Support for the global and national coordinator of this event is also encouraged so that more organizations can be invited to participate.

This report was prepared by the United Nations Office of Outer Space Affairs in cooperation with Spaceweek International Association, a non-government organization which supports the UN in the global coordination of World Space Week. The Association serves all World Space Week participants through voluntary support.

For further information, please see [www.spaceweek.org](http://www.spaceweek.org) or email [admin@spaceweek.org](mailto:admin@spaceweek.org).



*Zdanice Observatory in the Czech Republic during World Space Week 2002*



## 2 Background

### 2.1 History

World Space Week, October 4-10 annually, was declared in 1999 by the United Nations General Assembly as “a yearly celebration at the international level of the contribution that space science and technology can make to the betterment of the human condition.” This was in response to the unanimous recommendation of all nations represented at UNISPACE III:

*from the*  
***Report of UNISPACE III***

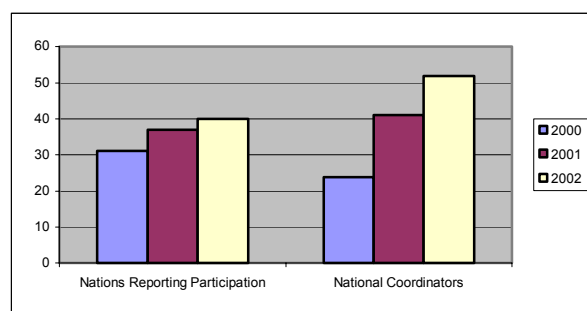
*Recalling* that 4 October 1957 was the date of the launch into outer space of the first human-made Earth satellite, Sputnik I, thus opening the way for space exploration,

*Recalling also* that 10 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,

*Decide*, in order to contribute to the achievement of the objectives of UNISPACE III, in particular that of increasing awareness among decision makers and civil society of the benefits of the peaceful uses of space sciences and technology for sustainable development, to invite the General Assembly to declare, according to its procedures, “World Space Week” between 4 and 10 October for the yearly celebration at the international level of the contribution that space science and technology can make to the betterment of the human condition.

### 2.2 Participation

Organizations in 39 nations reported participation in World Space Week 2002, an increase from 37 in 2001. Twelve nations participated for the first time. The number World Space Week national coordinators increased from 41 to 52 over the past year, indicating that greater participation in 2003 and beyond can be anticipated. The chart summarizes the participation in World Space Week.



The following table lists all states with reported participation and national coordinators.

Region	State	2000	2001	2002
Africa	Algeria			
	Djibouti			
	Ghana			
	Kenya			x
	Libya			
	Morocco			
	Nigeria			
	Senegal			
	Somalia			
	South Africa			
Asia & Oceania	Antarctica			
	Australia			
	China			
	India			
	Indonesia			
	Iran			
	Iraq			x
	Japan			
	Malaysia			
	Nepal			
	Pakistan			
	Philippines			
	Saudi Arabia			x
	Turkey			
Europe	Austria			
	Belgium			x
	Bulgaria			
	Czech Republic			
	Croatia			
	Denmark			
	France			x
	Germany			
	Greece			
	Hungary			
	Ireland			
	Italy			
	Netherlands			
	Poland			
	Portugal			
	Romania			
	Russia			
	Slovakia			
	Slovenia			x
	Spain			
Sweden				
Switzerland				
United Kingdom				
Latin America	Argentina			
	Bolivia			
	Brazil			
	Chile			
	Colombia			
	Mexico			
	Panama			
North America & Caribbean	Canada			
	Cuba			
	Dominican Republic			
	Trinidad & Tobago			x
	United States			
<b>Totals</b>		<b>59</b>	<b>31</b>	<b>37</b>
			<b>40</b>	



## 2.3 Organization

### 2.3.1 Global Coordination

The global coordination of World Space Week is the responsibility of the UN Office for Outer Space Affairs (OOSA). Assisting OOSA in this function is Spaceweek International Association (SIA), a non-government organization. SIA is dedicated to this function.

OOSA and SIA cooperate in encouraging participation in WSW, assisting participants, attracting publicity, and reporting results. SIA services include the distribution of an annual World Space Week poster, maintaining a detailed web site about World Space Week, and providing materials to teachers for use during World Space Week. SIA is a non-government, non-profit, non-membership organization that was founded in 1981.

The Association is governed by a distinguished Board of Directors, with members from 16 nations. The current members of the Board are listed below.

<b>Adigun Ade Abiodun, Chairman of the Board</b> Special Assistant to the President of Nigeria	
Buzz Aldrin, Astronaut	Luo Ge, China National Space Administration
Oleg Alifanov, Moscow Aviation Institute	Raimundo González, Ambassador of Chile and Chair of COPUOS
Ali Al-Mashat, Permanent Delegate of Iraq to UNESCO	Tom Hanks, Actor
Alvaro Azcárraga, Sener	Miguel Hernandez, Hernandez Engineering
Larry Bell, University of Houston	Raza Hussain, SUPARCO
Wendell Butler, Young Astronaut Council	Dale Johnson, Retired
Sergio Camacho, United Nations	Michel Laffaiteur, CNES/DLR
Pat Dasch, RSC International	Thomas Marsh, Lockheed Martin
Karl Doetsch, International Space University and Chair of S&T	George Mueller, Kistler Aerospace
Kerrie Dougherty, Powerhouse Museum	Walter Thiebaut, European Space Agency
Driss El Hadani, Royal Centre for Remote Sensing	Ernesto Vallerani, ALTEC
George French, Space Explorers	Joao Vaz, Brazsat
Israel Galvan, GHG Corporation	Chris Welch, Kingston University
	Kazuyoshi Yajima, Sano College

### 2.3.2 National Coordination

National Coordinators are crucial in the growth of World Space Week. They encourage participation in their countries and serve as national point of contact on this annual event.

The following tables lists national coordinators of World Space Week currently registered with SIA. Nations without a national coordinator are encouraged to contact SIA and propose a coordinator.

Africa	Algeria	Oussedik	Azzedine	Centre National des Techniques Spatiales
	Ghana	Bonsu	Kwaku	Ashanti Space Agency
	Kenya	Njuguna	Peter	Mbaruk Ecology Centre
	Libya	Gashut	Eng. Hadi M.	Libyan Center for Remote Sensing and Space Science
	Morocco	El Hadani	Driss	Royal Centre for Remote Sensing
	Nigeria	Boroffice	R. A.	National Space Research and Development Agency
	Senegal	Dia	Aliou Mamadou	University of Dakar
	South Africa	Joubert	Marina	Foundation for Education, Science and Technology
Asia & Oceania	Antarctica	Greene	Nick	McMurdo Station
	Australia	Dougherty	Kerrie	Space Summit
	China	Dept of Foreign Affairs		China National Space Administration
	India	Prasad	MYS	Indian Space Research Organization
	Indonesia	Djojodihardjo	Harijono	Institute of Technology Bandung
	Iran	Tarikhi	Parviz	Iranian Remote Sensing Center
	Iraq	Al-Mashat	Prof. Ali	Government of Iraq
	Japan	Fushimi	Kazuya	Japan Space Forum
	Malaysia	Shah	Zamri	Ministry of Science, Technology, and the Environment
	Pakistan	Shah	M. Nasim	SUPARCO
Saudi Arabia	Hakami	Muhammad	Jeddah Science & Technology Centre	
Turkey	Nuranoglu	Hassan	Space Research Working Group Turkey	
Europe	Austria	Weinwurm	Gudrun	Osterreichisches Weltraumforum
	Belgium	De Vos	Caroline	SpaceChecker
	Bulgaria	Radeva	Veselka	Informational Center for European Educational Astronomical Programs
	Czech Republic	Kolár	Jan	Czech Board for Space Activity
	Denmark	Jørgensen	Jesper	Danish Astronautical Society
	France	Laffaiteur	Michel	CNES
	Greece	Cassapoglou	Vassilis	Greek Centre of Space Science and Technology
	Hungary	Both	Dr. Elod	Hungarian Space Office
	Ireland	Barnett	Dr. Ed	Space Encounters
	Netherlands	Eger	Arthur	Space Expo
	Poland	Ustynowicz	Adam	Committee on Space Research, Polish Academy of Sciences
	Portugal	Lopes	Manuel Matos	Universidade de Lisboa
	Romania	Piso	Marius-Ioan	Romanian Space Agency
	Russia	Vozzhov	Vladimir	Department of International Cooperation
	Slovenia	Jarh	Dr. Orest	Technical museum of Slovenia
	Spain	Cragnolini	Alider	Instituto Nacional de Técnica Aeroespacial
Sweden	Brandt	Börje	Rymdtekniknätverk	
Switzerland	Meiner	Rudolph	PUSH Foundation	
United Kingdom	Welch	Christopher	Space Education Council	
Latin America	Argentina	Capeluto	Victor	St. Peter's School
	Bolivia	Zalles	Rodolfo	Observatorio Astronomico Nacional
	Brazil	Sausen	Tania Maria & Joao Vaz	Spaceweek Brazil Committee
	Chile	Mujica	Fernando	Aeronautical Engineer
	Columbia	Rua	Beatriz Elena Hernandez	Voz Infantil- Hola Juventud members of WYESR-Colombia
	Mexico	Martínez-Flores	José Luis	Universidad Nacional Autónoma de México
Panama	Barrera	Azael	Universidad Católica Santa María La Antigua	
North America & Caribbean	Canada	Clemen	Jason	Canadian Space Agency
	Cuba	Suarez	Loudres Palacio	Instituto de Geofísica y Astronomía
	Dominican Republic	Guerrero Mieses	Robert	Sociedad Astronómica Dominicana
	Trinidad & Tobago	Sankar	Hollis	Corinth Teachers College
	United States	Dasch	Pat	U.S. World Space Week Coordinating Committee

## 3 Results

This section contains an overview, followed by all reports received from participating organizations in World Space Week 2002. All reports received by SIA are included in this report. Please submit any additions or corrections to [admin@spaceweek.org](mailto:admin@spaceweek.org).

### 3.1 International Organizations

#### 3.1.1 European Space Agency

Apart from the Awards ceremony for the UNESCO essay contest hosted at the European Space and Technology Centre (ESTEC) of ESA in the Netherlands, at the initiative of the Human Spaceflight Directorate (see also report from South Africa), the Education Office of ESA proposed, via the Web site, a project on "Space and daily life.... in 45 years - A base on Mars". This was to recall that the first satellite was launched only 45 years ago and to propose to schools to think about how would life be in space in the same elapsed time. To ease the reflexion, we prepared a short description of the type of work we were expecting. It was made available in English, French, German, Spanish, Italian, Dutch and Portuguese. The proposed work was to include analysis of what a base on Mars would be and building the base, either with drawings or as a model.

We also translated in nearly all these languages part of the World Space Week Teacher's Guide (including all practical information on the event and selected proposed activities) to help activities during the week, even of not proposed by us.

The best projects we received came from Germany, France and Portugal and you can find them in the "News" section of our web site. Visit the ESA Education Web site on [www.esa.int/education](http://www.esa.int/education) to know more about our activities for teachers, children and students.

#### 3.1.2 UNESCO

Essay contest on "Space and Daily Life"

In the framework of the newly-launched "Space Education Project" (SEP)\*, UNESCO organized an essay contest for high school students (between 15 and 18 years old) on the WSW 2002 theme "Space and Daily Life". Despite the short notice and time frame given to students, the response was overwhelming. Some 290 essays were received from National Focal Points and contact persons in the following countries: Algeria, Argentina, Australia, Belgium, Bhutan, Botswana, Brazil, Canada, Chile, France, India, Indonesia, Italy, Kazakhstan, Kuwait, Arab Republic of Libya, Papua New Guinea, Philippines, Poland, Portugal, Romania, South Africa, Spain, Sri Lanka, Swaziland, Turkey, Tonga, UK, USA. 50% of the essayists were girls.

Winners of the contest were:

- First prize: Carike Bosman, South Africa\*\*
- Second prize: Divya Vaze, Hongkong, China
- Third prize:
  - Jennifer Przybylo, USA

- Phleappe Vwyioslf de Vera, Philippines
- Kim DeRose, USA
- Special ESA prize: Alastair Evans, U.K
- Special Prize for Developing Countries: Lesieli Matonga ‘Ahomana, Tonga

Prizes included monetary award ranging from \$500 to \$1,000 and a UNESCO certificate for the winners while schools of the winners received \$500 and educational materials. In addition, the first prize winner and an accompanying adult were given a roundtrip ticket to Europe (including living expenses) to attend the award ceremony organized by the European Space Agency in ESTEC, Noordwijk, Netherlands.

#### Award ceremony during World Space Week

The award ceremony for the first prize and special ESA prize winners of the essay contest was held on the second day of the World Space Week 2002 celebration (7 October) in the European Space Agency Research and Technology Center (ESTEC) in Noordwijk, Netherlands. High-level representatives of ESA (Dr. Jörg Feustel-Buechl), UNESCO (Dr. Wolfgang Eder), South African Embassy (Counsellor Chris Botha) and the Hague City Hall Economic Affairs (Dr. G.H. Dijkstra) were present at the award ceremony, as well as ESA's first European astronaut to the International Space Station, Umberto Guidoni. After the congratulatory speeches, winners and guests were treated to a tour of the ISS User Information Centre, a 3-D film showing of International Space Station and a sumptuous lunch.

To see excerpts from the winning essays, please go to [www.spaceweek.org/UNESCO](http://www.spaceweek.org/UNESCO)

\*See SEP website: <http://www.unesco.org/science/earthsciences/sep.htm>

\*\*See report of South Africa

\*\*\*See report of the European Space Agency

### **3.1.3 UN OOSA**

In 2002, the UN Office of Outer Space Affairs organized World Space Week activities in Djibouti and Austria. Please refer to those sections below for more information.

## **3.2 Africa**

### **3.2.1 Algeria**

For World Space Week, a National Salon on Popular Astronomy was held in Constantine which brought together associations from the various parts of the country to celebrate the Week. Sirius Astronomy Association a prominent youth association decided a year ago to hold a National Salon in celebration of World Space Week 2002. Under the hospice of the Cultural Consultative Committee of the City of Constantine, it started planning a series of



events, with a decision in a late stage to involve several well known Astronomy Associations, each representing a part of Algeria.



The Salon was held on the week next to the WSW due to the Nation wide Municipal elections held on the 10th of October with no public activities tolerated during the period prior to that date. Yet the various school districts were informed of the WSW celebration directly, and tens of various educational institutions in the Constantine area actually displayed the WSW celebration poster during the weeks prior to the event. A particularly vigorous media campaign was initiated in early September, and since late September till the week itself, ads were read on the air put graciously by the Cirta FM radio station, a government owned station, informing the public of the various events planned for the occasion. All in all, close to 1000 posters were distributed and posted at various public places, including some 150 buses and minibuses, the various Youth Centers... It is to be noted that almost all the major newspapers notified the public of the event, especially since the APS (Algerian Press Service), the official press agency put two wire bulletins on the events.



The Salon was held at the al-Khalifa Cultural Center, an imposing Center in downtown Constantine, and was inaugurated by the Governor of the Constantine province on October 16. Hundreds of visitors has walked through the various aisles and inquired at the different stands during the two days of the event. It was well covered by various local and national newspapers (*el-Khabar, el-Chourouk, el-Watan, Al-Açil...*), and by live broadcast by the Cirta-FM radio station. In addition to the various stands on the space conquest including models of Sputnik, Apollo 11, the Hubble Space Telescope, many explanatory panels focused on this year's theme, namely *Space and Daily Life on Earth*, were displaying the various applications of space. In addition, the AISAT1 satellite, the first Algerian satellite expected to be launched during the next few weeks as part of the DMC set of satellites (Disaster Monitoring Constellation) was given particular preeminence. A prominent area of the Salon was also the Smarties corner which was drawing a large crowd of young people at all times. Live demonstrations of air powered rockets were taking place on a continuous basis, as well as on oing puzzle competition with many small prizes given away for the winners. That made many tens of young people happy.

The stands of the various other astronomy associations have also seen an unending flux of visitors. We mention in particular al-Battani Association from Oran in Eastern Algeria with their slide show of their various astronomy trips in Sahara and foreign lands. The Mountada Association of Medea in Center Algeria stand displayed in particular the various scientific activities among the youth. The Amnir Club from Beni Isgen in the heart of the M'zab Valley in far South focused on their Astronomical observation program of eclipses, meteor showers... The Cirta Philatelic Club displayed through numerous panels, the history of the space adventure with thousands of stamps to show from those celebrating the launching of Sputnik to those on the ISS building.



the



The involvement of Algerian Schools with the NASA program ([www.geocities.com/sirius2002wsw/starshine.htm](http://www.geocities.com/sirius2002wsw/starshine.htm)) Starshine was highlighted through a special stand giving all the details on this School's satellite which has seen the involvement of some 50 educational institutions, public and private, with the Starshine2-3-4 satellites, arranged and coordinated by the Sirius Astronomy Association.



A set of four lectures were given during the Salon by professionals of the Space and Astronomy community and held in a large auditorium next to the exposition hall. In particular, the Thursday afternoon program was very well attended with hundreds of participants, mostly young people. The lecturers were

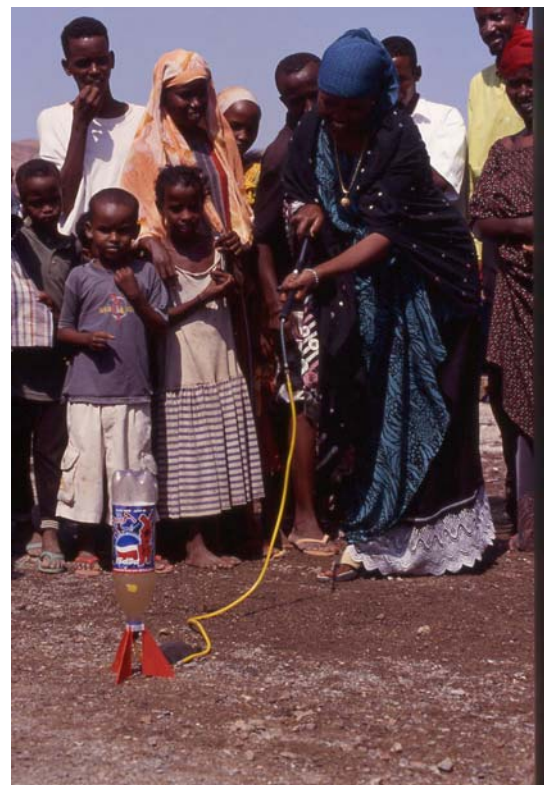
Dr.S.Kahlouche, head of the scientific applications division at the National Center of Space Technology (CNTS) at Arzew who talked on *"The National Space Program and ALSATI"*. The other lecture was given by Dr.N.Segouani head of the Astrophysics Department at the Bouzaréah Observatory near Algiers on *the "Astronomy of the Future."*



In addition, a special competition for young people was held with 150 participants from the audience divided according to two levels. Eight prizes were distributed to the winners, graciously donated by the DIDACTAL/ELECTROSON company, the official sponsor of the Sirius Astronomy Association.

### 3.2.2 Djibouti

The United Nations Office for Outer Space Affairs and the United Nations Educational, Scientific and Cultural Organization (UNESCO)'s Regional Programme of Education for Emergencies, Communication and Culture of Peace (PEER) celebrated World Space Week with an educational programme in the Holl-Holl and Ali-Addeh refugee camps in Djibouti. During a two-day teacher training workshop and four days of school visits, a member of the Orbital Mechanics Educational Network (OMEN), a U.K. non-government organization, taught a curriculum the Network designed especially for children in rural areas of developing countries. As well as giving children in the camps a basic understanding of space, explaining phenomena they see every



day, like the stars and the phases of the Moon, the programme included water rocket launches, building an equatorial sundial, and stargazing.

In addition, 200 packages of educational material were distributed to schools in the two camps in Djibouti, as well as to schools in Somalia. Among other things, each package included a star chart designed especially for children in equatorial regions and donated by the National Planetarium of Malaysia; space colouring books donated by ESA; Solar System posters donated by the U.S. National Aeronautics and Space Administration (NASA); a political map of the World; and a satellite map of Africa overlaid with political boundaries and major cities. The activity in Djibouti and Somalia was made possible through generous sponsorship from the Governments of Austria and the Libyan Arab Jamahiriya.



*Somali refugees in Djibouti launching water rockets during World Space Week*

### **3.2.3 Ghana**

The 2002 World Space Week will take place at the Aviation Social Center, Kotoka International Airport, in Accra through the week. Organizers are the Ashanti Space Agency, Ghana Civil Aviation, and the UN Development Program. More details will be on TV, Radio, and print media.

### **3.2.4 Libya**

In connection with the events that the United Nations holds and praises, the Libyan Center for Remote Sensing and Space Science, in its role as the main participant in those events, has held the festivities for the International Space Week from 7-8 / 10 / 2002 and it was attended by the director General of the National Committee for Scientific Research., the director general of the LCRSSS and head of the National Committee for Remote Sensing, the Director General of the Sahara and Sahel (OSS) countries gathering, a Representative of Permanent National Committee for the Peaceful use of Outer Space, a Representative of the Media Center of the UN Office in Libya, a number of Diplomatic Community, the Directors of the Scientific Research Canters, and the Director of the Department of Organizations in the National Committee for Scientific Research. Also a number of people interested in the space science attended.

It started with the National anthem followed by speeches for the event given by:

- The general Director of the Centre "LCRSSS".
- A Representative of the Permanent National Committee for the Peaceful use of Outer Space.
- The Director General of the National Committee for Scientific Research.

All praised this great event in which the Libyan Great Jamahiriya has participated with the International Community in celebrating it. While the Director General of the Centre has made notice of the role of Jamahiriya in entering the era of Space and Technology and making use of this science in the services of all humanity. The Director General of the National Committee for Scientific Research, praised the forth going role of the Libyan Centre in such events and its efforts in making use and bringing this science to be used for the service of the Libyan people and has acknowledged the hard work of the Center's Engineers and Specialist who have been the main reason for the successfulness of this event.



A visit to the Gallery was held in which the center's activities were presented and the posters of a number of projects were posted. Also displayed were posters of the Sahara and Sahel Telescope, and those of the Media Office of the UN Office in Libya.

Then a short break was taken in order to continue the Scientific Program the next day, in which it contained Scientific papers given by Specialist from the centre, with titles such as:

- A- A scientific paper about communication system through satellite.
- B- A scientific paper titled ( The threat coming from the sky ).
- C- A scientific paper on the importance of the peaceful aims in implementing the ground roles in the use of outer space.
- D- A flight over the MEUSE River flood 2002.

And in the glow of the event a portable telescope was admitted to service in the Libyan Centre announcing the beginning of the new and accurate astronomy know how and opens up Variety of options in the obtaining the necessary knowledge and data needed in the Great Jamahiriya.





Then the festivities have come to a successful End. Implying the true outstanding efforts by all participants in making the World Space Week an event to be waited for.

### **3.2.5 Senegal**

Our ambition for this year is to organize two demonstrations during October: a symposium and an exhibition on the spatial sciences. It is for that reason that we seek your support and your support for any point of view. Our country is still completely to involve in the use of the spatial sciences and it is for us the occasion to show to everybody our interest for it.

We plan to organize in partnership with the laboratory of remote detection of the department of geography of the university of Dakar a symposium on the spatial sciences and the exhibition which will allow us to show the various applications which are made(done) in the world.

### **3.2.6 Somalia**

Please see Djibouti.

### **3.2.7 South Africa**

We distributed information to schools in SA informing them of World Space Week, targeting schools with access to email and fax, complementing the info on the website and the link to the official website. This included information and entry forms on the UNESCO essay competition on "Space and Daily Life". As the coordinators of the national SA leg of this competition, we received entries from around the country and offered a R2000 prize and free subscription of Archimedes for a year, one of our publications targeting high schools for the two winners. The two winners were Carike Bosman and Philip Mare, Grade 11's both from Eldoraigne High School in Pretoria.

As coordinators of this national event, we then sent through the two winning essays of the SA leg to the international part of the competition at UNESCO HQ in France. A high ranking panel of judges selected the winners of this part of the competition from a total of 290 entries, and to our surprise, Carike Bosman from Pretoria, won first prize! She won US\$ 1000 and a round trip plane ticket to France and the Netherlands for two. She undertook this trip in October 2002 with her English teacher, Mrs Clarkeson, who encouraged her to enter. The highlight of their trip was the prize giving at the European Space Agency in the Netherlands on 7 October, right in the middle of World Space Week. Her school also won US\$ 500 worth of UNESCO coupons and various other prizes.



There was a lot of media coverage and interest, including radio, TV and newspaper coverage. Space was very big in South Africa after the space flight of Mark Shuttleworth - the first African in space

*UNESCO competition winner Cariék Bosman from South Africa and Umberto Giodoni at the European Space Agency's facilities in Noordwijk, the Netherlands*

### **3.3 Asia & Pacific**

#### **3.3.1 Antarctica**

At McMurdo Station, Antarctica, the library will highlight books on astronomy and space science. It will be decorated with a number of space informational posters. We will be handing out some free sky maps to those interested in trying to view our shortened night sky. We are hoping to arrange a couple of lectures from some of our local NASA representatives.

Sunday, October 6, Ice Radio 104.5 will present a show of space music beginning at 8:00 PM

#### **3.3.2 Australia**

The Star Class astronomy education website (based in Canberra) will be holding an on-line chatroom session on the 'Space and Daily Life' theme of World Space Week on the evening of October 5.

The National Museum of Australia in Canberra will be holding two events just before World Space Week that are relevant:

- On Sunday Sept 29, John Sarkissian, Operations Scientist, CSIRO, Parkes Radio Observatory, will present a free public lecture on Australia's role in the Apollo moon program
- From Monday 30 September to Friday 4 October, the museum will conduct a special media workshop for young people called Creating the News. This series of 5 x 3-hour sessions, with some distinguished radio and television journalists will encourage teenagers to develop and film their own TV program inspired by the 'To Mars and Beyond: Search for the Origins of Life' exhibition.

The NASA Visitors Centre at the Tidbinbilla Tracking Station plans to present a small exhibition about space spinoffs.

Because of the focus on the Star Wars exhibition at the Powerhouse Museum, its World Space Week programs will be focused at its Sydney Observatory branch. As it will be the school holiday period, the Observatory will have a large number of astronomy-based public programs that week, and the Spring holiday program is being billed as 'incorporating World

Space Week'. Saturday October 5 has been particularly advertised as WSW Day and will include a special lecture about the ISS by Wayne Short, from the National Space Society of Australia.

Victoria plans to celebrate World Space Week. Details are to be announced.

The Australian Space research Institute will also be holding its Spring sounding rocket launch campaign at Woomera during World Space Week. These launches are open to the public and are used to fly small student payloads, so they have a strong educational focus.

### **3.3.3 China**

China hosted number of activities:

- hosting a public rally and celebration ceremony for the opening of the WSW with students from Universities, middle schools. total of about 1000 person participated.
- opening the Space Museum in Beijing for the Public to visit, students free.
- organizing visit of National Satellite Meteorological bureau by students
- organized public lecture on science by the Administrator of CNSA and space scientists
- printed stamps and envelopes on the WSW

All activities are hosted by CNSA and sponsored by China Aerospace Science and Technology Corp.

### **3.3.4 India**

In various Centres of Indian Space Research Organisation we are celebrating World Space Week 2002. The lead launch vehicles development Centre – Vikram Sarabhai Space Centre, the lead Satellite development Centre, ISRO Satellite Centre, our launching Centre Satish Dhawan Space Centre-SHAR and Master Control Facility, Hassan are organizing a number of programme during this week. The programmes cover popular Lectures on Space subjects, programmes involving students, science teachers and general public. Competitions to the students in each region are being planned by the above Space Centres.

### **3.3.5 Iran**

The World Space Week 2002 with the theme “Space and Daily Life” was celebrated in the Islamic Republic of Iran in a broader level than the past two years that shows the promotion of the importance of space applications in the Iranian community. In addition to the Iranian Remote Sensing Center (IRSC), that was active as the coordinator of the world space week ceremonies in Iran for the third year, a number of organizations involved in the space applications throughout the country celebrated this week widely. The organized activities for celebration of the World Space Week 2002 in Iran signify the interest and attention of the authorities and public to this event.

The World Space Week 2002 Executive Committee leaded by the Iranian Remote Sensing Center, and consisting of the representatives of different organizations and institutions

involved in the applications of space science and technology in Iran agreed to address the days of the World Space Week 2002 to one of the space activities as follows:

- First day: space, hygiene and health,
- Second day: space and monitoring natural hazards,
- Third day: space, research and education,
- Fourth day: space and satellite communications,
- Fifth day: space, environment and sustainable development,
- Sixth day: space, Remote Sensing and geomatics,
- Seventh day: space, earth and exploration, agriculture and natural resources.

A promotion poster entitled “Space and daily Life” was designed and distributed by the Iranian Remote Sensing Center throughout the country. The Aerospace Research Institute, affiliated to the Iranian Ministry of Science, Research and Technology also designed and distributed a promotion poster on the occasion of the World Space Week 2002.

A memorial stamp was designed in the Iranian Remote Sensing Center and was printed and distributed by the Post Company of the Islamic Republic of Iran.

A painting contest for kids of the age 7-12 was organized by the Iranian Remote Sensing Center that was widely welcomed by the primary school students. The jury committee based at the Iranian Remote Sensing Center selected three winners for the category of 7-9 and three for the category of 10-12. The winners received their awards in a ceremony on the fourth day of the World Space Week 2002.

A contest on story writing for youth was organized by the Iranian Remote Sensing Center. Many participants entered the contest by sending their stories to compete for the best writing on space technology and its applications. The selection committee of the Iranian Remote Sensing Center selected six winners in two age categories. See painting below by Gelare Tofghi, 12, the first winner of the 10-12 category.



A book entitled “Observing the Earth from Space”, in Persian language on the applications of Remote Sensing data, which addressees are high school students was published and distributed by the Iranian Remote Sensing Center during the World Space Week 2002.

The media due to the World Space Week 2002 arranged many interviews and roundtables. The specialists, managers, and scientists involved in the applications of space science and technology were actively presented and negotiated the ideas and discussed the ways of expanding and promotion of the space applications for the sustainable development of the Islamic Republic of Iran.

Some seminars and conferences were held by a number of institutions and organizations involved in the applications of space science and technology in Iran. On the fourth day of the



World Space Week 2002, a seminar called “Space and Satellite Communications” was held in the Iranian Center for Communications Research. The managers, specialists and scientists on the benefits and advantages of the applications of space technology and its promising results in development of community presented a number of presentations. On the sixth day of the World Space Week 2002, a seminar entitled “Space, Remote Sensing and Geomatics” was held at the Iranian Remote Sensing Center. The relevant specialists and experts as well as interested people attended the seminar. The attendees welcomed the good quality presentations. As part of its program to promote and discuss space activities in the World Space Week 2002, The Aerospace Research Institute organized a web conference on general space-related issues. The themes of the web conference were as follows:

- Space Law
- Space Science Education
- Orbital Debris
- History
  - I. Space Exploration
  - II. Trend of Space Activities
  - III. Space Vehicle Design History
- Global Space Activities
- Space Commercialization
  - I. Commercial Launch
  - II. Space Tourism
- Space technology applications in daily life
  - I. Remote Education Systems
  - II. Remote Sensing and Earth Observation
  - III. Disaster Prediction and Management
  - IV. Global Navigation
  - V. Meteorology
- Life in space
  - I. Space Food
  - II. Space Suits
  - III. Effects of Living in Space on Human Body and Mind.



The most important activity during the World Space Week 2002 that was carried out by the Iranian Remote Sensing Center was the promotional work for clarifying the importance of the establishment of the Iranian Space Agency. Establishment of the Iranian Space Agency presently passes its parliamentary approval processes and it is hoped that Iranian space Agency will be established in the very near future facilitating the institutionalization of the space related activities in the Islamic Republic of Iran.

### 3.3.6 Japan

In Japan, September 12th is "Space Day." On this day in 1992 the astronaut Mamoru Mohri became the first Japanese in space aboard the Space Shuttle, and we have had the 10th Space Day this year.

Since 2000, we have regarded the period between the Space Day in Japan and the World Space Week as the "Space Month" and we hold many space-related events every year. The Ministry of Education, Culture, Sports, Science and Technology (MEXT), The Institute of Space and Astronautical Science (ISAS), National Aerospace Laboratory of Japan (NAL) and National Space Development Agency of Japan (NASDA) etc. promote the Essay and

Drawing Contest for Elementary and Middle School Students and other space-related events, where children can enjoy and learn about space and space development. Along with those events, ISAS, NAL and NASDA also open the facilities to public.

In 2002, as the opening event of the Space Month, "Fureai Festival 2002" was held in Matsue City, Shimane Prefecture from September 15 through 17. For the Essay and Drawing Contest, 17,774 essays and drawings were sent by children from all over Japan, and the awarding ceremony was held on October 6.

### **3.3.7 Malaysia**

Several activities were carried out during this week. These include:

- Space science quiz through the prime radio channel in Malaysia.
- Lucky draw tickets for National Planetarium visitors.
- Space science and astronomical video shows at the National Planetarium
- *Space Poetry Night*
- *Space Science Fiction Essay Competition* for schools
- *Space Science Quiz: Prime Ministers Trophy* for primary schools

A unique event for the 2002 celebration was the Space Poetry Night which featured the nation's elite poets and actors. It combined old Malay literature with modern poetry with a space science theme.

Another new event was the Space Science Fiction Essay Competition which attracted 1600 students from secondary and primary schools throughout the nation.

The annual Space Science Quiz was again held with a new record number of participants, i.e. 9,300 students. This year the quiz was honoured by the participation of the Prime Minister, for whom the trophy is named.

### **3.3.8 Pakistan**

The World Space Week celebrations are being held under the auspices of SUPARCO - the national space agency of Pakistan, with the active collaboration of M.A. Jinnah University and University of Karachi, according to the following plan:

Saturday, October 05, 2002, (Auditorium, M.A. Jinnah University, Karachi),

- INAUGURAL CEREMONY (0930-1000 hrs)
- SCIENTIFIC/TECHNOLOGICAL PRESENTATIONS (1000-1300 & 1500-1700 hrs)
- EXHIBITION (1000-1700 hrs)

Sunday, October 06, 2002 (Exhibition Hall, M.A. Jinnah University, Karachi)

- EXHIBITION/SPACE MOVIES (1000-1700 hrs)

Monday, October 07, 2002 (Morning Session) (Auditorium, M.A. Jinnah University, Karachi)

- QUIZ COMPETITION (1000-1700)

- EXHIBITION (1000-1700)

Monday, October 07, 2002 (Evening Session) (Observatory, University of Karachi)

- SCIENTIFIC/TECHNOLOGICAL PRESENTATIONS (1600-1800 hrs)
- STAR GAZING (1830 hrs onwards)

Tuesday, October 08, 2002 (Auditorium, M.A. Jinnah University)

- AWARDS DISTRIBUTION CEREMONY (1000-1100)
- EXHIBITION (1100-1700 hrs)

### **3.3.9 Turkey**

World Space Week will be celebrated at Çukurova Uni. Mithat Özsan Auditorium on 8 October starting at 2:00 p.m. The event will include:

- World Space Week in Turkey ( F.Hassan NURANOĞLU, Çukurova Uni. Physics Section 1 Class. World Space Week Turkey Coordinator)
- Space Research in Turkey ( Doç. Dr. Aysun Akyüz, Çukurova Uni. Physics Section.)
- Space Cowboys ( Movie Show)

## **3.4 Europe**

### **3.4.1 Austria**

The UN Office of Outer Space Affairs organized a poster exhibition entitled "The World from Space/Planet Erde vom Weltraum aus gesehen" from 4 to 31 October at the United Nations building in Austria. Posters of some of the most spectacular satellite imagery of the Earth were on display along with educational material explaining how these images are important for our daily life.

The centerpiece of this satellite imagery was the "Megacities Exhibition". Provided by ESA, the twenty A0 panels depict the major cities of the planet Earth as seen through the cameras of satellites orbiting several hundreds kilometers above the surface, and are among the highest resolution imagery commercially available today. The Megacities Exhibition was provided through the generous support of ESA, the Austrian Space Agency and GEOSPACE GmbH. Satellite imagery used in areas like agriculture, forestry, environmental monitoring, and urban planning was also on display.

The World in Space Poster Exhibition was made possible through the generous contributions of the following organizations:  
Austrian Space Agency;



AUSTROSPACE; China National Space Administration (CNSA); ESA's European Space Operations Centre (ESOC); GEOSPACE GmbH; Hungarian Space Agency; Iranian Remote Sensing Centre; Italian Space Agency (ASI); Kuwait Institute for Scientific Research; Malaysian National Space Agency; National Aeronautics and Space Administration (NASA), U.S.A.; National Space Development Agency of Japan (NASDA); Royal Jordanian Geographic Centre; Space Imaging, Inc; United States Geological Survey; Geoinformatics and Space Technology Development Agency (GISTDA), Thailand.

### **3.4.2 Bulgaria**

From 4th until 10th October in Bulgaria was marked the World Space Week Initiatives in Sofia:

- Official opening of the World Space Week in BULGARIAN ACADEMY OF SCIENCE
- Exhibition for the participation of Bulgaria in the exploration of space
- Reward of secondary school students who won the contest of foundation
- "Evrika" that was devoted to Space Initiatives in Varna:
- Opening of the World Space Week in the National Astronomical Observatory and Planetarium -Varna
- Exhibition-contest of space pictures made by children in the the alley of Cosmonauts in the Maritime Garden
- Festival of the young cosmonauts in the First Bulgarian children planetarium-Varna
- Teacher training workshop on space
- Writing letters to newspapers about space and participant in TV broadcast
- Students debates about space
- Star seances in the Planetarium in Varna : Star travelers

### **3.4.3 Czech Republic**

In 2002, the Czech Republic has officially taken for the first time active part in the World Space Week. The national contact point for the event has been the Czech Space Office ([www.czechspace.cz](http://www.czechspace.cz)). Enrolment of the individual contributors from amateur as well as professional organisations has been coordinated and organised by Mr. Milan Halousek, publisher and editor of the Czech space newsletter "KOSMOS-NEWS".

The year 2002 can be considered as a testing year in the term of organisation of World Space Week in the Czech Republic. The general information on the WSW and invitation for contribution to the worldwide programme has been distributed to almost 250 different organisations, clubs, associations and individuals having active relationship to space research, space flights and astronomy. The dedicated database of interested persons and institutions has been created during the preparatory process. In this time, it continues mainly professional and amateur astronomical observatories, space clubs, publishers and editors of printed or electronic space related newsletters and journals. All addressed people were supplied with general information about WSW, its backgrounds and various possible means to participate.



The dedicated web site in the Czech language (<http://web.quick.cz/SKT>) has been main information source on WSW and possibilities to participate in the event. Promotion or related information has also been presented later on the others web sites joining the action.

The main result of the first WSW in the Czech Republic presents new connections among institutions and persons contributing in the event. It has substantially improved capacities for the next year and improved general level of public presentation of space research and science. It is a good reason to suppose that the Czech participation in the World Space Week 2003 will be better.

- Organizer: Czech Space Office -- General World Space Week promotion on the office's web pages <http://www.czechspace.cz> and in printed documents.
- Organizer: newsletter KOSMOS-NEWS -- Promotion of WSW on own web pages <http://web.quick.cz/kosmos-news> and in printed monthly newsletter KOSMOS-NEWS accomplished by Mr. Milan Halousek. He has designed and developed the Czech dedicated Space Week web site <http://web.quick.cz/SKT>. He has also given a lecture on Apollo project in astronomical observatory in Karlovy Vary.
- Organizer: Astronomical Society in Pardubice -- WSW promotion at <http://web.redbox.cz/asp>, lecture about World Space Week for general public in Pardubice given by Ms Renata Krivkova.
- Organizer: Observatory and Planetarium in Plzen -- Two exhibitions in October 2002 on topics "The face of the Earth from satellites" and "Views into Space - HST".
- Organizer: on-line magazine Small Encyclopaedia of Cosmonautics -- WSW promotion at website of the Small Encyclopaedia of Cosmonautics <http://www.mus.cz/~ales>, discussion forum about space exploration promotion. Prepared by Ales Holub, editor,
- Organizer: on-line newspapers Space Scope -- WSW 2002 promotion at SPACE SCOPE <http://www.mujweb.cz/veda/leemer> prepared by Mr Michal Vaclavik, editor. He presented Space Week during programs at public astronomy observatory in Vsetin
- Organizer: Tomas Pribyl, space writer -- WSW 2002 and space exploration promotion in radio broadcasting, lecture at Mikulas Kopernik observatory in Brno.
- Organizer: magazine Space Outlooks (in Czech: Kosmické rozhledy) -- An article about World Space Week in September issue put by Petr Bartos, editor (author Milan Halousek).
- Organizer: Astronomical Society Hradec Kralove -- World Space Week promotion during events at observatory in Hradec Kralove and in the newsletter Povětron
- Organizer: Observatory Hradec Kralove -- Exhibition of space paper models prepared by Mr. Petr Balda and Mr. Milos Drabek, (10.8.-30.10.2002)
- Organizer: Vladimir Plachy, Pardubice -- Exhibition of space kits in several Czech elementary schools.
- Organizer: Observatory Karlovy Vary -- Autumn lecture workshop including special lecture on APOLLO programme presented by Milan Halousek. Permanent WSW promotion in local region organised by Mr. Miroslav Spurny.
- Organizer: Internet Space Portal -- WSW promotion on <http://www.space-portal.net>

- Organizer: Amateur Astronomical Observatory E.Halley, Hradec -- Meeting of space enthusiasts and exhibition of the space stamps and period press from the beginning of space age (5.10.2002) organised by Josef Ryba.
- Organizer: Ivan Mikoláš, Website -- WSW 2002 promotion on his Website. <http://www.mcc.cz>
- Organizer: Pavel Suchan, Czech Astronomical Society -- Press release of the Czech Astronomical Society in cooperation with the press department of the Czech Academy of Sciences about the ideal of the World Space Week
- Organizer: Observatory Valasske Mezirici -- Lecture "Chronicle of Astronautics" on September 25, 2002. Exhibition "45 years from Sputnik" during 1 October – 30 November, 2002. Exhibition "Space kits" during 1 November – 15 December 2002 Responsible person is Mr. Frantisek Martinek,
- Organiser: Observatory Prerov -- Exhibition of space kits, autograms of astronauts, photos and NASA, ESA, NASDA documents prepared by Mr. Patrik Pluhar. Lecture "Astronautics - today and in future", "International Space Station". General WSW promotion in local media.
- Organiser: Observatory and planetarium Ceske Budejovice -- Movie series "Turning points in space history" devoted to WSW prepared by Mr. Stefan Mery.
- Organiser: Observatory Vlasim -- Movie "Space conquest" about Moon exploration in Apollo programme and a lecture on October 10, 2002, (20 visitors) presented by Mr. Jan Urban
- Organiser: Observatory and Planetarium of the City of Praha -- WSW 2002 promotion on the web site. Education performance "Moon dream" prepared and presented by Mr. Marcel Grun.
- Organiser: Public observatory Zdanice -- Lecture "Sputnik 1 - 45 years" given by Mr. Ivo Micka together with astronomical observations on October 4, 2002. Games and competitions in the field of astronomy and astronautics for children and youth on October 5, 2002, prepared and organised by Mr. Martin Netolicky.
- Organiser: Observatory Vsetin -- A day of lectures (October 4, 2002) devoted to Earth observation, meteorological satellites, space tourism, space research in the Czech Republic and planned development in astronautics prepared by Mr. Michal Vaclavik (21 participants)
- Organiser: Observatory Jindrichuv Hradec -- Lecture on space research, exhibition board on astronautics prepared by Ms. Jana Jirku Astronomical children day and observation of the Moon on October 12, 2002.
- Organiser: Observatory Olomouc -- Promotion of WSW on web site done by Ms Eva Kovarova.
- Organiser: Private company MC Com -- Promotion of WSW on web site done by Mr. Ivan Mikolas



#### **3.4.4 Denmark**

The World Space Week was introduced in Denmark this year, where 10 lectures were performed in Copenhagen and Aarhus with sessions targeting specialists, general population or youth. The subjects of the very qualified lectures were: ISS-construction and function, daily life spin-offs of ISS and space research, daily use of satellites, can we colonize the space?, use of ISS and its research in preparation for a manned mission to Mars, biomedical spin-offs from ISS to daily life, psychological problems in long-time space travel and planetary research as a tool in climate research on earth. In connection to the lectures a ESA sponsored exhibition on ISS has been presented. In Copenhagen the lectures have been given at the Tycho Brahe Planetarium and in Aarhus at the planetarium at The Steno Museum.

World Space Week is introduced as a returning yearly event in Denmark, and agreements between interested parties have been made for a national coordination committee for WSW 03, which will work for a nationwide week of activity in WSW next year.

#### **3.4.5 Germany**

An event to celebrate World Space Week was planned to take place in Berlin, focused on space and education. Due to scheduling considerations, it has been postponed. The event, sponsored by CNES and DLR, expected 50 students from France and 150 from Germany.

#### **3.4.6 Hungary**

On 4 October the Second Youth Forum will be held mainly organized by the Hungarian Space Office and the Scientific Council on Space Research.

The Hungarian Astronautical Society will open its annual essay competition within some weeks. (Last year there were 98 participants).

#### **3.4.7 Ireland**

Events in Ireland began with an evening of space science hosted by the W5 discovery centre and the IMAX Theatre in Belfast. The principle speaker was Dr Martin Huber president-elect of the European Physical Society. His talk entitled 'A Century of Space Science' took the audience through many fascinating areas of space science, from aurorae to the active Sun, and to the realms of comets and beyond. A modest audience of some 50 individuals of all ages attended both the talk and the IMAX movie 'Destiny in Space'. Everyone got to relax a little during a buffet meal. Overall it was an excellent event promoting dialog between individuals from all over Ireland, and a good launch platform for 2003.

Activities in the south of Ireland began Saturday morning with the Whirlpool Star Party - an annual gathering of astronomy enthusiasts. Around 200 individuals attended this year's event which hosted speakers as notable as John Dobson, inventor of the Dobsonian Telescope, Jack Newton, and others. The Whirlpool Star Party takes place in Birr in the Irish midlands home of Lord Rosse and of the Great Leviathan telescope - the metal mirrored 19th century creation with which the Whirlpool galaxy (M51) was discovered and identified.

In Co. Donegal, the Greencastle Maritime Museum and Planetarium hosted two days of shows and talks to mark WSW 2002. This facility is quite small and rurally set. Yet attendances were positively high for the time of year.

Springer publishers provided a number of books for distribution during the week via competitions etc. Unfortunately, these arrived a little late to be of most benefit. However, competitions were held at local astronomical clubs and society meetings, and on BBC regional radio generating a good level of interest and awareness of the concept of World Space Week. The late arrival of the offer/books meant that local press did not have time to react.

The amateur community marked the event with club nights and various speakers. The press provided a modest level of coverage. In 2003 the aim must be to focus the benefits of space on to the individual - as was the aim of 2002. Planning for WSW 2003 is already underway.

### **3.4.8 Netherlands**

The Space Expo space weeks will take place between 12 October and 27 October. We organize a "Junior Astronaut Program" in our full size model of the European Columbus module (of ISS). We will start with five kids in the ages of 10 to 12 years that will stay for 24 hours in the module. They will act as science astronauts, will do experiments and will eat and sleep there. There will also be a few chat sessions. They will chat with Dutch children about their experiences.

The rest of the period we will have short sessions in the Columbus module, that will take three hours (again with children).

The program is sponsored by the Dutch Space Industry and one of the leading internet providers in Holland. There will be TV-coverage and a lot of magazines and newspapers have shown their interest.

### **3.4.9 Poland**

For the third time, we will celebrate in Poland the World Space Week. This year, our program will start on 1<sup>st</sup> October in Warsaw Technical University on the occasion of launching Astronautics as a new specialization in Aviation Department. During the inauguration of the academic year 2002 we will organize a press conference with astronaut Scott Parazynski and prominent Polish scientists to popularize international co-operation in space science and industry. We would like also to promote space industry careers among young scientists and engineers. The success of Polish ZERO-G team from Warsaw Technical University will be shown as a good sample of Polish – ESA cooperation.

Dr Scott E. Parazynski, who is a special guest of the opening ceremony, conveyed to the ISS a picture painted by Polish boy who won the Space Contest 2002. Because of the September 11 events, he was unable to join us for WSW last year. Now, the picture will come back to the 12 years old author with signatures of STS 100 crew. The decoration will take place in Gorzow – a medium size city in Northwest Poland. Because the prizes for the best artwork, best teacher and best school went to this city, we decided to invite Scott Parazynski to them. The kids in Gorzow are preparing special exhibition and show for the astronaut. This event will draw attention of nearly all TV and radio stations. We hope that this event will increase the popularity of space exploration among children from countryside and give them courage to make their dreams true.

On 4<sup>th</sup> October Committee on Space Research will have a special symposium on educational programs for children and students, which we plan to implement next year.

During WSW there are organized numerous educational events in planetariums, schools and universities.

### **3.4.10 Portugal**

Nationally, we have formed a Commission involving other colleagues from the Faculty and the secondary schools together with the backup of our National agency for Science outreach called *Ciência Viva*. You can find preliminary information in Portuguese on the site <http://www.cienciaviva.pt/space/>

Also please see: <http://estrela-polar.freesevers.com/>

### **3.4.11 Romania**

Romanian Space Agency organized the celebration of the World Space Week each year since 1999. This year, applications to daily life would be in focus. Space telemedicine and healthcare, satellite mobile communications and multimedia, global navigation satellite systems, precision farming systems, disaster monitoring and personal security space applications have direct beneficial effects for the citizen. These items will constitute the center of attention of the events to be organized in Romania.

During October 4 - 10, 2002, the scheduled events are the following:

- There will be some space-related news on the media during October 4th, announcing the event.
- Beginning with October 7th the "Aeronautics and Space" Exhibition, organized by the Romanian Space Agency, will be opened in the frame of the national event "CONRO - 2002", organized by the Romanian Ministry of Education and Research.
- A radio show will be given by Radio Romania during October 8, with the participation of space professionals.
- A special WSW day will be held during October 9, in the ROMEXPO facilities in Bucharest.
- In the days of October 4, 7, 8 and 9, scientists and teachers will hold special lectures for college students.
- An educational software product, sponsored by the Romanian Space Agency and the European Space Agency, will be presented and freely distributed in schools. The personal computer version has wide capabilities of satellite data processing, with applications to environment, meteorology, disaster management, and other sustainable development related items.

All events will be posted on the Romanian Space Agency web page. The WSW poster will be distributed and placed in public places, mostly in schools and universities. A Romanian specific poster for the WSW will also be posted.

### 3.4.12 Russian Federation

The following events in the Russian Federation celebrated World Space Week:

- Public meeting of cosmonautics veterans, cosmonauts, students and high school students. This meeting was devoted to the 45-th anniversary of the Sputnik 1 (PS1) launch and took place in the Moscow city hall on October 3, 2002.
- Politechnical conference in Moscow Politechnical museum on October 8-9, 2002
- 1st International Scientific conference "The cosmonautics of the XXI century". Rosaviakosmos, Moscow, October 2-3, 2002.
- Round-table discussion dedicated to the 45-th anniversary of the Sputnik 1 launch in the Youth Space Center of Bauman Moscow State Technical University, Moscow, October 3, 2002.
- There was an event on October 4th at Moscow Aviation Institute with the cosmonaut graduates and participants of the space exploration.
- A special rally carrying WSW mottos and all types of PR took place in Khimki Moscow suburb that is one of the rocket and space industry centers where Lavochkin and Energomash are located.

### 3.4.13 Slovakia

- Organiser: Observatory Rimavska Sobota, Slovakia -- Lecture for schools and touring exhibition prepared by Ms. Daniela Rapava
- Organiser: Observatory and Planetarium in Presov, Slovakia -- Lectures "Observation and movement of the satellites" and "What did space exploration give to astronomy?" on the planetarium on October 8. Movies show "Inside the spaceship" and "Exodus from the Earth". Space photo exhibition..

### 3.4.14 Spain

Spain's celebration of World Space Week included:

- A one week celebration in Canary Islands, promoted by the local Scientific Circle. Main activity consists on a series of conferences on the topic Space & Daily Life. Conference « Space week in Canary Islands » jointly organised by : Scientific Circle of Canary & University of Las Palmas, sponsored by INTA & local government. Held at University of Las Palmas de Gran Canaria. Oct. 14 : « Mission to Mars » By José Maria Dorado UCM. Oct. 15 : « Influence of Space in daily life » By Alider Cragolini. INTA. Oct. 16 : « Satellite technology for a more comfortable and safer transportation » By José Torres Riera. INTA. Oct. 17 : « Don Quixote Project : how to fight against dangerous asteroids » By José A. Gonzalez Abeytua. DEIMOS SPACE
- Oct. 18 : « The Blue Planet : satellites & oceans » By Octavio Llinás. DG Canarian Government

- Conference: “Space & Daily Life (Oct. 9/10) organised by the Students Association of Physics, Electronics and Computer Sciences. Complutense University. Madrid. October 9th., 2002.: « Social and Political Aspects of Space Activities » Alider Cragolini. INTA and « Legal Aspects of Remote Sensing » Salomon Montesinos. GEOSYS. October 10th. 2002: « Space technology and ground transportation » José Torres Riera. INTA, and « Scientific use of Space » Willem Wamsteker. ESA/WSO. Held at the Assembly Hall, Computer Center. Complutense University. Madrid
- Promotion actions were taken by PR Department of INTA. (press release, posters dissemination, web site info) etc.
- A radio station will devote part of a morning programme to space topics this week. Specific scope on young people. On 10th. October, interview about space activities with Mr. Juan Perez Mercader, Director of Center of Astrobiology at EUROPA FM broadcasting station. The same station devoted a morning programme to space issues during the week.
- A well known publishing company offers books on space matters at a discount price for students. An artist has made the same kind of offer for printing works devoted to space issues.
- WSW national coordinator acted as point of contact and national jury of UNESCO Essay Contest on the topic “space & daily life” for students.
- Actions of promotion on various fields such as: several web sites shown information on the topic. Wide distribution of posters. Press release made by a relevant media agency (TV, newspapers, etc). Books on space matters offered at a discount price by an international publishing company, etc.

### **3.4.15 United Kingdom**

1.10.02

- Wish You Were Here. Talk by astronomer Lillian Hobbs about the Wonders of Space, Wimborne, Dorset , Wessex Astronomical Society / Geoffrey Holland,

4.10.02,

- SDC EGM Weekend *until 6.10.02*, Space Development Council / Andy Nimmo
- BBC Space Online Competition, *Details to be announced*, BBC / Michelle Martin
- BBC 'The Sky At Night' Astrophotography Competition (*Details to be announced on programme on 14 October*) , BBC / Jean-Donat Vellino,

5.10.02

- Space Education Council Annual Symposium, London, SEC / Chris Welch
- Mars Lander Competition, Farnborough, for ages 14-18, QinetiQ / Hazel McAndrews,
- Bristol Astronomical Society Convention, University of Bristol, Bristol Astronomical Society / Andrew Grasemann

- "International Space Station" - talk by David Shayler (11am and 2pm), National Space Centre, Leicester , National Space Centre / Kate Finnigan
- 'Apollo' - talk by David Shayler (12pm and 3pm), National Space Centre, Leicester , National Space Centre / Kate Finnigan

#### 6.10.02

- Mapping Mars by Andy Lound of the Planetary Society, Handsworth, Birmingham., The Planetary Society

#### 7.10.02

- Blast Off!, Talk on rockets and space travel, St Paul's Junior School, Kingston, Kingston University / Dr Chris Welch
- Planetary Photography by Andy Lound of the Planetary Society, Kidderminster Camera Club, Kidderminster Camera Club / Roland Windsor

#### 8.10.02

- 'WYSPACE' Conference, Bradford, Gazelle Solutions
- Lecture by Dr Ian Crawford, 'The Scientific Case for Humans in Space', London, KUSEDS / Flis Holland

#### 9.10.02

- Suiting up for Space, Talk/demonstration on space suits, Mayflower School, Leicester, Orbital Mechanics / Trevor Sproston
- To Boldly Go: The Future of Space Exploration, Royal Society Talk, London, The Royal Society / Aosaf Afzal
- Extreme Mars: Volcanoes, Canyons and Floods. Talk by planetary scientist Dr John Bridges (11.30am and 2.30pm, with latter also live on the internet). Natural History Museum, London, Natural History Museum / Emma Freeman

#### 10.10.02

- Special Report, 'Business of Space', Financial Times

#### 12.10.02

- 50 Years of Space Travel exhibit by the Planetary Society at the Walsall History Fair 2002., Walsall History Fair / Stuart Williams



### **3.5 Latin America**

#### **3.5.1 Argentina**

On October 5<sup>th</sup>, around 600 people, between pupils, parents and friends, attended at St. Peter's School premises a morning dedicated to space related activities.



- **Kindergarten pupils, age 3 and 4**, worked on a mural and built a mobile that included stars, planets, space-ships, etc. The **5 year olds** built an enormous rocket with disposable material.
- **1<sup>st</sup>. Form Pupils**, aged six, presented a group dramatization, “El Misterio de la Galaxia” in Spanish and “Little Rock on Mars”, in English. They also had a display with posters on the subject.
- **2<sup>nd</sup>. Form Pupils**, aged seven created a play where different characters represented the earth, sun moon, planets, showing the movements of the earth, the different phases of the moon, the change of the seasons in Spanish. “Journey into Space” – the ballad of Elizabeth Moo and our imaginary planet was also performed by the children.
- **3<sup>rd</sup>. Form and 5<sup>th</sup>. Form Pupils** gave atmosphere to a very big classroom, as if one entered outer space. They darkened the room, planets, stars, even a rocket and astronaut hung from the ceiling. In that atmosphere some children showed an audiovisual “Maravillas y fantasias del Universo” (in Spanish), alternating it with legends that spoke of the origin of the solar system, and others read stories they had created “Lovely Aliens” in English.
- **4<sup>th</sup>. Form Pupils** presented areports where they had worked on Ray Bradbury’s texts “Más allá de la tierra, el infinito fantástico” (in Spanish) These nine year olds’ also turned their classroom into a completely dark room, with black light, where you could join in “A magic trip to outer space” where they showed galaxies and other characteristics of the sky.
- **6<sup>th</sup>. Form Pupils** worked on a Power Point presentation “Constelaciones y cuerpos celestes”, and with a display in their classroom “Out in Space through time”-
- **7<sup>th</sup>. and 8<sup>th</sup>. Form Pupils** showed their hydroponics cultivation in the Labs and a series of panels and models referred to the conquest of space. There were also works on “Nutrition in Space”, dehydrated food, diet in space, food conservation, etc. These were all Lab experiences with their subsequent explanations. “Imágenes Satelitales” was another presentation which was done with satellite pictures borrowed from the Servicio Metereológico Nacional.
- **Polimodal I Pupils** 15 year old, published a magazine “Mundo Astronomía” which we are sending separately. They also worked in a survey where they asked all the visitors if space activities justified public investment in Argentina today. The pupils will work on the results with their sociology teacher.
- **Polimodal II and III Pupils** aged 16 and 17, worked on Lab experiences studying bone tissues and cell samples, measurement series and re-crystallization. They also created and showed an audiovisual “La collision del cometa Shoemakerlevy en Jupiter”.
- **Space Club Pupils**, pupils who stay after school hours to work on this subject, presented three projects:
  - **Rover Sojourner** showed the replica of the sojourner which took part of the Mission Mars Pathfinder from July 1997 to September 1998. The model was built by a group of six pupils that used all the real facts and measurements to build a scale model.



- **Mission to Mars** was a project developed by eight students that programmed a simulation that allows us to actually travel to this far away planet. Those that take the risk will have to cope with different situations, interact with different computer terminals that will act as Mission Control, Space Shuttle, International Space Station and Mission Control in Mars. Pupils had to work with sophisticated soft and had to create all the probable steps and possible flaws that could happen during the trip.
- **Rocketry** During all this year another group of eight pupils have been working on this project aiming to make a rocket fly and being able to predict its course. This project included the making of the fuel, motor, pressure nozzle, and the design of the rocket itself. All this investigation is based on data obtained through the Internet. On this special day visitors were able to watch videos with the results that were obtained during the different stages of the investigation. During the fair three static motor tests were held.



- Another group of **pupils from St. Nicholas School** accompanied by teachers and Heads, also took part of this fair and showed their investigations on rocketry as well, making this meeting an enriching experience.
- To the aforesaid activities, a lot of writing – poetry, fiction – and even an **Art Contest** and a **Literary Contest** where another school, **Nazareth**, took part.

Slowly and gradually we are managing to get more schools and ordinary people involved in World Space Week.

### 3.5.2 Bolivia

Y con la intencion de celebrar por primera vez LA SEMANA MUNDIAL DEL ESPACIO en mi pais, este año las actividades estaran concentradas en la ciudad de Tarija y tengo preparado lo siguiente:

- En nuestro boletín informativo mensual (distribuido en todo el pais) se destacara La Semana Mundial del Espacio.
- Del 4 al 10 de octubre el observatorio estara abierto al publico con las siguientes actividades: Proyeccion de videos astronomicos y astronauticos. Observación del cielo sin instrumentos y explicación de la boveda celeste. Visita a todas las instalaciones del observatorio, Observaciones astronomicas con los telescopios disponibles para este fin. Exposición permanente de fotografías astronomicas y astronaucicas.

- Publicacion en los periodicos locales y nacionales , sobre la Semana Mundial del Espacio.
- Intervención en la Televisión Universitaria y otros medios televisivos sobre la Semana Mundial del Espacio
- Publicación de tripticos, sobre la contribución de la ciencia y la tecnología espaciales a la mejora de la condición humana, La era espacial, etc.
- Distribución de los tripticos en todas las escuelas y colegios de la ciudad y del departamento de Tarija para que los profesores puedan difundir a los escolares y estudiantes sobre lo que es y pretende ser la Semana Mundial del Espacio.

Hubiera deseado con la ayuda de usted y con mas tiempo de anticipación organizar la Semana Mundial del Espacio en todo mi pais, pero lamentablemente no he contado con los medios para hacerlo , pero para el 2003 podemos coordinar mejor y preparar la semana mundial del espacio en todo el pais, para lo cual necesitare la cooperación de usted y tambien trataria de conseguir apoyo de mis autoridades, para lo cual necesitaria un nombramiento oficial como coordinador nacional de mi pais en este evento.

### **3.5.3 Brazil**

We are organizing an exposition in Shopping Center Colinas in Sao Jose dos Campos. The idea is to show to the Sao Jose dos Campos population the spin off from space area. There will be some poster explaining about World Space Week and about the spin off, an some store will show the spin off, like tennis shoes that absorb the impact, neoprene diving suit, ribbed swimsuit in sport goods store, the teflon pan, enriched baby food, dehydrated food in supermarket, sports training equipment in sport academy, digital watch and scratch-resistant lenses in stores, on line services in banks, high quality food in the restaurant because we have the remote sensing satellite and weather forecast satellite, that helps the agriculture, game, joysticks and internet games in arcades, etc. The idea is to show that the space area helps us to have a better life, everyday, everywhere, like a Shopping Center.

### **3.5.4 Chile**

For information on Chile's plans for World Space Week 2002, please see:

<http://www.geocities.com/espacio2002chile/>

### **3.5.5 Colombia**

October 4th -- During World Space Week 2002, three main activities were set. The first one, the opening ceremony, was the lecture "Astronomical Navigation". The lecturers were students of the Escuela Naval de Suboficiales ARC Barranquilla. Teachers and students from different schools in Barranquilla attended this event at the Centro Cultural Comfamiliar del Atlántico: Colegio Gran Colombiano, Col. Americano, Col. San José, Instituto Técnico Nacional de Comercio INSTENALCO, Instituto para el Desarrollo del Potencial Humano IDPHU, Col. Colón, Col. Sofia Camargo de Lleras, Instituto Pestalozzi, Unidad Porteña de Aprendizaje UPA, Col Nuestra Señora del Carmen and Instituto San José.

October 5th -- The next activity was an hour and a half special radio program at La Voz De La Costa Radio Station. Voz Infantil and Hola Juventud, which programs are produced by youngsters, found in the "Space and Daily Life" an interesting way to get Colombian children

and young people familiarized to all those technological advances which had their origins in the mankind career to space. This special started at 9 o'clock in the morning and finished at 11 am. Again, it was an opportunity for schools and other institutions to show how they celebrated World Space Week.

October 7<sup>th</sup> -- The third event was a workshop about "Science and Study Clubs". The leaders of the workshop were four students of Colegio Colón from Barranquilla: Diana and Sandra Canchila, Eugenia Sarmiento and Carlos Ortiz. With a very creative and active methodology, they gave some key steps to form and work in a club of students dedicated to the science and astronomy. This activity took place in the Auditorium 'Angela Muñoz' at the Public Library of the city.

Students and teachers from different schools in Barranquilla attended the workshop, but it was amazing to meet pupils and teachers from other towns of the Departamento del Atlántico: Instituto Técnico Agropecuario Nuestra Señora de la Candelaria, Col. Técnico de Santo Tomás, Col. Bachillerato Femenino de Sabana Larga, Escuela Normal Superior Santa Ana de Baranoa, Bachillerato Francisco de Paula Santander de Galapa, Bachillerato Comercial Mixto de Ponedera, Bachillerato San Pablo de Polonuevo, Instituto Técnico Agropecuario de Ponedera, Colegio Bachillerato de Campo de la Cruz, Colegio Bachillerato de Santa Lucía, Instituto Técnico Agropecuario de Tubará.

Besides these three main activities organized by Voz Infantil-Hola Juventud and WYESR Colombia, the Planetarium of Barranquilla presented a lecture about 'Signs of life in Mars' by Alvaro Jimenez Vélez. Moreover, schools and universities celebrated World Space Week in their classrooms and with special presentation of experiments and researches based on the main theme of World Space Week 'Space and Daily Life'.

### **3.6 North America & Caribbean**

#### **3.6.1 Canada**

The Canadian Space Agency will promote World Space Week by referring our visitors to the World Space Week web site. See <http://www.space.gc.ca/kidspace> and [http://www.space.gc.ca/kidspace/2-sp\\_projects/default.asp](http://www.space.gc.ca/kidspace/2-sp_projects/default.asp)

#### **3.6.2 Cuba**

The Ministry of Science, Technology and Environment with the support of several organizations, ministries and universities planned and organized the activities to celebrate the World Space Week 2002 in Cuba. Planned activities are:

- October 4 to 10: TV Spot about the World Space Week
- October 4.- Open Ceremony at the National Aircrafts Museum. Speakers : General Armando Tamayo Mendez, Cuban Astronaut; Dr. Daniel Codorniu, Deputy Ministry of Sciences, Technology and Environment; Dr. Ismael Clark, President of the Cuban Academy of Sciences; Dr. Lourdes Palacio Suarez, Cuban Space Committee.
- Professor Jorge Perez Doval will talk about "Meteors Rain" at the Planetarium of the National Aircrafts Museum

- October 5.- "Party of the STARS'. Night Observations with telescopes from Havana Malecon, COSMOS Group, Havana's University.
- October 6.- Special public Lectures on Space Sciences at the Planetarium of the National Aircrafts Museum
- October 7.-Video Forum "Looking for Life in Outer Space", in charge of Dr. Oscar Alvarez at the "Glauber Rocha" Theatre
- October 8.- Special Conferences about different topics of Astronomy by BSc Eduardo del Pozo, BSc Adolfo Mendez and BSc Jorge Valiente at the Theatre of the National Aircrafts Museum
- October 9.- First National Workshop on "Outer space and its Peaceful Uses", National Capitol, Ministry of Science, Technology and Environment
- October 10.- Night observations , in charge of BSc Ernesto Rodriguez with the participation of Amateur Astronomers, COSMOS Group.
- There will be a Special Movies Festival during all of the week with scientific films at the "Glauber Rocha" Theatre.

### **3.6.3 Dominican Republic**

Sept.25

- 7:30pm – 9:00pm Press meeting, Patio Espanola, Loyola College
- October 07 (Monday)
- 8:00 pm Solar System conference, Auditorium, second floor Loyola College

October 09 (Wednesday)

- 8:00 pm Deep sky conference, Auditorium , Second floor, Loyola College

October 11(Friday)

- 10:00am – 12pm Exhibitions of all the drawings of the children inspiriting in the space. The children's parents are welcome. Loyola College pre School. We are going to motivate the children during the week.
- 7:00 pm – 11pm Star Party, Telescopes demonstrations. Loyola College

Throughout World Space Week

- Reflection about the celebration of WSW, College Loyola.

During the press meeting we encourage to the public and others educational institutional to celebrate WSW in different ways. Also we invited the Secretary of Education that is also Vice-President, and she sent a representative of the government.

### 3.6.4 Trinidad & Tobago

The celebration of World Space Week in Trinidad and Tobago this year is to popularize WSW via the newspaper. We intend to inform them and encourage them to write about this Global Celebration. Also websites will be given for the nation to get an Internet experience of World Space Week.

### 3.6.5 United States

Nationwide

- The National Space Grant Foundation underwrote the Earth & Sky radio broadcasts world-wide on 4 Oct 2002 and 10 Oct 2002. The broadcasts, which referenced World Space Week, were heard on approximately 655 radio stations in the United States by approximately 1,310,000 listeners. The programs were also broadcast around the world on Voice of America (6 times daily), American Forces Radio and World Radio Network to potentially several million additional listeners. We will be repeating the underwriting for this program next year.
- The GLOBE Program invited its schools to once again celebrate World Space Week, and we are planning a Web Chat on October 10 from 1500-1600 UT entitled "GLOBE Data: Contributing to Satellite Missions from Below." Information on this can be found at [www.globe.gov](http://www.globe.gov).
- The National Space Society is doing a 'Letters-to-the-Editor Campaign'. It challenges all Space enthusiasts to write a letter in support of the space movement to the Editor of their local newspaper, magazine or any national newspaper and have the letter printed during World Space Week. For each letter submitted the participant will be entered in to a grand prize drawing to win an all expenses paid trip to the National Space Society's ISDC 2003. For more info visit [www.nss.org](http://www.nss.org) and click on 'Now More Than Ever: Sharing our Vision of a Spacefaring Society'

California

- Santa Clara County and Beyond -- Over 2,500 science teachers in Santa Clara County and adjoining communities received the World Space Week Teacher Kit, courtesy of Space Systems Loral. These materials will help the teachers use space to excite students about learning during World Space Week. Teachers are competing for up to \$10,000 in awards, including the Space Web Page design competition sponsored by Best Buy. Teachers anywhere in the world can participate by downloading the Teacher Activity Guide at [www.spaceweek.org](http://www.spaceweek.org).
- On October 5, the California Science Centers newly remodeled Air and Space Center will celebrate the United Nations World Space Week (entrance is free). Organized by the California Science Center, Space Generation Foundation, Yuri's Night, the USC Small Satellite Club and the Caltech Mars Society.
- 1:00- 2:00 pm- Explore the new Air and Space Exhibits with other Space Gen folk
- 2:00- 3:00 pm- Join us as Laura Woodmansee, author of the new book 'Women Astronauts', tells us about life on the front lines as a space activist/writer. We will also discuss what things we can do to make space cool in the coming months. In the Air and Space gallery theater (bottom floor- west side- unless you hear otherwise)

- 3:15 pm- Watch the new IMAX 3D movie Space Station- narrated by Tom Cruise.
- 4:00- 5:00 pm- Explore the new Air and Space Exhibits
- 5:30 pm- Descend on local eatery to meet the people you will end up going to Mars with. Or the people who will change the face of the aerospace industry forever. Plus beer! We will also trade all the latest space gossip and listen to your favorite space war stories.

#### Georgia

- The Museum of Aviation is planning a Young Astronauts' Day for Oct 19 with a former astronaut as a speaker and lots of space related activities for 5th grade. We are working on getting an exhibit from Marshall Space flight Center, and have comet models coming from JPL's space place.

#### Iowa

- The sixth-period 9th grade physics class at Turkey Valley High School in Jackson Junction won this year's Space Week Science Challenge, a contest open to all K-12 Iowa classrooms. The winning class, taught by Caroline Scheidel, will receive a Meade ETX Astro telescope and a Garmin e-TREX GPS receiver for their classroom and a field trip to the Science Station and IMAX Theatre in Cedar Rapids. The teachers at Turkey Valley High School won an in-service training session and curriculum materials from the Iowa State University Extension Service's Science, Engineering and Technology team. Meade ETX Astro telescopes also were awarded to the top classroom entries in two other categories. The 2nd-3rd grade talented and gifted classroom of Marilyn Hawkins at Mount Ayr Elementary won for category K-3, and the 4th-8th grade science classroom of Gary Bottorff at Lansing Middle School won for category 4-8. Contestants listened to special editions of the Earth and Sky radio program broadcast by WHO Radio in Des Moines during Space Week, October 4-10. Topics included the greenhouse effect, volcanoes, the moon and asteroids. Students then took a quiz based on the radio programs and supporting activities. Each of the 43 classrooms that entered the contest will receive a classroom space travel kit from Team Encounter. The number of entries for the competition has doubled since last year. Corporate contest sponsors were WHO Radio and the Earth and Sky radio program. The Iowa Space Grant Consortium is a NASA-supported organization aimed at increasing interest in aerospace education and research. Its academic members are the University of Northern Iowa, Iowa State University, the University of Iowa and Drake University.

#### Maryland

- Education Office, NASA Goddard Space Flight Center -- World Space Week Educational Materials available on Internet <http://education.gsfc.nasa.gov>
- Prince George's County Council Proclamation -- Tuesday, September 24. 9:15 a.m. County Administration Building, 14741 Governor Oden Bowie Drive, Upper Marlboro, MD
- Free Public Planetarium Program, "There's No Place Like Home" -- Friday, October 4, 7:30 p.m., Howard B. Owens Science Center, 9601 Greenbelt Road, Lanham, MD (Space limited to 160 seats)

- "Prince George's County Space and Flight Center", Release of Feasibility Study Findings -- Monday, October 7 (time to be announced), Prince George's County Economic Development Corporation, 4640 Forbes Blvd., Suite 200, Lanham, MD
- Eleanor Roosevelt High School -- Assembly and Career Panel, facilitated by NASA Goddard Education Office, Tuesday, October 8, 10 a.m.-noon, 7601 Hanover Parkway, Greenbelt, MD
- Prince George's County School Board Proclamation -- Thursday, October 10, 7 p.m., Sasser Administration Building, Upper Marlboro, MD

#### Massachusetts

- Mars Week 2002, a three-day conference about the exploration of Mars, will be held at the MIT campus in Cambridge on October 4-6. Mars Week is an annual conference discussing the engineering, scientific, political and social aspects of Mars exploration. Topics will include present and future missions, including the prospects for the human exploration and settlement of the Red Planet. The student-run conference is organized by the MIT Mars Society, a chapter of the Mars Society, an international organization founded in 1998 to further the goal of human space flight to Mars through public outreach and technical research. For further information, please refer to our web page: <http://web.mit.edu/mars/www/marsweek02/>

#### New York

- A conference on "Space Technology for Developing Nations, October 4, 10 AM - 5 PM with reception following. New York University (32 Waverly Place, room to be announced. There will be five panels of roughly 1 or 1.30 hours each. The conference is co-sponsored by SpaceEquity.com & the NYC Chapter of the National Space Society (NSS/NYC) with participation from the U.N. and the World Bank. For more info: <http://www.nssnyc.org>
  - Panel 1 - Precision Agriculture (GPS Farming)
  - Panel 2 - Remote Sensing (Joanne Gabrinowitz may moderate this one. Joanne is the Director of the National Remote Sensing and Space Law Center, University of Mississippi School of Law)
  - Panel 3 - Distance Learning (RS Bhatia from the Indian Embassy will participate)
  - Panel 4 - Telecommunications & the digital divide.
  - Panel 5 - Space Technology and the future of humanity as a whole (moderated by Taylor Dinerman of SpaceEquity.com)

#### Pennsylvania

- The North Museum of Natural History and Science in Lancaster, PA plans to become a participant in World Space Week 2002. We are planning a series of speakers and



programs on the weekend of October 5 and 6, 2002 that address the theme 'Space and Daily Life'.

Texas

- The World Space Congress in Houston begins on October 10. It combines the annual meetings of world space engineers and scientists into a congress of historic proportions. See [www.aiaa/wsc2002](http://www.aiaa/wsc2002) for associated events that are planned.
- The Concho Valley Partnership represents 22 Independent School Districts in West Texas. We have distributed World Space Week Information to all of our 22 ISDs. We will have a World Space Week Orientation through the distance learning lab on September 25, 2002 from 3:45 to 5:00. This will be a 'pep rally' to get everyone excited about participating in World Space Week. Teachers at the participating ISDs will then complete activities during World Space Week.

## 4 Recommendations

To increase its success in attracting global attention to the benefits of space, World Space Week (WSW) needs to attract greater media coverage. Greater coverage can result from greater participation in the event. In this context, the recommendations below are presented for consideration by both government and non-government organizations:

1. Schedule Events During World Space Week Annually. Organizations are encouraged to make World Space Week the central timeframe of their annual outreach and education programmes. Participation can be as simple as rescheduling planned events and programmes to occur during 4-10 October and incorporating “World Space Week” into the event name and publicity. This can be done with no additional resources and yet be very effective in increasing the global visibility of World Space Week.

2. Support World Space Week Coordination. It is recommended that organizations support the global and national coordination of World Space Week. The global network of WSW coordinators encourages organizations to celebrate WSW and facilitates the flow of WSW information. Coordinators need greater resources to expand the celebration and media coverage of WSW. To this end, the following steps are recommended:

- Provide voluntary contributions or in-kind support for WSW to UN OOSA, Spaceweek International Association, and/or national coordinators. A new affiliation program provides recognition to supporters – see [www.spaceweek.org](http://www.spaceweek.org) .
- Sponsor focused programs such as distributing educational materials to teachers to use during WSW, providing awards to encourage WSW participation, arranging special events during WSW, and providing WSW materials to developing nations. For further information, please contact Spaceweek International Association.

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**World Space Week**

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