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Regional Centre for Space Science and Technology Education
in Asia and the Pacific (China) (Affiliated to the United Nations)

联合国附属空间科技教育亚太区域中心 (中国)





The cover picture is selected from works of "Poster Design Contest for China Space Day 2018".

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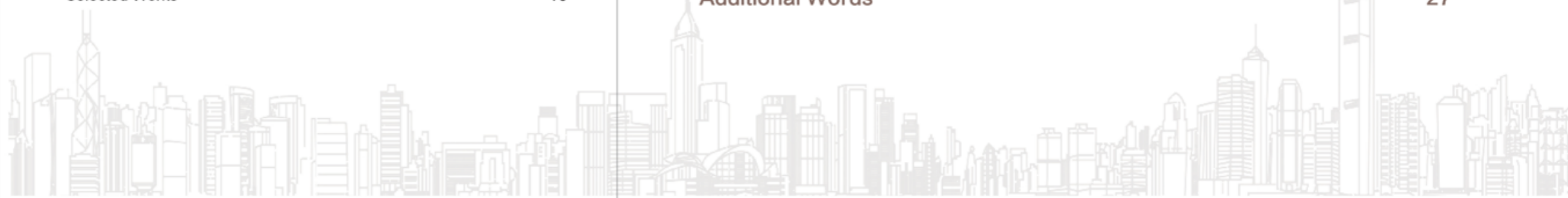
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A new era, a new journey

With the return of spring, everything comes back to life and everyone is refreshing with energy.

The Centre has passed its third year. In the past three (3) years, we have worked in concerted efforts to explore new areas and gain great achievements. Now we are facing a new subject - further development in the next three (3) years.

On February, during the 55th conference of the Committee on the Peaceful Uses of Outer Space (COPUOS), the United Nations Space Use Plan was valued and appreciated by all the Member States. The representatives agreed that "Programme on Space Applications" had contributed to promote the ability of using the space in each region. The representatives from Sri Lanka, Russia, Mexico, Indonesia and Nigeria thanked China, especially the Centre (RCSSTEAP) for its efforts in the international Space technology application education, and they hoped to further cooperate with the Centre in education and researches. This was a recognition of what we have done, and inspired us to work hard to reach our goal: promoting the peaceful use of Space technologies for the benefit of all humankind.

Under the guidance of President Xi Jinping's thought on socialism with Chinese characteristics for the new era, China has witness great changes. Good news came one after another in the area of aerospace: Satellites Gaofen-5 and Change -4 have been launched successfully; BeiDou Satellite began to form a global network, which would contribute to the countries and regions of "the Belt and Road" area by the end of the year and provide service to the whole world by 2020...All those above will bring new energy to international talent education for China Aerospace Engineering.

Despite of the numerous difficulties, we shall start a new journey as we are in the new era. Although the road ahead is long, we will stick to it.

Spring is the beginning of hope. The Centre will follow the idea of "Openness, Innovation, Inclusiveness", create new ways and methods of talent education, to better serve the Member States, cultivate more inter-disciplinary and high-level talents leveling space science and technology, and promote the popularization of the space technology application.

Editor

Written in Beijing

Special Focus

✧ Editor's note:

All this time, the Centre insists Space Technology Application program as its main content, continuously developing other training programs, to build up its international education brand. Furthermore, the Centre contributes a lot to culture construction: holding activities like "Journey of Chinese Aerospace Technology and Culture", "Poster Contest for China Space Day", etc., which have become the highlights of the Centre and gained appreciation from participants and all parts of society. This column concentrates on the educational development of the Centre, demonstrating highlight activities and showing stories of talent cultivation in the field of space science and technology.

Training on Space Cooperation for Global Health

✧ Overview

With the rapid development of space technology and applications, UNOOSA has attached increasing importance to "space cooperation for global health" and listed it as one of the thematic priorities of UNISPACE+50 Preparatory Activities in 2016 (thematic priority 5: Strengthened space cooperation for global health). In response to the implementation of "the Belt and Road Initiative" and UNISPACE+50, China National Space Administration (CNSA) and Chinese Academy of Sciences (CAS), Regional Centre for Space Science and Technology Education in Asia and the Pacific (China) (Affiliated to the United Nations) (RCSSTEAP) supported to organize a training on this topic to provide useful skills and knowledge to utilize Remote Sensing (RS) and Geographic Information System (GIS) for monitoring and assessing environmental public health. It is expected to help the developing countries, especially the Belt and Road countries, to improve their space application capacity in global health and promote international space cooperation.

The training was held from April 12th to 26th, 2018. Nearly twenty (20) experts from various institutions like CAS, Tsinghua University, Beihang University, Chinese Center for Disease Control and Prevention, SuperMap Software Co., Ltd. were invited to give lectures. Forty-three (43) participants from seventeen (17) countries (Bangladesh, Bolivia, Ethiopia, India, Iran, Italy, Madagascar, Mongolia, Nepal, Nigeria, Pakistan, Peru, Philippines, Russia, Tanzania, Venezuela, Zambia) participated in the training.

✧ Opening Ceremony

On April 12th, the opening ceremony was held at Beihang University. Representatives from China National Space Administration (CNSA), Bureau of International Cooperation of China Academy of Science (CAS), Red Cross Society of China, Geographic Sciences and Natural Resources Research of CAS, Beihang University, the Geographical Society of China, etc., and all participants of the training were in attendance. The ceremony was hosted by Mr. Zhuang Dafang, Professor of Institute of Geographic Sciences and Natural Resources Research, CAS. Mr. Xu Yansong from CNSA, Mr. Liao Xiaohan from CAS, Mr. Weng Jingnong from RCSSTEAP, Mr. Burguillos Fajardo Carlos Alberto, one participant representative, delivered welcoming speeches.



※ Experts

Nearly twenty (20) experts from various institutions like Chinese Academy of Sciences (CAS), Tsinghua University, Beihang University, Chinese Center for Disease Control and Prevention, SuperMap Software Co., Ltd. were invited to give lectures.

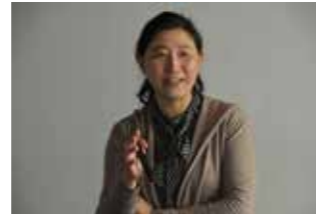
It covered various fields including the application of RS&GIS in public health, theory and model; environment and health big data, ARCGIS and Supermap software latest features and applications; GIS development for Emergency management and decision-making support in public health field, etc.



SuperMap Software Co., Ltd.
Zhang Xin



Beihang University
Weng Jingnong



Chinese Center for Disease Control and Prevention
Qi Xiaopeng



University Thomas
Krafft Maastricht



Tsinghua University
Cheng Feng



Tsinghua University
Gong Peng



Institute of Geographic Sciences and Natural Resources Research, CAS
Chen fei



Institute of Geographic Sciences and Natural Resources Research, CAS
Dai Erfu



Institute of Geographic Sciences and Natural Resources Research, CAS
He Jianfeng



Institute of Geographic Sciences and Natural Resources Research, CAS
Ji Wei



Institute of Geographic Sciences and Natural Resources Research, CAS
Liu Chuang



Institute of Geographic Sciences and Natural Resources Research, CAS
Wang Jinfeng



Institute of Geographic Sciences and Natural Resources Research, CAS
Wang Juanle



Institute of Geographic Sciences and Natural Resources Research, CAS
Wang Wuyi



Institute of Geographic Sciences and Natural Resources Research, CAS
Xu Chengdong



Institute of Geographic Sciences and Natural Resources Research, CAS
Zhang Wen



Institute of Remote Sensing and Digital Earth, CAS
Zhao Limin

RCSSTEAP

※ Technical Visit

Organized by Institute of Geographic Sciences and Natural Resources Research of CAS and RCSSTEAP, the participants visited Institute of Geographic Sciences and Natural Resources Research, CAS, Institute of Remote Sensing and Digital Earth, CAS, PIESAT Information Technology Co., Ltd. during the training. The participants had a more intuitive and in-depth understanding of land-based water resources circulation, China's geographical resource development, water conservancy and environmental protection, disaster reduction and emergency response.



※ Closing Ceremony

On April 25th, the closing ceremony was held at Harbin Institute of Technology. Krishnamurthy Ramesha, senior expert of WHO, Shirish Ravan, senior program officer of UNOOSA, Ms Jiang Hui, Division Director for International Cooperation System Engineering Department of CNSA, Mr. Weng Jingnong, Executive Director of the Centre and Dean of International School, Beihang University, awarded completion certificates to the participants.

The participants were also invited to attend the activities of China Space Day, which focused on space industry policy, technology development and frontier issues.



※ Volunteers' Words



My experience over the past few days as a volunteer in International Training on Space Cooperation for Global Health had been remarkably outstanding. I always enjoy the work of a volunteer, because through this I always get the chance to help people, interact and get along with them. For this volunteer work, I was responsible for broadcasting important instructions and messages to the participants, like their daily attendance, their accommodation, refreshment during the lectures and so on. Moreover, as the leader of the volunteers, it was also my duty to communicate with the other volunteers and make plan for the next day.

Overall, the volunteer work was quite challenging and of course needed dedication and punctuality. And I tried my best to do necessary coordination between the teachers and every participant. I had a good control on my nerves because volunteer work mostly required patience and persistence since you have to communicate and get everyday tasks done by every international participants who are from multicultural background. It was amazing for me doing this work for few weeks. I enjoyed the company of multicultural people from various countries and made some good friends and memories. I was also a participant of this training, so it helped me to know about some new topics and increased my level of understanding. With the knowledge and the experience gained, it would certainly benefited for my future. I am thankful to Beihang University, the Centre, and the organizers of this training for giving me the opportunity to learn, improve and apply my interpersonal skills to fulfill this volunteering job. It was a life time experience and I look forward to such opportunities in near future.

Muhammad Arsalan
Pakistani
GNSS

MASTA 2017



Fortunately, I got the opportunity to be a volunteer in this training program. As a volunteer, it was easy to coordinate with all of the participants that helped me to build up a good relation with the international friends. During this training, my responsibilities were to take lectures from the teachers, daily classroom maintenance and helped the participants for their needs and wants. As a result, I found so many good friends. Among the participants, one of them called me "Munni" that was used to address younger sister in their country who did her best to be nice to everyone and run around graining all the time. So day after their loves, cordial supports and heartfelt thanks made me happy.

For me, volunteering isn't a choice, it's a responsibility. This duty becomes a most notable part at the diary of my life in China.

Nilufa Akhtar
Bangladeshi
RS&GIS

MASTA 2017



I have to say that personally it was a challenge and a unique experience to record the different expressions of friendship, solidarity and fraternity experienced throughout the development of the course from a different angle and perspective through the camera. Since in the same not only photos were recorded but it was necessary to capture the expressions of the participants, the concerns, motivation, and demonstrated optimism. I am really happy to have been able to register and get to know the organizers, participants and exhibitors behind the camera.

My work as a volunteer demanded time and all necessary attention to achieve an adequate and optimal result for more than 14 days in a continuous and uninterrupted manner.

David Sustach Garcia
Bolivian
GNSS

MASTA2017

Journey of Chinese Aerospace Technology and Culture 2018

※ Editor's note

The Journey of Chinese Aerospace Technology and Culture 2018 begun in March 2018. As an extending of the traditional class, the activity will focus on the leading development of the Space Science, bringing the knowledge acquired in class into practice. By holding activities like academic lectures, technical visits, and student forums, the activity will help the students deepen their understanding of knowledge, enrich their extracurricular life, and inspire their spirit of questioning, exploring and creating.

※ The 1st Stop **RADI & HIST**

On March 21st, 2018, Journey of Chinese Aerospace Technology and Culture 2018 began, and participants of the Centre went to Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences (RADI) and International Centre on Space Technologies for Natural and Cultural Heritage under the Auspices of UNESCO (HIST) for a visit.

Firstly, under the guidance of the staff from HIST, the participants watched two videos named "Digital Earth Science" and "Space Technologies for World Heritage" with 3D glasses. The amazing 3D technology of the videos impressed all participants, and the rich content of the video also stimulate participants' interest in using space technology on natural and cultural heritage preservation.

Then, the participants visited the Digital Earth platform, Airborne Satellite Remote Sensing Centre, Satellite Operation and Management Department, etc. With the throughout explanation of the experts, they got a better understanding of the relationship between the theoretical knowledge and cultural heritage protection.



Finally, Prof. Hong Tianhua, Secretary General of HIST, and Prof. Natarajan Ishwaran, State Specially Recruited Expert of China at HIST, demonstrated excellent presentations. Prof. Hong Tianhua gave a detailed introduction about HIST from the development of history, mission, scientific research achievements, etc., and also welcomed all participants from the Centre to actively join in related events and conferences organized by HIST. Prof. Natarajan Ishwaran mainly discussed the applications of space technologies for world biosphere reserves and efforts that UNESCO made to protect the natural environment.

Participants' interest in using space technology to protect the world's natural and cultural heritage continued to grow with the discussion going into depth. They asked two professors and other working staff about the latest research and technology on natural and cultural heritage preservation, and possible training and intern opportunity in HIST. After the visit, many participants said that this visit was of great importance as it made them realize that the application of space technology was so extensive. They hoped to make a contribution to heritage protection someday in the future with their solid professional knowledge.

※ The 2nd Stop: National Time Service Center

Like every year, this year, the Centre also arranged a four-day trip to Xi'an. Xi'an is a city often be called as the birthplace of Chinese civilization. It is a capital of Shaanxi Province, eastern end to the Silk Road and the home to Terra-Cotta Warriors, one of the "Eight Wonders" in the world.

Soon after we arrived at Xi'an (Day 1), we went to see the Bell Tower which is a symbol of the city and one of the grandest of its kind in China. We then visited the Muslim Street where we enjoyed delicious Chinese cuisines and unique souvenirs/local products.

The next day (Day 2), we visited the National Time Service Center (NTSC), Chinese Academy of Science (CAS), a national-level base-type research institute doing the tasks of national standard time generating, keeping and transmitting. NTSC undertakes the task to generate, maintain and transmit the national standard of time-frequency, and operates a national major scientific infrastructure – the long and short wave time service system.

During the visit to NTSC, we gained knowledge about how the National Standard Time kept by NTSC, which had high stability and accuracy. It can test and evaluate the atomic clock in different location through the technology of remote time comparison. We also learnt how to generate and maintain Time and Frequency standards, synchronization between Universal Coordinate Time (UTC) and BeiDou Time (BDT). Later on, we went to see the Time Science Museum which was unique of its kind. We witnessed many important historical facts and achievements regarding Time in that museum.

Overall, the visit to the National Time Service Center (NTSC), Chinese Academy of Science (CAS) was very informative for us because most of the things we studied in the MASTA Course "GNSS Reference System" were recalled and we were lucky enough to gain practical knowledge through this visit.



The following day (Day 3), we visited the famous Terra-Cotta Warriors, an international symbol of China's history as well as a UNESCO World Heritage Site, and reproduces the mega imperial guard troops of Emperor Qin Shi Huang.

On the same day, we also visited the Big Wild Goose Pagoda and the Square, a Buddhist pagoda located in southern of Xi'an City. One of the pagoda's functions was to hold sutras and figurines of the Buddha that were brought to China from India by the Buddhist translator and traveler Xuanzang. The pagoda currently stands at a height of 64m (210 ft) tall and from the top it offers views over the city of Xi'an.

On the last day (Day 4), we visited the Small Wild Goose Pagoda and the square, another significant pagoda in Xi'an. The pagoda stood 45 m until the earthquake occurred in 1556, which shook the pagoda and damaged it so that it now stands at a height of 43 m.

There by, we took an interesting class of "Chinese Calligraphy", literally "Beautiful Writing". In China, from a very early period, calligraphy was considered not just a form of decorative art; rather, it was viewed as the supreme visual art form and a leisure activity for upper class tier/families.

Special Note of Thanks

All in all, I would like to say, it was an excellent study trip to Xi'an where we not only gained knowledge and exposure to technical sites but also enjoyed the well preserved history of China. Lastly, we would like to say a note of "Thanks" to all our teachers and International School, Beihang University for arranging this wonderful Study Trip for us.

Muhammad Arsalan
Pakistani
GNSS
MASTA 2017

※ The 3rd Stop: National Disaster Reduction Center of China

During March 22nd to March 25th, the Centre organized a technical visit to National Disaster Reduction Center of China (NDRCC). Participants from 2017 MASTA & DOCSTA Program enjoyed this technical visit, and wrote about this meaningful and interesting visit. Here are some excerpts from the participants.

CRISTIANO STRIEDER from Brazil wrote in his article: "During the visit, I saw the installations of NDRCC and learned about the operations conducted there. It was interesting to visit NDRCC and observe the whole idea of disaster reduction implement, an advantage just a few countries can afford. It was good to hear in one of the talks that China had agreements with neighbor countries to share the benefits that NDRCC provides. Participating in this technical visit made me realize the importance of such an institution and perceive how it was linked with space technology. I am from Brazil, a country lucky enough not to have hurricanes, tornadoes, volcanic eruptions, earthquakes and tsunamis, and the need for such institutions are not immediately noticed by many people. But I believe it is a urgent issue to a disaster reduction centre integrated with space technologies, as it is of great significance and would be beneficial to any country."



MD. MASUDUL HAQUE from Bangladesh said: "The Interesting/meaningful things I found of NDRCC is its variable functions, like integrating, processing and sharing the disaster information; providing technical service, application research and training; helping the government to make decision for disaster reduction and relief; and international cooperation on disaster reduction.

The responsibilities of NDRCC I noticed during the visit were to develop and implement the national plan on disaster reduction, to develop the guidelines and policies as well as activities, to propel international exchange and cooperation in disaster reduction, to supervise the relevant work in the provincial levels, and to organize and coordinate the disaster relief work."

ELYKA ABELLO RODRIGUEZ from Venezuela wrote: "It was a great technical visit and made me think of the application of my research field, Micro-satellite technology. Satellite project is done to solve people's need, meaning to provide a service to the user. The user defines the mission of the satellite depending on its the application. NDRCC is also a satellite technology application center, even if it is not directly related to the Micro-satellite Technology courses. It is important to know the different applications that a satellite can provide, because applications define the requirement for satellite design."



※ The 4th Stop: National Space Science Center

On April 3rd, 2018, the Centre organized a technical visit to National Space Science Center (NSSC) of Chinese Academy of Sciences (CAS). Participants from 2017 MASTA & DOCSTA Program attended this technical visit, and wrote about their experience and thoughts. Here are some excellent journal article and excerpts from the participants.

On April 3rd, 2018, we went to National Space Science Center (NSSC) of Chinese Academy of Sciences (CAS), Huairou Campus for technical visit, in which more than forty international students from different countries participated. The Agenda of this visit given in advance raised our awareness of NSSC projects and its future program.

On behalf of NSSC, International Cooperation Officer, Mr. XU Yongjian, extended warm welcome on the arrival of us. During his welcome speech, he mentioned that NSSC was the China's gateway to space science and the institute which was responsible for planning, developing, launching and operating China's space science satellite missions. It established in 1958 by CAS, and dedicated itself to developing China's first artificial satellite, known as Dongfanghong-1 (DFH-1). From 1958 to 1968, NSSC designed, developed and tested DFH-1, and built an engineering model before it was handed to industry, paving the way for its successful launch on April 24th, 1970. It also spearheaded space science research in the fields of space physics, space environment, microwave remote sensing, space engineering technology, etc.

After that, Dr. Gao Chen presented Concurrent Designs Facility (CDF) procedure of NSSC. During his presentation, he talked about multiple topics such as objective of CDF, hardware architecture, software modeling, space craft structure and mechanism, payload design and analysis, its communication analysis.

Afterwards, the participants visited the Space Science Mission Operation Center (SMOC). SMOC is the ground support center in NSSC that performs the operation management of satellite. It is mainly responsible for mission planning and scheduling, payload correction, data receiving and production, archiving of all data and long term data service to science data user community.



Subsequently, on behalf of NSSC, Prof. DONG Xiaolong made a brief introduction of NSSC and its space science activities. He touched upon many scientific and technological achievements made by NSSC, including "WuKong" dark matter detection satellite (DAMPE) and "Mozi" quantum satellite (QUESS). He mentioned that all those efforts made them feel a sense of achievement, which was a manifesto of the care from the state leaders in the development of space science in China, and also reflected the importance of space science in building a world power of science and technology. In addition, he talked about future strategic priority program on Space Science for 2017 - 2022 years such as Solar wind Magnetosphere Ionosphere Link Explorer (SMILE), Advanced Space-borne Solar Observatory (ASOS), Water Cycle Observation Mission (WCOM), Magnetosphere-Ionosphere-Thermosphere Coupling Exploration (MIT). He highlighted the following more future priority topics of NSSC:

- Searching and discovering life in the solar system
- Dark matter/ Dark energy
- Solar system exploration, including comets and asteroids sample return
- Solar influence on the Earth system
- Earth system science: climate change and global warming
- Enabling technologies to cross the above frontiers

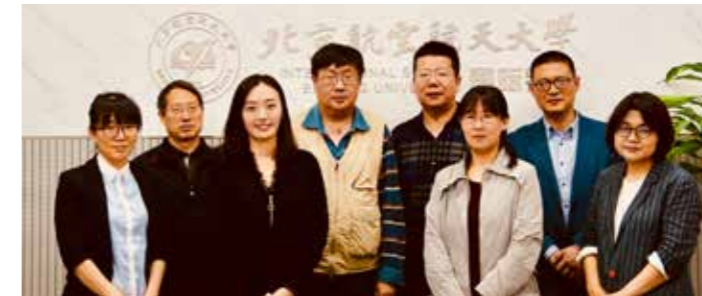
In addition, he mentioned that NSSC also offered Ph.D. and master's programs in the fields of space physics, computer application technology, geo-space exploration technology and electromagnetic theory and microwave technology. After his presentation, participants took the initiative to consult with him, and he answered the questions with patience. Thanks to this visit, everyone got to know the history of space mission in China conducted by NSSC.

As an extension of traditional classroom teaching, this type of technical visit enables students to understand China's achievements in space mission, to perceive the profound heritage of China's space structure, to increase its understanding of Chinese technology, China's vision, China's approach and Chinese style, and to strengthen international exchange and cooperation in the space industry and promote China's space to the world.

Poster Design Contest for China Space Day 2018

※ Overview

In order to better expand the influence of China Space Day, carry on the spirit of space, popularize space knowledge and ignite the enthusiasm from teachers, students, especially the teenagers at home and abroad, Regional Center for Space Science and Technology Education in Asia and the Pacific (China) (affiliated to the United Nations) (RCSSTEAP for short) held Poster Design Contest for China Space Day 2018 together with Qian Xuesen Youth Academy of Space, Teaching Guidance Committee of Fengtai District, Beijing, Experimental School of Beihang University, International School of Beihang University, Department of Industrial Design, School of mechanical engineering and automation of Beihang University. This contest welcomed various forms of works such as plane design, Animated GIFs, painting, graph design, etc.

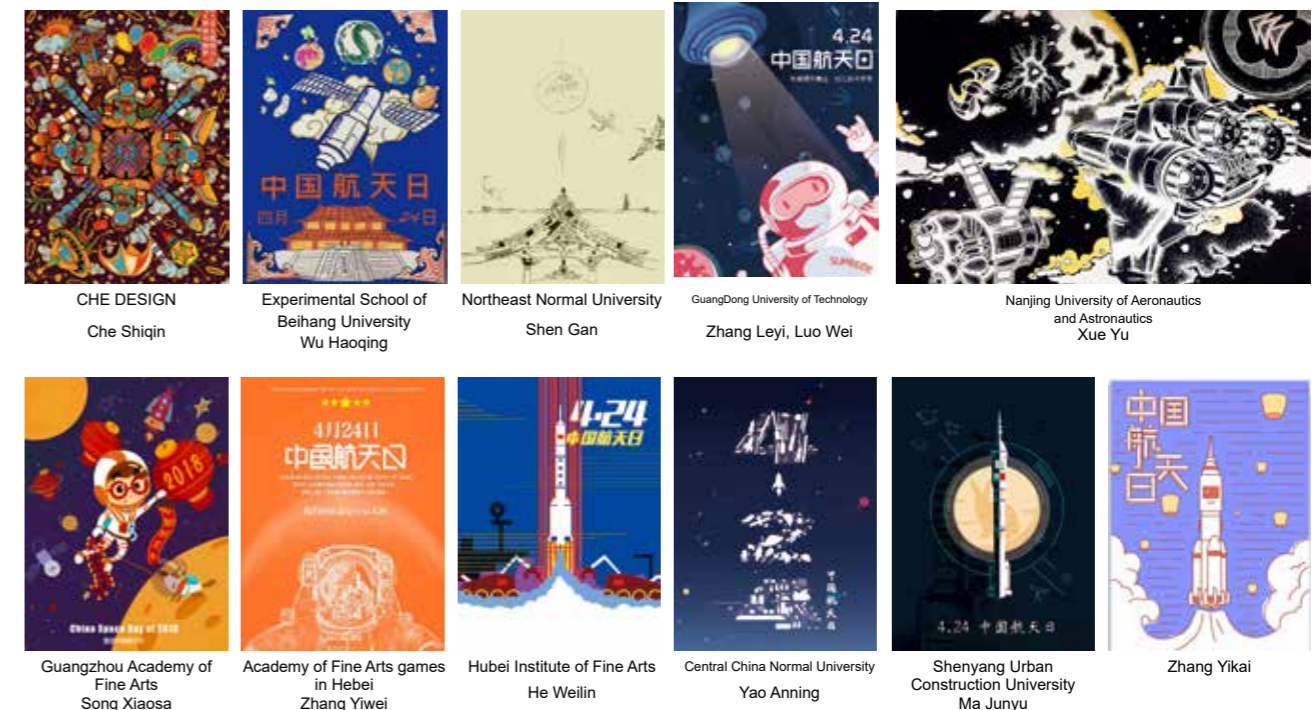


This contest, started on March 15th, 2018 and lasted for a month, attracted people from all walks of life globally. More than one thousand (1000) works have been received from a great many of teachers and students as well as aerospace fans of all ages all over the world. The number of works this year is five (5) times that of last year.

On April 21st, two (2) First Prize, four (4) Second Prizes, six (6) Third Prizes, fifty-five (55) Winning Prize were selected after comprehensive evaluation by the contest committee.

※ Selected Works

On the occasion of China Space Day 2018, let's appreciate some selected amazing works together.



RCSSTEAP Meetings

✧ Editor's note

In order to follow closely the development of the space science and technology, and to promote the improvement of the Centre, representatives of the Centre participate actively in the conference of the Committee on the Peaceful Uses of Outer Space (COPUOS), promote the establishment of Alliance of Regional Centres (ARC), and provide suggestions on peaceful use of outer space. Meanwhile, the Centre tries to offer the participants more opportunities to attend international conferences on Space Technology, speak up on the international stage to open up their horizon, which will in return help to expand the influence of the Centre.

Satellite Application and International Cooperation Seminar Was Successfully Held in Harbin

From April 24th to 25th, 2018, Satellite Application and International Cooperation Seminar was held in Harbin. It was supported by Earth Observation System and Data Centre, CNSA and organized by Institute of Geography Science and Natural Resources Research, CAS, RCSSTEAP and Harbin Institute of Technology. The theme of this seminar was the 'Belt and Road' as a driver for economic and social sustainable development. It aimed to promote the development of satellite application and industry integration, building a brand of China's remote sensing application gradually. More than one hundred (100) experts and international student representatives from twenty-one (21) countries were invited to attend.



More than ten (10) experts from UNOOSA, World Health Organization (WHO), Maastricht University, Earth Observation System and Data Center, CNSA, China Academy of Sciences (CAS), National Disaster Reduction Center of China, APSCO, China Satellite Communications, Co., Ltd., Harbin Institute of Technology made wonderful reports. They elaborated on how to better promote the development of the "Belt and Road" initiative and the internationalization of space science and technology applications from the perspectives of high-level earth observation data, global health cooperation, scientific and technological disaster reduction, international education, etc. Mr. Weng Jingnong, Executive Director of the Centre, made a report on Introduction of Regional Centre for Space Science Technology Education in Asia and the Pacific (China) (Affiliated to the United Nations). In addition, representatives also demonstrated the status, needs, plans of different countries in the field of space technology applications and global health, which facilitated exchanges among the countries.

Representative of the Centre attended the 55th Session of the Scientific and Technical Subcommittee of UNCOPUOS

From January 29th to February 9th 2018, the 55th Session of the Scientific and Technical Subcommittee of the Committee on the Peaceful Uses of Outer Space was held in Vienna, Austria. Mr. Weng Jingnong, Executive Director of the Centre and Dean of International School, Beihang University attended it as a member of the Chinese delegation.

"Programme on Space Applications" received universal attention and appreciation from all member countries. The delegates affirmed its outstanding contribution to promoting space application capacity building in various regions. Representatives of Sri Lanka, Russian Federation, Mexico, Indonesia, Nigeria and other countries expressed their gratitude to China, especially to RCSSTEAP for its active efforts in international education of space technology applications.



During the session, Regional Centre conference was organized by UNOOSA. The establishment of Alliance of Regional Centres (ARC), related agreements and operations, etc. were discussed. Mr. Luc St-Pierre, Mr. Shirish Ravans, Mr. Sergly Negoda from UNOOSA, Mr. Ganiy I. Agbaje, Executive Director of ARCSSTE-E, Mr. Sergio Camacho, Director of CRETEALC, Mr. Weng Jingnong, Executive Director of RCSSTEAP, Ms. Jiang Hui from CNSA, Ms. Lei Nan from MIIT, Mr. Sanath Panawennag from Ministry of Science and Technology of Sri Lanka were in attendance. Representatives of CRASTE-LF, CSSTEAP, RCSSTEWA participated in the conference through Skype.

Representatives of the Regional Centres expressed their full support for the work of ARC and hoped to complete the agreement signing under the guidance of UNOOSA and finalized the legal status of the Regional Centres. Director of RCSSTEWA invited the other directors of the Centres to visit Jordan in May 2018. In addition, details of the exhibition organized by the Regional Centres during UNISPACE+50 were discussed. The name of the exhibition was tentatively identified as "Program on Space Applications: History and Future".



Participant Representatives of the Centre Attended 2018 Asian Science and Technology Conference for Disaster Risk Reduction



During April 17th to 18th, 2018, Asian Science and Technology Conference for Disaster Risk Reduction (ASTCDRR 2018) organized by China National Commission for Disaster Reduction, Ministry of Civil Affairs of the People's Republic of China, Beijing Normal University and United National Office for Disaster Risk Reduction (UNISDR), was held at Xinhai Jinjiang Hotel, Beijing.

About three hundred (300) representatives from organizations of United Nations, Europe, America and Asia, including experts, policy-makers and entrepreneurs in the field of disaster risk reduction and emergency management, were in attendance of this conference. Eighteen (18) participants of the Centre were invited to attend.

2018 Asian Science and Technology Conference for Disaster Risk Reduction (ASTCDRR 2018) mainly reviewed the progress on the outcome of the 1st conference as well as tried to accelerate the implementation of the "Sendai Framework for Disaster Risk Reduction 2015-2030". This conference consisted of an Opening Ceremony, six (6) Thematic Session, a Wrap-up and a Closing Ceremony. At the opening ceremony, Dr. Zheng Guoguang, Vice Minister, Ministry of Emergency Management of China, Administrator of China Earthquake Administration, delivered an opening speech. He mentioned that, Chinese Government always attached great importance to disaster reduction, and the "Sendai Framework for Disaster Risk Reduction 2015-2030" raised in the 1st Asian Science and Technology Conference Disaster Risk Reduction offered new measures and ideas for the work in this field. Chinese Government would take advantage of ASTCDRR 2018 to strengthen communication and cooperation in disaster reduction among Asian countries, and promote the development of applying science and technology in disaster reduction in Asia and in the world to better benefit all humankind. Main content of Thematic Sessions included progress on science and technology roadmap for disaster risk reduction in Asia, progress on understanding risk in Asia, progress on strengthening disaster risk governance in Asia, progress on investing in disaster risk reduction for resilience in Asia, progress on enhancing preparedness for response & recovery, and regional collaboration on applications of science and technology in preventing future risk. In the wrap up session, rapporteurs made summaries of each Thematic Session, and discussed on the outcome documents with all participants of the conference.

Participants of the Centre in attendance were grateful for this massive opportunity the Centre offered to them. They said that, this conference gave them a deep understanding on government policies, latest researches, and other attempts by related enterprise in the field of disaster risk reduction. This conference not only made them be aware of the global situation in disaster reduction, but also encouraged them to devote in the field of disaster reduction with their professional knowledge in space science and technology.



Technical Review and Progress Review Meeting of APSCO SSS Project Was Successfully Held in Ankara, Turkey

The Technical Review and Progress Review Meetings of APSCO Student Small Satellite (SSS) Project was held during April 16th-25th, 2018 in Ankara, Turkey. The delegation from Bangladesh, China, Iran, Mongolia, Pakistan, Peru, Thailand and Turkey actively participated in the Meeting.

The meeting was chaired by Dr. Mohammad Ebrahimi Seyedabadi, Direct-General of the ET&DM Department of APSCO. More than forty (40) delegates from APSCO Member States (MS) including the Program Management Board (PMB) members, the Program Management Team (PMT) members, the project leading universities, the Secretariat of APSCO and the invited experts, participated in this review activity. Mr. Xu Yansong, Division Director for International Affairs from CNSA also participated in the Meeting.



A total of seventeen (17) SSS-1 CDR documents, fifteen (15) SSS-2A CDR documents, ten (10) SSS-2B PRR documents and seventeen (17) SSS-2B PDR documents were circulated by APSCO Secretariat and reviewed before the meeting by the PMB Members, the PMT Members, the invited consultant and MS's' experts independently. By reviewing the required documents, in total, three hundred and thirty-five (335) Review Item Discrepancies (RIDs) were sorted and all RIDs and their clarifications by the SSS-1, SSS-2A and SSS-2B teams were presented in detail during the meeting. Frequency application, ground station network, summer camp were fully discussed.

Beihang SSS-1 team is led by Prof. Huang Hai and Dr. Wang Xinsheng from school of astronautics, Beihang University. The SSS-1 CDR documents were provided by Beihang team. In addition, Beihang provided three technical reports which described the detailed design of structure, mechanism and thermal subsystem. Experts from MSs and the consultant considered they basically reach the standard of CDR phase. This work provided a good example for other MSs and laid a good foundation for the critical design of satellite. During this meeting, Prof. Huang Hai provided a presentation on the SSS-1 implementation progress. He emphasized that many inputs were still pending for system critical design from subsystem providers.

The Member States have reached a consensus that satellite launch work would be organized by China, and the launch date is preliminarily expected in 2020. At present, the work of space callsign application has achieved a preliminary achievement, while the subsequent work is undertaking orderly. Dr. Wang Xinsheng put forward the APSCO university ground station network proposal, which received unanimous support from MSs. The APSCO university ground station network is not only the necessary guarantee of project success, but also has great significance for satellite application data sharing among MSs.

The space technology education and training is one of the key important tasks of SSS project. Beihang organized the first small satellite technology summer camp in 2017, which was of important guiding significance. The second summer camp will focus on the micro-satellite design and AIT. Turkey, the host country of second summer camp, introduced its plan and invited participants to visit the middle-east university, which may be the host university of the coming summer camp.

The Meeting was successfully concluded and the action plan of 2018 was agreed by all MSs. The experts expressed their gratitude to APSCO and TUBITAK-UZAY for their hospitality and efficiency during the Meeting.

At present, the SSS project is the largest basic activity project since the APSCO founded. CNSA, RCSSTEAP and Beihang University have paid more attention to this project. It will not only increase the MSs' satellite design ability but also promote the space technology exchange among MSs.

Education and Training Programs

✧ Editor's note

Educational training is the core of the Centre, which includes degree programs and short training programs. In 2018, the Centre have four educational fields available for postgraduates: Remote Sensing and Geographic Information System (RS&GIS), Global Navigation and Satellite System (GNSS), Micro-satellite Technology, Space Law and Policy. The admission has come to its end.

In order to share the resources, promote the efficiency, and enjoy a win-win cooperation, the Centre, with its partners and other Regional Centres holds jointly the short training programs and science education for young people. Meanwhile, the Centre expands the training oversea by initiating the short training and exchanges in Tunisia and Morocco to explore new education cooperation.

Online Interview for 2018 New Students



On March 26th, 2018, online interview for "Space Science and Technology Application Program" was officially launched. During March 26th to 27th, sixty four (64) participants recommended by Member States of APSCO, including Bangladesh, Iran, Mongolia, Pakistan, Peru, Thailand and Turkey attended the online interview. More than ten (10) professors from Beihang University in the fields of GNSS, RS&GIS, Micro-satellite, Space Law and Policy were in attendance of the interview and graded candidates from aspects of comprehensive quality, professional knowledge and English. According to the scores rank of online interview, the Centre will select out good candidates, and admitted participants will be enrolled at the beginning of September. Online Interview for participants recommended by Member States of the Centre will be on April.

In 2018, the Centre plan to admit fifty (50) participants, including forty-two (42) master' s students and eight (8) doctoral students in four educational fields of GNSS, RS&GIS, Micro-satellite, and Space Law and Policy.

Winter Camp for Bayi-02 Nanosatellite Project Was Held in Beihang University

The High School Student Winter Camp for Bayi-02 nanosatellite project was held in Beihang University successfully during February 5th to 10th, 2018. The camp aimed at the high school aerospace science education and engineering practice activities, which was sponsored by China Aerospace Science and Technology Education Alliance and organized by Beihang University.

More than eighty (80) high school students joined the camp, who were from Luquan High School, Beijing Bayi School, etc. The trainees conducted a six-day intensive training and engineering practice at School of Astronautics, Beihang University.

In the camp, the students were divided into eight groups according to different technical subjects, which include: Structure & Mechanism, Orbit Design, Attitude Determination and Control (ADCS), Assembly Integration and Test (AIT), Remote Sensing (RS), Telemetry Track and Command (TT&C), Electrical Power System(EPS) and On-Board Data Handling (OBDH). The students learned the related knowledge of nanosatellite platform, grasped the use of various professional software, and carried out the actual engineering operation of the subsystems under the guide of the faculty team from the School of Astronautics. Meanwhile, the camp also provided a variety of experiential learning activities for the students, such as film "Genius by Stephen Hawking" interpreted by expert, visiting the Chinese astronaut training center and Air & Space Museum, etc. In addition, the students also received technical training and qualification exams for amateur radio operator.

During the camp days, the high school students learned a lot of space knowledge, realized the charm of astronautics and improved their comprehensive abilities.

The closing ceremony was held on February 10th, 2018 at Beijing Bayi School. The students' exciting and wonderful presentations were praised by the experts. Based on the students' performance and the completion of their missions, the experts awarded for an outstanding group and ten outstanding students.

The teachers and assistants in the camp are all pursuing for the APSCO-SSS project. By organizing this winter camp, more training experience have been acquired, which will be benefit for the subsequent training of the APSCO-SSS project.



In recent years, "STEAM Education", which is derived from the United States, has received widespread attention. STEAM education is a comprehensive education that integrates science, technology, engineering, art and mathematics. It aims to break the boundaries of disciplines, solve practical problems through the comprehensive application of academic attainments and cultivating comprehensive talents. The winter camp covers a number of disciplines and fields such as mathematics, physics, communications, engineering, etc. It is an important practice of the philosophy of STEAM education, and ultimately achieved a series of outstanding results.

APSCO's purpose includes promoting the multilateral cooperation among member states in space science, technology and applications, conducting the mutual aid among member states, improving the space ability of member states, promoting the peaceful uses of outer space, as well as conducting personnel training, etc. The training of young space talents is also one of the development directions. The purpose of this winter camp is to deepen the understanding of high school students in the field of aerospace and to cultivate basic scientific research qualities. It is an important part of personnel training to prepare for training of teenage space talents.

In the future, Beihang University will work together with APSCO and its member states to strengthen cooperation in such fields as space science research, space science and technology education and personnel training, aiming to promote the peaceful use of outer space technology, contribute to the personnel training of space jointly, and increase the space abilities and international influence of the member states of the Asia-Pacific Space Cooperation Organization.

The 1st GNSS Short Training Program of China-Arab BDS/GNSS Center Was Held in Tunisia

In order to materialize the idea raised by President Xi during his stay in the Arab League headquarter in 2016, that to make talents and thoughts flow on “the Belt and Road”, the 1st GNSS short training program was held in newly built China-Arab BDS/GNSS Center, founded by Beihang University, during April 11th to 13th, 2018 in Tunisia.



Mr. Ran Chengqi, Director of China Satellite Navigation Office, and Mr. Mohammed Bin Omar, Secretary General of Arab Information and Communication Technology Organization announced the opening-up of the training program. Prof. Jing Guifei, Dean of Beidou Silk and Road School, Beihang University, and Prof. Wu Falin, Associate Professor of School of Instrumentation Science and Opto-electronics Engineering, Beihang University, attended the series of activities. As the representatives of BeiDou International Communication Training Centre, they held the BDS/GNSS educational training jointly with Arab Information and Communication Technology Organization. During the training, eight (8) experts from International Cooperation Center, Test and Assessment Research Center, BDS/GNSS Open Laboratory, Chinese Academy of Machinery Science and Technology, Beihang University and Wuhan University, delivered eight (8) reports and introduced principles of satellite navigation system, development, functions, services and applications of BeiDou System and other GNSS system to more than forty (40) participants from Arab and Africa. This training aimed to make Arabic customers have better understanding, experience, application of Beidou System and other GNSS systems, and hope to promote the popularization and application of BeiDou Satellite System in Arabic area through this training program. Additionally, this training promoted the development of China-Arab BDS/GNSS Center co-founded by Arab Information and Communication Technology Organization and Arab Science and Technology Maritime institute, and would help to cultivate more talents in GNSS field together with African and Arabic countries.

The training program won positive comments from all parties. Representatives from Arab League and African countries in this training showed great interest in BeiDou System technology and willingness to cooperate with BeiDou and Beihang University on education and applications. The educational training program, as one important part of the Center, will be held in random schedule.



Previous to this, China Satellite Navigation Office and Arab Information and Communication Technology Organization held the inauguration ceremony of China-Arab BDS/GNSS Center in El Jazarra Science Park in Tunisia on April 10th. This was one important action to implement President Xi’s proposal of “landing BeiDou Satellite Navigation System in Arab”. It was also the first time to set up a BeiDou Centre outside China, which would help to accelerate the development of BeiDou Service in Arabic area and the whole world.

Experts of the Centre Were Invited to Organize BeiDou/GNSS Short Training Program in African Regional Centre for Space Science and Technology Education - in French Language (CRASTE-LF)

With the rapid development of GNSS, Asian Pacific and African area will become the next potential growing point of GNSS technology development in next ten (10) years. In order to implement the cooperation agreement between CRASTE-LF and RCSSTEAP signed in July 2014, on behalf of RCSSTEAP, Prof. Qin Honglei, Prof. Jin Tian, Dr. Xiu Chundi from Beihang University and Prof. Chen Xiyuan from Southeast University were invited by Prof. Anas Emran, Director of CRASTE-LF to organize a BeiDou/ GNSS short training program. About thirty (30) technicians and researchers in the field of GNSS from Algeria, Cameroon, Central Africa Republic Morocco, Nigeria, Senegal and Tunisia attended it.



During the training, Prof. Qin Honglei introduced the basic principles, current situation and development tendency of BeiDou/GNSS with details. Prof. Jin Tian explained GNSS software receiver and high sensitive receiver. Prof. Chen Xiyuan demonstrated features of BeiDou technology, RTK, integration of BeiDou and inertial navigation, satellite-based/ ground-based augmentation system and BeiDou technology application. Dr. Xiu Chundi discussed GNSS reflection signal technique and applications, and introduced basic information of RCSSTEAP and its educational training programs. Then, in the participant forum, participants actively asked questions about BeiDou/GNSS and discussed heatedly in groups, showing their great curiosity to the training. This training won high praise from participants. Representative from different countries showed their great interest in BeiDou System, and expressed their willingness to work with RCSSTEAP and Beihang University on educational training programs.

After the training program, representatives of the two (2) Centres further exchanged ideas on the development vision of BeiDou technology in Africa, discussed cooperation issues of student exchange and scholar exchange, and decided that RCSSTEAP would receive one (1) recommended participant from CRASTE-LF to MASTA Program in Space Science and Technology Applications. This training program made customers in African and Arabic area have deeper understanding of BeiDou/GNSS System, which had positive influence on accelerating the process of BeiDou System’s landing and application in Africa. At the same time, it also promoted the cooperation between RCSSTEAP and CRASTE-LF, and increased the global influence and status of RCSSTEAP.



Cooperation and Exchanges

✧ Editor's note

In order to promote the influence of the Centre and contribute to its sustainable development in the long-term, the Centre extends international exchanges and cooperation actively, and searches for new partners. In May 2018, the director of African Regional Centre for Space Science and Technology Education - in English Language (ARCSSTE-E) visited RCSSTEAP, which promoted the communication and cooperation between the Centres. In March, our publications, like Newsletter, were included in the periodicals reading room of the Library of China Academy of Space Technology. In addition, to promote the space technology education of teenagers, the Centre reached an initial intent of cooperation with the International Teenager Competition and communication Center (ITCCC).

Representatives of Beijing Institute of Space Science and Technology Information Visited the Centre

On March 8th, 2018, Ms. Zhu Luqing and Ms. Sun Lin, senior engineers of Beijing Institute of Space Science and Technology Information, visited the Centre.

On behalf of the Centre, Mr. Weng Jingnong extended warm welcome to the guests and briefly introduced education program, resource capacity building and international cooperation of the Centre. He presented publications and materials of the Centre to Library of China Academy of Space Technology. In addition, the two sides discussed space information construction and hoped to further strengthen cooperation and share resources to jointly contribute to the improvement of space science and technology information and related services.

Then, Ms. Zhu and Ms. Sun visited the Centre and expressed appreciation for the Centre's environment construction and information management.

Founded in 1968, Library of China Academy of Space Technology is a space research library managed by Beijing Institute of Space Science and Technology Information. It directly serves the development of China's space technology, with a total of three hundred thousand (300,000) copies of literature and eighty (80) of digital resources. The collection covers books, periodicals, technical reports and other materials in different languages like Chinese, English, Japanese, Russian, etc. It has the most abundant domestic space science and technology literature.



Director of ARCSSTE-E in Nigeria Visited the Centre

On April 12th, 2018, Dr. AGBAJE Ganiyu Ishola, Director of African Regional Centre for Space Science and Technology Education - in English Language (ARCSSTE-E) paid a visit to Regional Centre for Space Science and Technology Education in Asia and the Pacific (China, RCSSTEAP for short). Prof. Weng Jingnong, Executive Director of RCSSTEAP, Dean of International School, Beihang University warmly welcomed the visitors.

On behalf of RCSSTEAP, Prof. Weng Jingnong welcomed Dr. AGBAJE Ganiyu Ishola, and introduced overall situation of the Centre from aspects of personnel education, capability building, international cooperation, etc. Dr. AGBAJE Ganiyu Ishola thanked RCSSTEAP for its great contribution to help improve the capability in personnel education and space technology for Africa, especially for ARCSSTE-E, and he said he would fully support all kind of work of RCSSTEAP and promote exchange and cooperation on space technology globally.

Subsequently, Dr. AGBAJE Ganiyu Ishola visited the computer lab, distance education and video conference room, RS&GIS lab, STA library, publication show window, participant archive shelves, etc.

On April 17th, AGBAJE Ganiyu Ishola was invited to made a lecture for participants of "Training on Space Cooperation for Global Health", titled in "Improving Health Outcomes through the National Geospatial Data Infrastructure - Experience from a Summit (Nigeria)", and won warm response from participants.



African Regional Centre for Space Science and Technology Education - in English Language (ARCSSTE-E) was founded on November 24th, 1998, aiming to improve capability of space science and technology application of native educationalist in English Language area of Africa and promote sustainable development regionally and nationally. The Centre has some educational fields in space science and technology, like RS&GIS, Satellite Weather and Global Climate, Satellite Communication, and Space and Atmospheric Sciences for master's students.

Currently, ARCSSTE-E has recommended six (6) master's students and two (2) doctoral students to study at RCSSTEAP. One master's students in Space Law field has graduated in this January with a master's degree in law.

The International Teenager Competition and Communication Center Visited the Centre

On April 20th, 2018, Ms. Jiang Yuqin along with other three (3) people from the International Teenager Competition and Communication Center visited the Centre, communicated with Mr. Weng Jingnong, Executive Director of the Centre on the issue of concepts, programs and plans of educational training, and achieved initial cooperation intention. Both sides hoped to strengthen cooperation, share resources, co-build information network, create "Future Space Scholar" structured education module, and tell good stories of China space education.



Then, Ms. Jiang and other delegates visited the computer lab, distance education and video conference room, RS&GIS lab, STA library, publication show window, participant archive shelves, etc.

The international Teenager Competition and Communication Center (ITCCC) aims to introduce the best international resources to educate and develop youth by developing high quality education products and helping Chinese schools become among the best internationally. For years, ITCCC has worked with organizations managing international competitions for teenagers. They connect students with a multitude of challenging and influential competitions, with a significant cross-cultural communication component, in a range of different disciplines. Their ultimate goal is to foster students' innovative abilities and skills in order to prepare them for the increasingly competitive world in the 21st century.



Multicultural Integration

✧ Editor's note

The global is a harmonious village, and people from different countries are all good neighbors. The Centre has enrolled nearly two hundred (200) students in "Space Technology Applications" program from eighteen (18) countries since it was founded in 2014. Participants from all over the world gathered here to share their cultures, promote civilization development, and build up the multicultural environment.

The 7th Beihang University International Culture Festival

On May 5th, 2018, the 7th Beihang University International Culture Festival was held at the Qiushi Square of the university. Academician Xu Huibin, the President of Beihang University, representatives of some embassies, representatives of other university departments and directors of some schools attended the opening ceremony. All participants of MASTA/ DOCSTA program participated actively in the activity.



The theme of the International Culture Festival was "Embrace the new era, light the new dream". There were in total forty-three(43) exhibition stage for different countries, showing the splendid culture of each country in ways of parade performance, cultural exhibition, gourmet taste, artwork exhibition, fun games, cultural performance, etc.



Intercultural Activity

In order to take advantage of various cultural backgrounds of participants and build up international and diverse cultural environment, the Centre is going to have intercultural activities since 2018 Spring Semester. Divided by nationality, participants will work in group and give group presentations on their cultures and the cultural differences between Chinese culture and their home cultures. Through the cultural presentations, participants from different countries could learn more about each other and get adjusted into campus life and the Centre's environment much easier. At the same time, this intercultural activity can also help to improve the international influence of the Centre and provide opportunities to build up characterized Centre Culture.

During April to May, the Centre held the intercultural activities for several times. Participants from 2016 & 2017 MASTA/DOCSTA Program were in attendance of the intercultural activities. The activities were hosted by Ms. Wu Ke, student advisor of the Centre. Until May 11th, participants from six(6) countries, including Algeria, Bangladesh, Bolivia, Brazil, Indonesia and Pakistan, have given their cultural presentations of their countries.

Algeria: BLALA HAMZA, a 2017 DOCSTA participant introduced Algerian Culture through an interesting video and a vivid presentation. Algeria is located in the North Africa, with a mixed culture of western culture and Islamic culture, and a diversity of natural landscapes and cultural characteristics in different regions.



Bangladesh: In Bangladeshi group, SUJAUDDIN PATHAN SHIBLEE, a 2017 DOCSTA participant, and S.A.M. ARIF-UL-HAQUE, a 2017 MASTA participant in Microsatellite showed their culture from aspects of basic information of the country, foods, clothing, college life, traditional customs. These two wonderful cultural presentations received warm response from all participants.



Bolivia: CONDORI MENDOZA MARCELO FERNANDO, RENE ROMAN CEREZO PAREDES and SUSTACH GARCIA DAVID, three (3) Bolivian participants of 2017 MASTA program introduced Bolivian Culture through vivid demonstrations, interesting video clips and carefully prepared souvenirs. There are rich natural and cultural heritage in Bolivia, and the culture is diverse with the integration of Western Culture and American Indian Culture.



Brazil: The Brazilian cultural presentation was given by three (3) Brazilian participants who registered in 2017, STRIEDER CRISTIANO, XIE WANG DANIEL and DOS SANTOS OLIVEIRA LUAN HENRIQUE. They showed Brazil from the aspects of its history, famous universities, holidays and capital city.



Indonesia: OGI GUMELAR SUPARMAN, one Indonesian participant of 2016 MASTA program, introduced Indonesian culture from its basic information, visiting place, religions and beliefs, different ethnics, featured plants and animals. He also included a tourism video clip in the cultural presentation and welcomed all participants and teachers to visit the beautiful country.



Pakistan: On behalf of the Pakistan group, MUHAMMAD ARSALAN, 2017 MASTA program participant from Pakistan, gave a cultural presentation on Pakistan culture. The presentation contained all aspects of the country, like geography and history, religions and beliefs, festivals and customs, music and dance. Additionally, Pakistan group also did a comparison between Pakistan culture and Chinese culture, and found a lot of differences. Its rich content and interesting facts won people's warm responses.



Participant's Story

✧ Editor's note

The Centre welcomes students from all over the world to come to China for education since its establishment. Immersed in the beautiful campus and the international environment of Beihang University, participants gained their unforgettable experiences. Are you curious about their stories? Here, let's read about SM SUJAUDDIN PATHAN SHIBLEE's story. He is a 2017 DOCSTA participant from Bangladesh, who has lived in China for more than three (3) years.

My Journey to Space Technology Applications Studies in China

I am Suja Uddin Pathan Shiblee. I work in 'Survey of Bangladesh' which is the National mapping and Geo-spatial agency of my country. At present, I am attending PhD in the DOCSTA program of RCSSTEAP located at Beihang university main campus. Although, my major is noticeably Space technology application, I am working with Remote Sensing and environment under my Supervisor. It will be further narrowed down to find out my specific research direction soon. I did my master degree, as well, in the MASTA program of the same Centre. At that time, I was given an attractive Chinese name 比利 -Bili.



My life in Beihang: Unforgettable memories...

This is my third year at Beihang. After finishing MASTA in 2015, I went back to my Organization and kept working until I came back in September 2017 for Doctoral (DOCSTA) program. Within this time span I have so much of stories to talk about, and so many memories to share with. Some of them can be portrayed here:

· **Campus and Cultural Experiences:** It took about pretty long time to know and to explore the vast and varied campus of Beihang. Loosing destination and paths were common at the beginning. I was accommodated on the first floor of FSD. Lodging was more comfortable at that time having more space and non-sharing room.

Huge number of exhibits of aircrafts of precious historical value and space crafts, space suits, rockets, different missile, etc. are gathered in a wide space in the Air and Space museum of Beihang. During Masters, it was one of my favorite places to visit. While in DOCSTA, I am enjoying as one of the international volunteers of the museum.

Soon, we got closer to our all classmates. Although, we had a regular and consistent communication

with all classmates of RS&GIS, GNSS and DOCSTA, closer ties prevailed throughout between our 10 classmates (from Iran, Pakistan, Bangladesh, Indonesia, Mongolia, Sri Lanka and Peru) of RS&GIS.

Sports activities, specially, football was one of the most attractions among us. Sometimes in the morning and other time in the afternoon, we used to wait eagerly for those moments.

Walking with and playing/testing drone/UAV is not a serious issue here since many students have such major to experiment their own works.

· **Food and trying to be a chief:** Chinese ways of preparing food and diversity of tastes are probably world's largest in numbers. Each province or sometimes different cities have differences in tastes and varieties in types of food. To my observation, peoples of China love to eat more and sometimes there are misuse also.

Most of the meals that I took were either in canteen or sometimes in the restaurant.

Having a well decorated kitchen in the room and necessity of socialization instigate to start cooking for the first time. As it happens for all, initial experiences were horrifying that got better in later times.

· **Study/Professional Visits/Team Project (TP)/Graduation:** Apart from living, fun, cultural exchanges and friends two years program developed methodically with courses of major and non-major subjects, professional visits, a three months long Team Project and Thesis activities followed by expected graduation. Some of the professional visits in Xi'an National Time Centre, RADI, RS test work shop etc. are shown pictorially.

During three (3) months' TP, we had been awarded internship by the institute of remote sensing of the Chinese Academy of Science (CAS). We have been focused on the project given by our Supervisor well in the Lab provided by her. Other Chinese students presenting in the lab also supported us in the fulfillment of the project requirement.



· **Travelling through Chinese Cities:** During my stay at Beihang, I grabbed the opportunities to travel around China, whenever it was permissible with free time. Apart from the different places of Beijing, some of the places that I travelled includes Shanghai, Xi'an, Guangzhou, Suzhou and Shenzhen.

Additional Words

This issue records the main work of the Centre from February to April, 2018, including international training program of "Training on Space Cooperation for Global Health", Journey of Chinese Aerospace Technology and Culture 2018, intercultural activities, etc. It is worth mentioning that Poster Design Contest for China Space Day 2018 was held successfully. We received more than a thousand works submitted by Chinese and foreign students and professors from different universities all over the world, as well as space enthusiasts of all ages, which contribute to the promotion of the aerospace spirit and the diffusion of the aerospace culture.

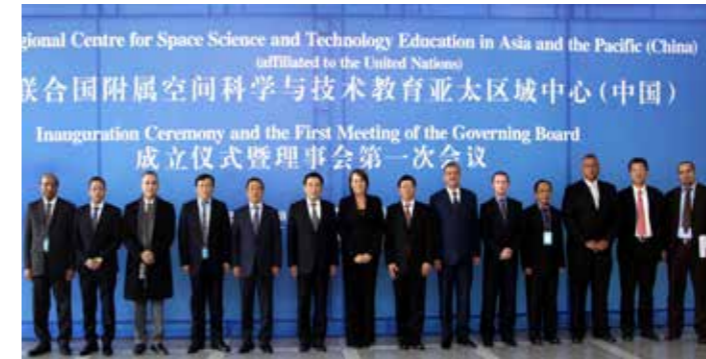
To memorize the start of a new journey, we redesign the cover and the content, and renew the composition. The new Newsletter has five (5) parts: Special Focus, Related Conferences, Education and Training Programs, Multicultural Integration, and Participant Story. We want to tell wonderful and brand new stories of the Centre in multi-angles, and we hope you would like it.

Thank you for your concerns and support all the time. Comments and suggestions are welcomed and valued. We will continue to work hard so as to make Newsletter better and better.



New Main Building · Beihang University

Historical Moments



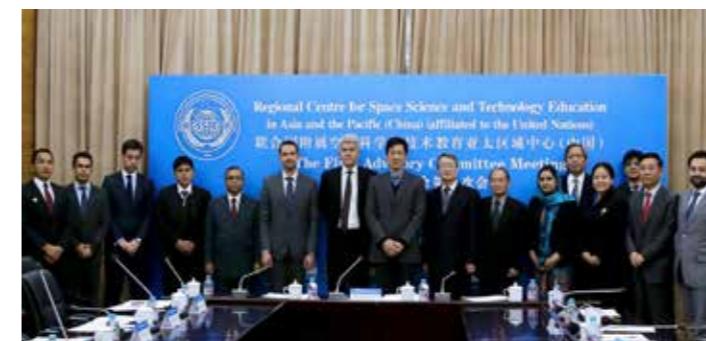
The 1st GB Meeting, Nov. 17, 2014



The 2nd GB Meeting, Nov. 28, 2015



The 3rd GB Meeting, Nov. 29, 2017



The 1st Advisory Committee Meeting, Dec. 6, 2016





联合国附属空间科技教育亚太区域中心（中国）
Regional Centre for Space Science and Technology Education in Asia and the Pacific(China)
(Affiliated to the United Nations)