



**APSCO**

ASIA-PACIFIC SPACE COOPERATION ORGANIZATION

# **Introduction of the Organization and It's Space Cooperative Activities**



- ***About the Organization***
- ***Space Activities and Cooperation***
- ***International Communications***



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## *The Initial Proposition-1992*

In the November of 1992, the *Asia-Pacific Workshop on Multilateral Cooperation in Space Technology and Applications* was held in Beijing.

China, Pakistan and Thailand proposed the institutionalization of the mechanism which was agreed by the participants from 16 Asia-Pacific Countries.





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## *The Signing of Convention-2005*

On October 28th of 2005, the *Signing Ceremony of APSCO Convention* was held in the Great Hall of the People, Beijing. 8 countries in Asia-Pacific Region signed the Convention, which included **Bangladesh, China, Indonesia, Iran, Mongolia, Pakistan, Peru and Thailand.**



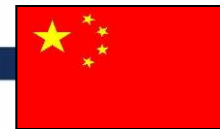
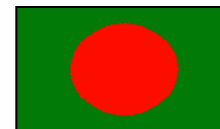


# APSCO

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On June 1st of **2006**, the representative of *the Government of Turkey* signed the APSCO Convention in Beijing.

9 Signatory Countries.





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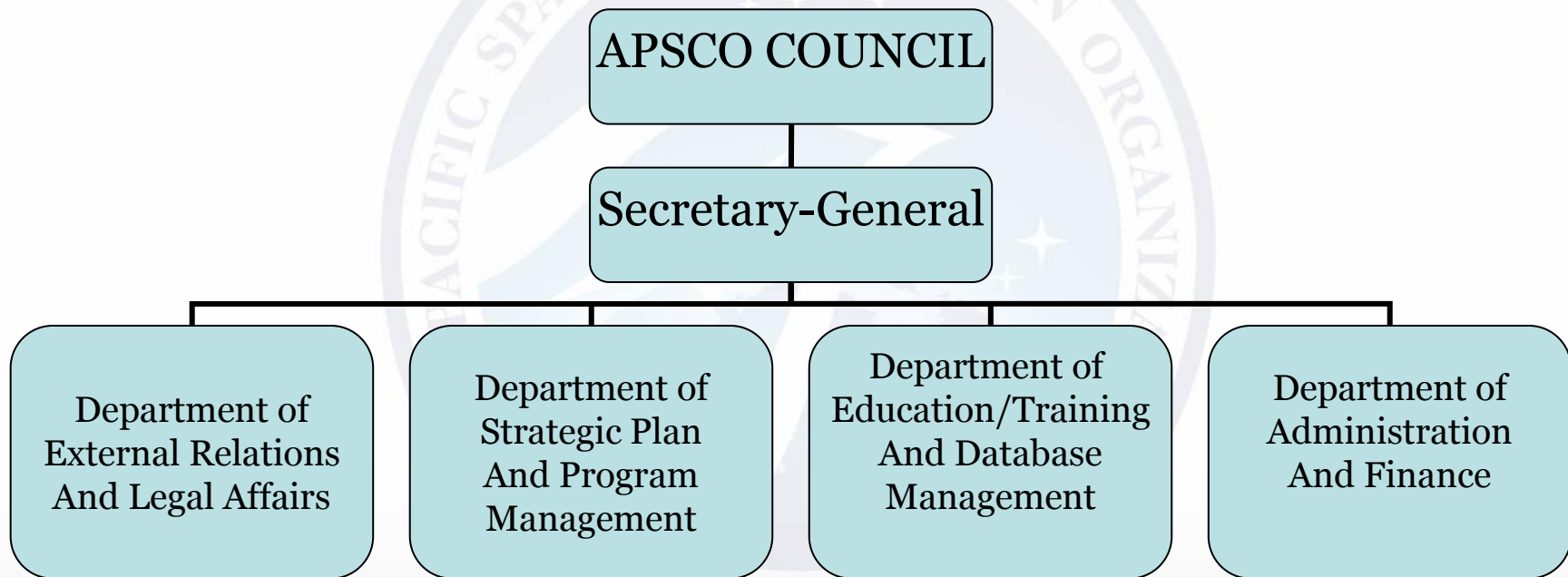
## *The Establishment of APSCO-2008*

- On December 16th of 2008, the Inauguration Ceremony of APSCO was held in Beijing, China.





## *The Structure of APSCO*





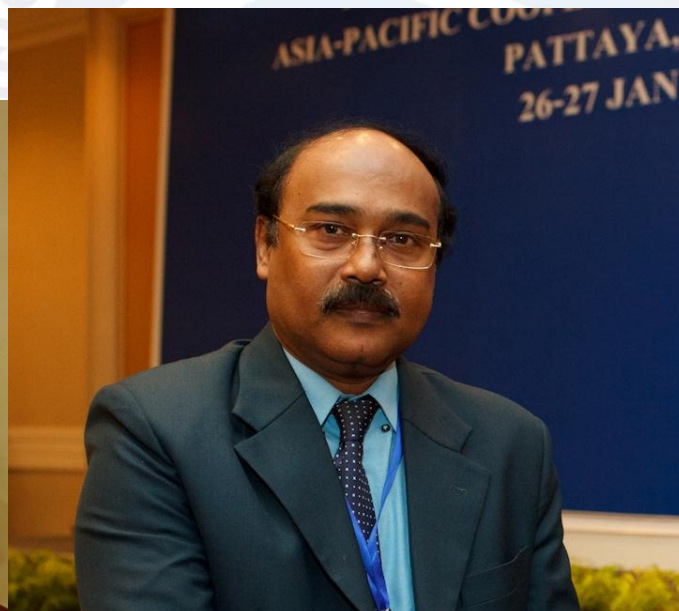
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## The Chair-board of APSCO Council

**Chairman of the Council:** Mr. Khondaker M. Asaduzaman (Bangladesh),  
**Vice-Chairmen of the Council:** Mr. Chen Qiufa (China),  
Mr. Hamid Fazeli (Iran).



Mr. Chen Qiufa (China).



Mr. Khondaker M. Asaduzaman (Bangladesh)



Mr. Hamid Fazeli (Iran)





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## The Secretariat



### Secretary-General:

Dr. Zhang Wei (China)



### Director-General of Departments:

Mr. Ahmad Talebzadeh (Iran)

Dr. Maqbool Ahmed Chaudhry  
(Pakistan)

Mr. Tsoodol Nyamkhuu  
(Mongolia)

Ms. Liu Xiaohong (China)



## *Current Status of APSCO*

- **International Recognition**

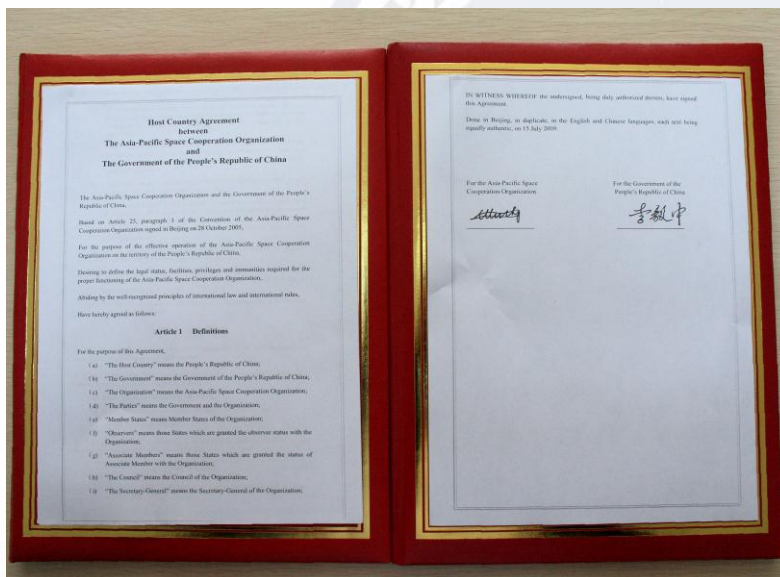
APSCO is drawing more international attention. It has been granted as a *permanent observer* by the United Nations Committee on the Peaceful Uses of Outer Space (UN-COPUOS) on the 52nd Session of Committee meeting in Vienna, on 12 June 2009.





## Current Status of APSCO

- Host Country Agreement



Dr. Zhang Wei, Secretary-General of APSCO and Mr. Li Yizhong, Minister of Ministry of Industry and Information Technology of China signed the **Host Country Agreement** on 15 July 2009 in Beijing, China.



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# Headquarters

In November of 2009, APSCO moved into its new headquarters office building, which is located in Beijing and donated by Chinese Government.





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## Member-State Space Achievements Exhibition



The Exhibition of Member State Space Achievements was held at the APSCO Headquarter from December 2009.



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# The 1<sup>st</sup> Council Meeting of APSCO

December 17<sup>th</sup> -18<sup>th</sup>, Beijing, 2008





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# The 2<sup>nd</sup> Council Meeting of APSCO

December 17<sup>th</sup> -18<sup>th</sup>, Beijing, 2009





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# The 3<sup>rd</sup> Council Meeting of APSCO

September 16<sup>th</sup> -17<sup>th</sup>, 2010

THE THIRD MEETING OF THE COUNCIL OF  
ASIA-PACIFIC SPACE COOPERATION ORGANIZATION (APSCO)  
16-17 SEPTEMBER 2010  
BEIJING, CHINA



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亚太空间合作组织







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# The 4<sup>th</sup> Council Meeting of APSCO

January 26<sup>th</sup> -27<sup>th</sup>, Pattaya, 2011





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# ***Space Activities and Cooperation***





## • **Article 6 of the Convention of APSCO**

- **Space technology** and programs of its applications;
- **Earth observation**, disaster management, environmental protection, **satellite communications** and **satellite navigation and positioning**;
- **Space science research**;
- **Education, training** and exchange of scientists/technology;
- **Establishment of a central data bank** for development of programs of the organization and dissemination of technical and other information relating to the programs and activities of the Organization.
- **Other** cooperative programs agreed upon by the Member States.



## • **Education and Training Program**

- Training Course on **Remote Sensing Technology and Applications** for Mongolia / Indonesia held in May 2005, Beijing .
- Training Course on **Satellite Technology and Spacecraft Project Management** held in June 2005, Beijing.
- Training Course on **Reception Stations of FY Satellite Data Broadcasting System (DVB-S)** held in July 2006 in Beijing.
- Training Course on **Space Technology Applications** held in 2007, Peru.
- **Nine-Month Master Program on Space Technology Applications** held from 10 July 2006 to 10 April 2007, Beijing.



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Training Course on:  
Data Processing and Applications on Remote Sensing Satellite  
May 11-22, 2009, Beijing





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## Training Course on GNSS and its Applications

June 4-22, 2010, Beijing

Co-sponsored by Ministry of Industry and Information Technology (MIIT) of China  
organized by Peking University





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## Master Program on Space Technology Application (MASTA 2008 and 2010) for APSCO Member States

APSCO supported by The Beihang University of China jointly hold the Master Program on Space Technology Application, which starts from September 2010. (Graduation Ceremony of MASTA 2008)





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# Workshop/Symposium

## The First International Symposium on Space Cooperation for the Asia-Pacific Region July 20-24, 2009, Thailand







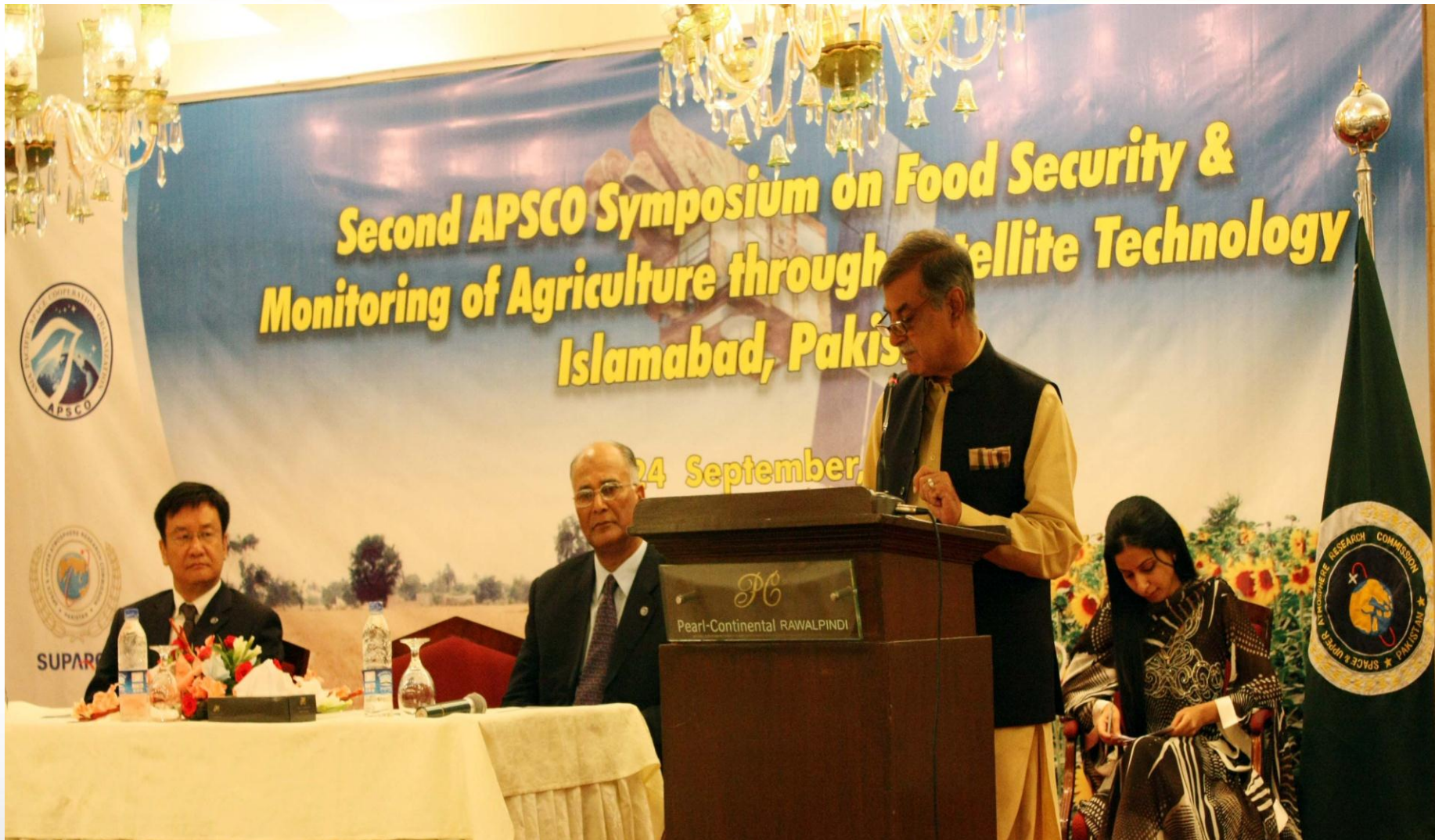
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# Workshop/Symposium

**Second APSCO Symposium on Food Security &  
Monitoring of Agriculture through Satellite Technology**  
Islamabad, Pakistan

24 September

PC  
Pearl-Continental RAWALPINDI





## •Space Cooperation - DVBS

Donation Ceremony of Reception Stations of FY Satellite Data Broadcasting System (DVBS) to 7 Signatory States to APSCO Convention by the Chinese Government was held on 24 March in Beijing .





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## •Space Cooperation - SMMS

On September 6th of 2008, 30 delegates from 9 Signatory States witnessed the **Launch of the Environment and Natural Disaster Monitoring Satellite (HJ-A, also named as Small Multi-Mission Satellite )** at Taiyuan Launching Center.





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## • Space Cooperation - Ground Station in Thailand



- On 21 December 2009, under the Cooperation Framework of APSCO, Center for Resources Satellite Data and Applications (CRESDA) signed the agreement with the Government of Thailand, to build the Receiving Station of SMMS Satellite in Bangkok.



## • **Projects approved by the Council Meetings**

- (1) Establish the Spatial Data Sharing Service Platform and Its Application Pilot Project;
- (2) Proposal for APSCO Applied High Resolution Satellite Project;
- (3) Research on Atmospheric Effects on:
  - (i) Ka Band Rain Attenuation Modeling;
  - (ii) Ionosphere Modeling through Study of Radio Wave Propagation and Solar Activity;
- (4) Development of Asia-Pacific Ground Based Optical Space Objects Observation System (APOSOS);
- (5) Feasibility Study of the Applications of Compatible Navigation Terminal System;
- (6) Short-term Training Course on Satellite Technologies
- (7) Telecommunication Satellites
- (8) Small Student Satellites joint development among University of MS



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# Space Cooperation – The feasibility study of projects by experts of MS



# APOSOS Network Distribution of Observatory Stations





## More activities in near future

- Development Plan and Education and Training Plan
- Study of the Training and Education Center of APSCO
- Study of the Asia-Pacific Research Center of Space Law
- MASTA Program of Degree Education for more than 30 students in 2011-2012
- Four training courses in remote sensing and communications fields in 2011 and 2012
- The Third International Symposium of APSCO in 2011, on Monitoring/ Early Warning of Earthquake from space
- UN/ESCAP Secretariat of Drought and Flood Disaster Early Warning Program





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# International Communications





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## International Communications



- On 1 September 2009, LAPAN Delegation from Indonesia visited APSCO.
- Discussion on Long-Distance Education by using Satellite.
- Technical visits arranged by APSCO.



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## International Communications

- APSCO Delegation visited LAPAN, Indonesia during December 1-6, 2009.
- Mr. Bambang Teja Sukmana, the Deputy Chairman of LAPAN received the delegation.
- Visit to the space-related facilities.





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## International Communications

- During November 8-11, 2009, Dr. Zhang Wei attended UN/APSCO/IRAN workshop on Space Law “Role of Space Law in the Development and Strengthening of International and Regional Cooperation of Status in the Peaceful Exploration and Use of Outer Space” in Tehran.

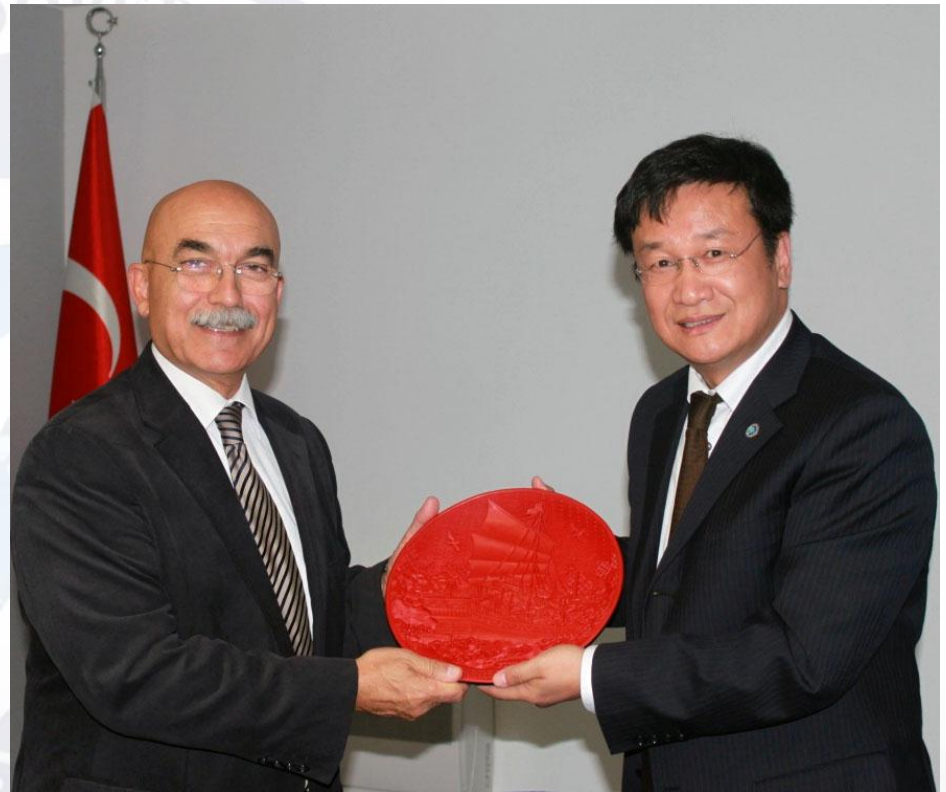




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## APSCO Visit Turkey

- 2010/10/11 to 2010/10/15, Dr. Zhang Wei, Secretary-General of APSCO headed the delegation paid a successful visit to TUBITAK UZAY, TUBITAK Headquarter and Istanbul Technical University in Turkey.

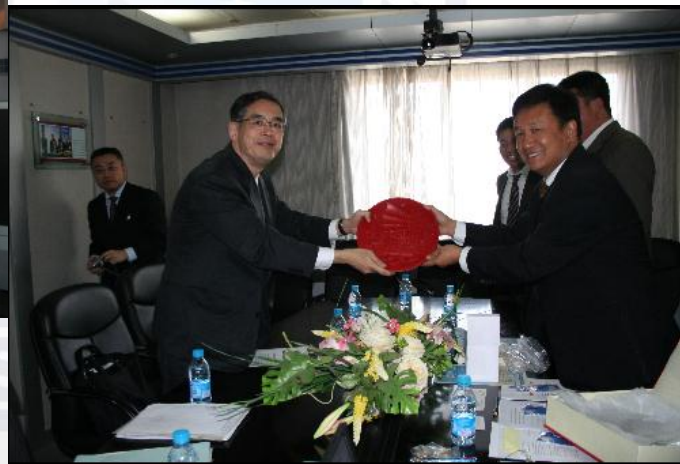




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## International Communications

On October 19 of 2009, APSCO received a delegation from Japan Aerospace Exploration Agency (JAXA), which was headed by Vice President Mr. Yukihide Hayashi.





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## International Communications



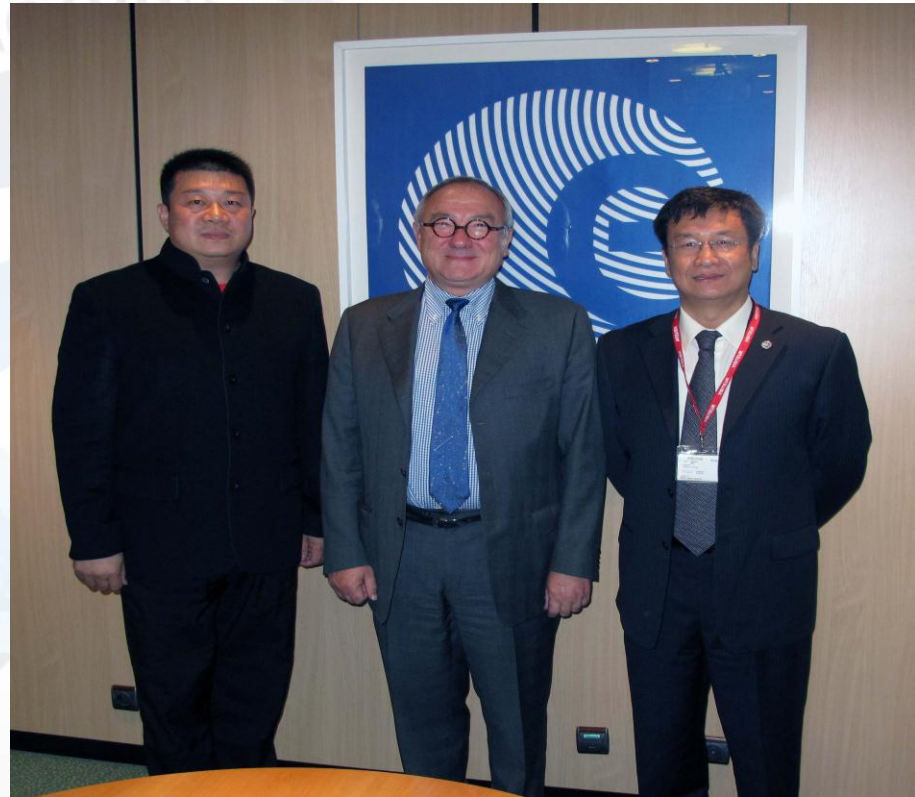
- On 29 October 2009, ESA Deputy Director General for Earth Observation and Director of ESRIN Dr. Liebig visited APSCO



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## APSCO visits ESA

- On 24th of September, 2010, APSCO delegation headed its Secretary-General Dr. Zhang Wei visited Paris and the ESA Headquarter for an official meeting with the ESA Director General Mr. Jean-Jacques Dordain.

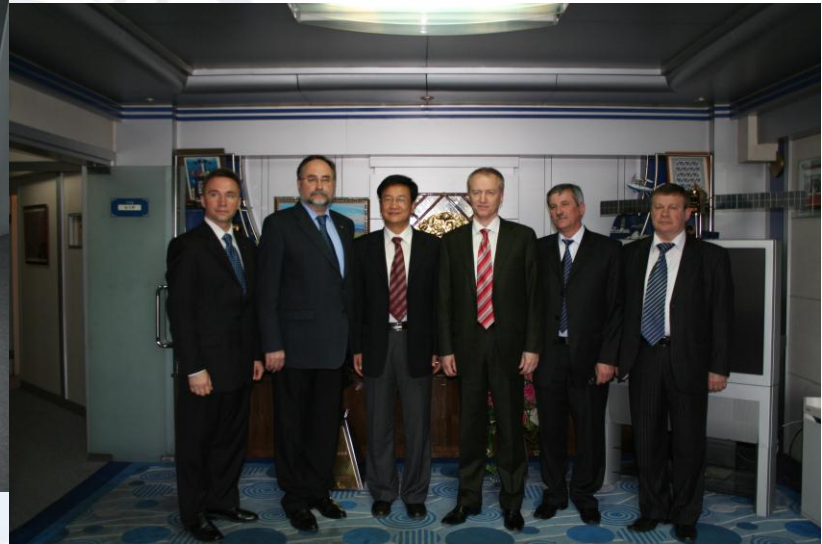






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## International Communications



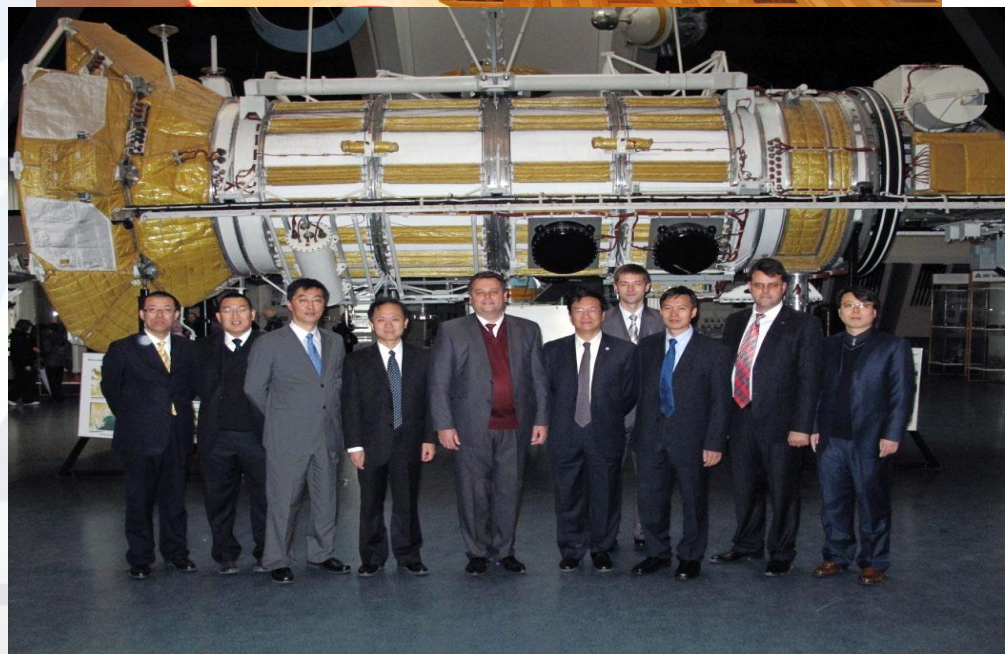
- Mr. O. Zinchenko headed his Ukraine National Space Agency Delegation visited APSCO, on 14 April 2009.



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# APSCO Visit Ukraine

- 2010/10/08 to 2010/10/10, Dr. Zhang Wei, Secretary-General of APSCO headed the delegation paid a successful visit to NSAU and YUZHNOYE in Ukraine.





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# The Federal Space Agency of Russia



Meet with the President

Representatives from Beijing Office





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## MEET WITH NASA



The International Astronautic Federation (IAF) Congress of 2010 was held in Prague, Czech Republic during September 27 to October 1.



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## APSCO meets with UN-ESCAP



- On February 1, 2010, Mr. Xuan Zengpei, Director of ICT and Disaster Risk Reduction Division of United Nations Economic and Social Commission for Asia and the Pacific (UN/ESCAP) and Mr. Wu Guoxiang, Chief of Space Application Section of ICT (UN-ESCAP) visited APSCO headquarter in Beijing and held productive discussion with APSCO.



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# UN-OOSA Director Visited APSCO

Dr Mazlan Othman, Director, UN-Office for Outer Space Affairs visited at 9<sup>th</sup>, Nov, 2010 the APSCO Headquarter and had meeting with Secretary General of APSCO and International Staffs and discussion about future cooperation.

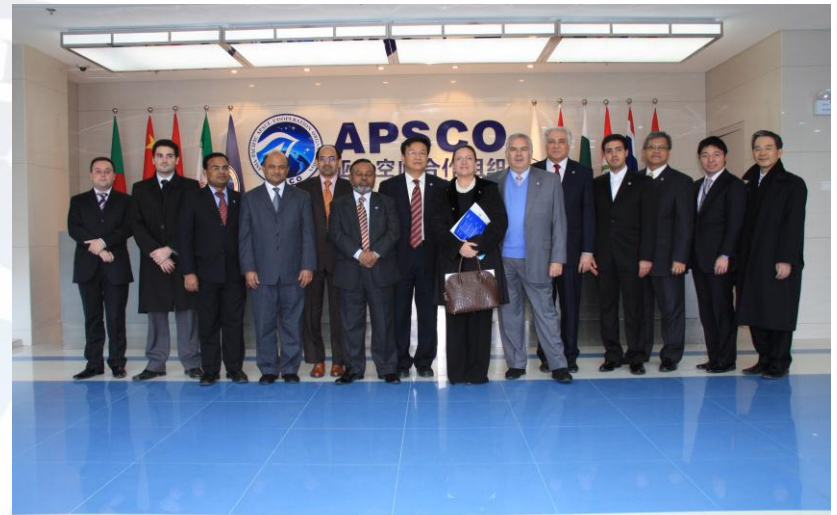




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## APSCO Orientation Tour

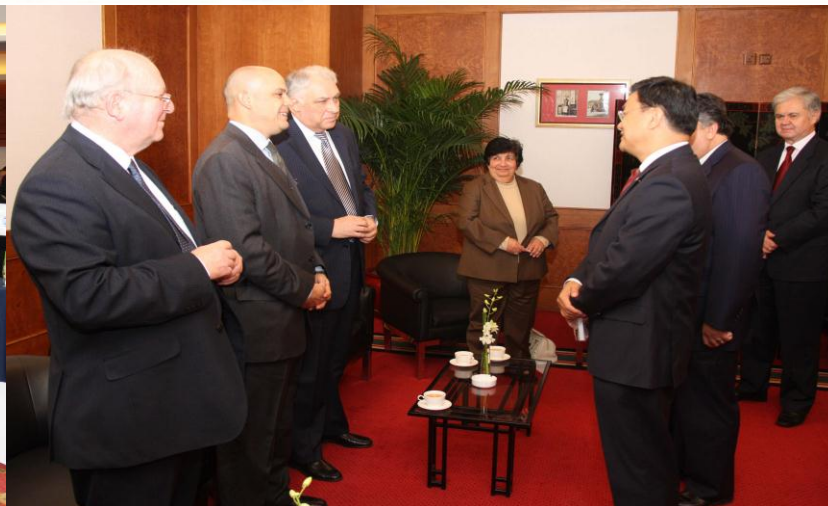
- On 12 January 2009, 13 relevant countries' diplomats were invited for a visit of APSCO facilities and briefing.
- Ambassador of Bangladesh, Columbia and Ukraine honored this event.
- Diplomats from Japan, Korea, Brazil
- All potential countries are welcome to join APSCO and its activities!





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# APSCO 2011 New Year Reception



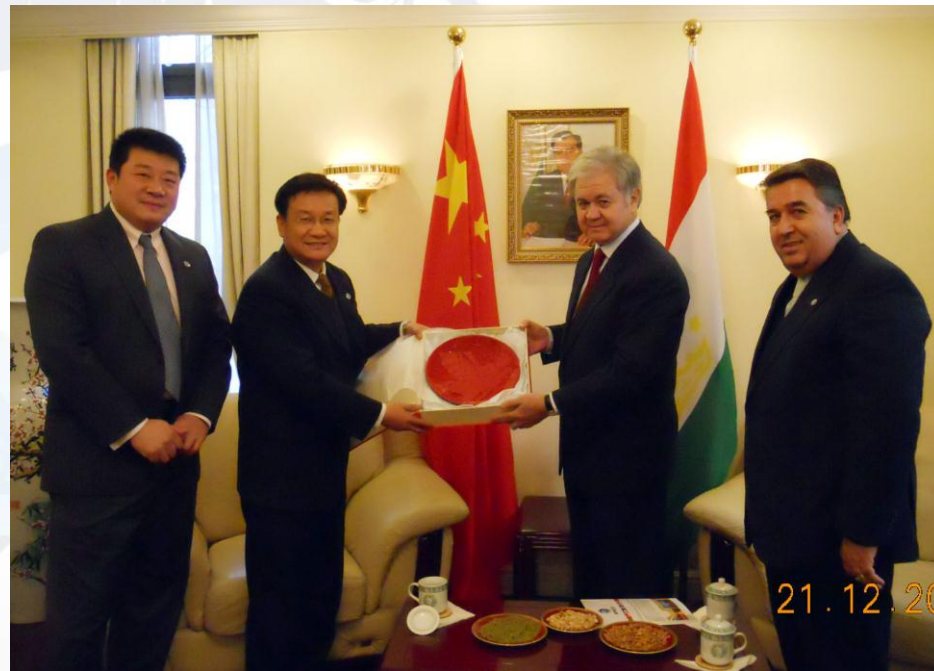




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## APSCO Visits Tajikistan Embassy

- On December 21, 2010, APSCO visited Tajikistan Ambassador in Beijing. Dr. Zhang Wei, expressed willingness that substantial cooperating could take place between the two sides.





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## Leiden University visits APSCO



- On January 12, 2011, Prof. Tanja Masson-Zwaan, President of International Institute of Space Law and Deputy President of School of law of Leiden University, visited APSCO Headquarters in Beijing.



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## Minister of MIIT of China Visits APSCO Headquarter

- On February 17, H.E. Miao Wei, Minister of Industry and Information Technology (MIIT) of China visited APSCO and greeted APSCO Staff.
- As the host country, Chinese Government will fulfill its due obligations in a highly responsible way and provide more supports to assist the smooth operation of this newly organization.





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## APSCO Delegation Visits South America

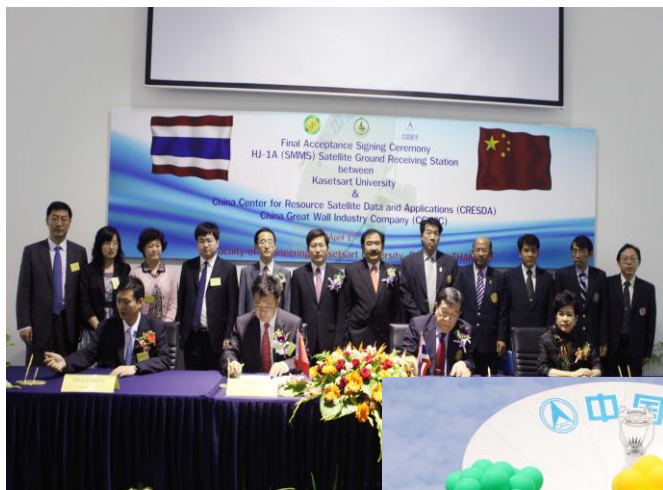
- From March 1-12, Dr. Zhang Wei, the Secretary-General of APSCO and his delegation visited Peru, Chile and Brazil respectively and held discussions with government officials and space authorities of these countries for discussion on membership and possible participation of these countries to join APSCO projects.





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## SMMS cooperation



- On April 1st, 2011, the Opening Ceremony on SMMS (HJ-1A) Satellite Ground Receiving Station was held in Bangkok at Kasetsart University of Thailand.
- Representatives from APSCO, MIIT of China, RESDA, MICT of Thailand RESDA attended.



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## APSCO Data sharing service Platform Project

- 6 May 2011, APSCO Data Sharing Service Platform and its Application Pilot Projects Contract Signing Ceremony was held at APSCO Headquarter. It is the Priority and Pilot project approved by APSCO council, now under implement. It unveiled a new page of APSCO.





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# Organization Expansion



- Regional space agency;
- Regional oriented space program for social and economical benefit;
- Member country capacity building and data sharing;
- Pooling of human and financial resource;
- Sharing of infrastructure and avoid duplications;
- Prominent international statues in space community;
- More substance to other regional mechanism such as APEC, SCO, APRSAF, ASEAN and ESCAP, SCO;
- Inviting all countries in Asia Pacific to join APSCO!



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*Thank You !*