

Newsletter

2019/ Vol.004 / Total Vol.020

Exchange • Promotion • Development



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)

Consultation

Contribution

Shared Benefits



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

Guidance: Tao Zhi/ Huang Haijun

Chief Editor: Weng Jingnong

Executive Editor: Cui Yizhuo
Guo Yuanyuan

Editor: Yang Fan/ Tan Yumin/ Jin Tian
Xiu Chundi/ Huang Hai
Gao Guozhu/ Yang Dongkai
Wang Xinsheng/ Wu Falin

Layout Design: Wang Xin/ Gao Lan
Yue Zhaoming

Add: The 5th Floor, International School,
Beihang University

Contact Person: Ms. Cui Yizhuo

Tel: 86-10-82338937

Fax: 86-10-82339326

Website: www.rcsstep.org

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Thoughts on Five Years' Review

2019 is a fruitful year for the world's aerospace industry, with 103 space launches worldwide. On July 8 of this year, the non-profit organization (The Planetary Society) launched Lightsail 2 aircraft into earth orbit and successfully deployed a Solar Sail in space; On October 18, NASA astronauts Christina Koch and Jessica Meir realized the first all-female spacewalk; On December 16, China successfully launched 2 Beidou stars in Xichang Satellite Launch Center, and completed the deployment of core constellation of beidou-3 global system; On December 27, China Long March-5 was successfully launched...

The development of the aerospace industry is inseparable from the progress of science and technology, and also from the cultivation of talents. In December this year, the 4th Meeting of the Governing Board of the Centre & 5th Anniversary Celebration was successfully held at Beihang University. Experts and scholars from home and abroad gathered to conduct extensive exchanges and in-depth discussions on the topics like future cooperation and development direction of space technology applications and talent training mechanism, etc.

Since its establishment, the Centre has adhered to the concept of "Down to the Earth while Aiming High", stick to the development strategy on "Openness, Innovation and Inclusiveness", and made continuous efforts to realize the vision of "advancing the space technology application for the benefit of all mankind". At present, the Centre has held 3 Governing Board Meetings and 2 Advisory Committee Meetings; invited a total of more than 30 foreign experts and more than 140 domestic experts to teach the participants; trained 237 master and doctoral participants for 24 developing countries; cooperated with more than 30 well-known research institutes, enterprises, and public institutions to continuously carry out training programs; representatives of space agencies from 18 countries visited the Centre and exchanged views on talent training, exchange & visits, short-term training, international cooperation; the Centre actively broaden cooperation with universities, research institutions and related companies, organized participants to do internships at relevant scientific research institutions and enterprises from time to time; continuously improving and strengthening the environmental construction to create a learning and working environment with uniform style and well-equipped facilities; published a total of 20 issues of Newsletters...

The achievements of the Centre in the past 5 years are not only the foundation of its future development, but also the driving force for all the teachers, employees and participants of the Centre to move forward bravely. We will continue to build on the past and make further progress!

Celebrating the 5th anniversary of the Centre, we are full of happiness and looking forward to the future. Let's expect for the next 5 years!

Special Focus

※ Editor's note:

All this time, the Centre, based on "Programme on Space Applications", has been continuously expanding training topics to build its international education brands. Furthermore, the Centre contributes a lot in strengthening culture construction: holding activities like "Journey of Chinese Aerospace Technology and Culture" which have become the highlight of the Centre and gained wide appreciation and recognition from participants and personage of various communities. This column concentrates on the educational development of the Centre, demonstrating highlight activities and showing stories of talent cultivation in space science and technology.

— Series Review of the 5th Anniversary of the Centre

※ Five Years in Photos (Historic moments)





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联合国附属空间科技教育亚太区域中心(中国)



The Centre 中心



Development History 发展历程



Note: The preparation can be traced back to 2000.



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Milestones 里程碑

Application 申办过程

In February 2013, the Chinese delegation proposed to establish a new regional education centre for space science and technology affiliated to the United Nations at Beihang University at the 50th Session of the Scientific and Technological Subcommittee of COPUOS.

In June 2013, the proposal was approved at the 56th conference of COPUOS.

On September 30, 2013, Beihang University passed the evaluation organized by UNOOSA with the conclusion of "Offered or Satisfactory" (OS).



The Governing Board and the Advisory Committee 理事会和咨询委员会

November 17, 2014, the Inauguration Ceremony of the Centre the 1st Meeting of the Governing Board

November 28, 2015, the 2nd Meeting of the Governing Board

December 6, 2016, the 1st Advisory Committee Meeting

November 29, 2017, the 3rd Meeting of the Governing Board

November 22, 2018, the 2nd Advisory Committee Meeting



Historic Moments 历史回眸





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联合国附属空间科技教育亚太区域中心(中国)



Education and Training Programmes 教育培训项目



Capacity Building 能力建设



Micro-satellite Mission Control Center
小卫星地面测控中心



Remote Sensing Ground Station
遥感卫星地面站



National Key Laboratory - CNS - ATM
CNS-ATM国家重点实验室



RS&GIS Laboratory
遥感与地理信息系统的教学实验室



Smart Classroom
智慧教室



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)



Professors and Experts 师资队伍



Ms. Mazlan Olgman
Former Director of UNOOSA



Mr. Sergio Camacho
Former Director of UNOOSA



Mr. Niklas Hedeman
Doctor UNOOSA



Mr. Shirish Ravan
UN-SPIDER Beijing Office



Mr. Christophe Macabiau
ENAC, France



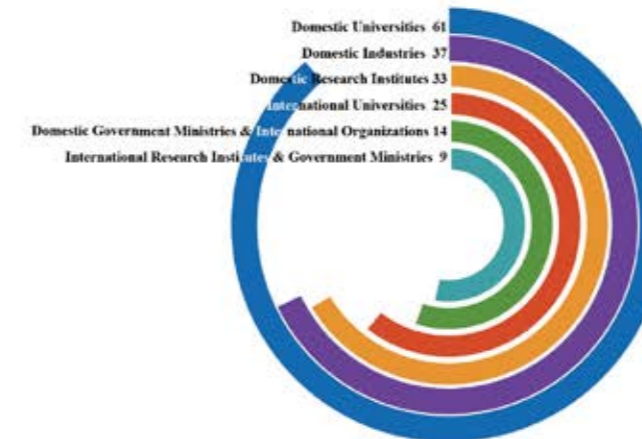
Ms. Gabrynowicz
Professor, U.S.A



Mr. Yang Yuanxi
Academician of Chinese
Academy of Sciences



Mr. Stephan
Hobe University of Cologne, Germany



Professors and Experts of the Centre 2015-2019





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Development Mode 发展模式

- U** Hosted by Universities
- G** Supported by Chinese Government
- I** Work with Related International Organizations (APSCO, UN-SPIDER, HIST)
- I** Industry/Institution Participation

Universities



International Organizations



Industry / Institution Partners



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Alliance of Regional Centres 区域中心联盟



Member States of Each Regional Centre

Centres	Member States	UNOOSA Status
ARCSSTE-E	Botswana, Cameroon, Egypt, Ethiopia, Eritrea, Ghana, Kenya, Lesotho, Liberia, Mauritius, Malawi, Mozambique, Nigeria, Namibia, Somalia, Swaziland, Sudan, South Sudan, South Africa, Sierra Leone, Tanzania, Gambia, Uganda, Zambia and Zimbabwe	Observer
CRASTE-LF	Algeria, Cameroon, Cabo Verde, Central African Republic, Democratic Republic of Congo, Côte d'Ivoire, Gabon, Mauritania, Morocco, Niger, Senegal, Togo and Tunisia	Observer
CRECTEALC	Brazil, Mexico	Observer
RCSSETWA	Egypt, Iraq, Jordan, Kuwait, Lebanon, Libya, State of Palestine, Sudan, Sultanate of Oman, Syria and Yemen	Observer
CSSTEAP	DPRK, India, Indonesia, Iran (Islamic Republic of), Kazakhstan, Kyrgyzstan, Malaysia, Mongolia, Myanmar, Nauru, Nepal, Philippines, Republic of Korea, Sri Lanka, Thailand and Uzbekistan	Observer and Chair of Advisory Committee
RCSSTEAP	Algeria, Argentina, Bangladesh, Bolivia, Brazil, China, Indonesia, Pakistan, Peru and Venezuela	Observer



Down to the Earth while Aiming High

仰望星空、脚踏实地

Openness, Innovation,
Inclusiveness

开放、创新、包容



2013

1. In January 2013, the Ministry of Industry and Information Technology held an inter-ministerial coordination meeting to discuss the application to the United Nations Office for Outer Space Affairs (UNOOSA) for establishing a new regional education centre for space science and technology affiliated to the United Nations.
2. In February 2013, the Chinese delegation proposed to establish a new regional education centre for space science and technology affiliated to the United Nations at Beihang University in the 50th Session of the Scientific and Technological Subcommittee of COPUOS.
3. In June 2013, the proposal submitted by the 50th Session of the Science and Technological Subcommittee was approved at the 56th Session of COPUOS.
4. On September 30, 2013, Beihang University passed the evaluation organized by UNOOSA with the conclusion of "Offered or Satisfactory" (OS).

2014

1. In March 2014, the Premier of People's Republic of China approved the establishment of the Centre in China.
2. From September 18 to 22, 2014, UN-SPIDER Short-Term Training Course was held in Beihang University.
3. On September 29, 2014, the first Global Networking Forum (GNF) on International Space Education was elaborated and hosted at the 65th International Astronautical Congress (IAC) in Toronto, Canada, Mr. Weng Jingnong was appointed the chairman of the conference.
4. On November 17, 2014, the 1st Meeting of the Governing Board of the Centre was held in Beijing, Mr. Xu Dazhe, Administrator of China National Space Administration (CNSA), Deputy Minister of Industry and Information Technology of China (MIIT) was appointed as the Chairperson of the Governing Board. Mr. Tao Zhi, Vice President of Beihang University was appointed as Director of the Centre. Mr. Weng jingnong from International School, Beihang University was appointed as Deputy Director of the Centre, and Mr. Huai jinpeng, the President of Beihang University at that time, was appointed as Director of the Centre's Advisory Committee.
5. On December 22, 2014, the first Session of APSCO Distance Training Course was held at Beihang University.

2015

1. From February 2 to 13, 2015, the 52nd session of the Scientific and Technical Subcommittee of the COPUOS was held in Vienna, Austria, representatives of the Centre were invited to attend.
2. From April 13 to 24, 2015, the 54th Session of the Legal Subcommittee of COPUOS was held in Vienna, Austria, representatives of the Centre were invited to attend.
3. From June 15 to 19, 2015, Dr. Gong Haoqin's "Painting Exhibition on China's Space Exploration—Flying with the Wings of art" was held successfully in the Mozart Hall of Vienna International Center., the Headquarters of the United Nations Office for Outer Space Affairs in Vienna.
4. In September 2015, the Centre enrolled international graduate students majoring in Micro-satellite Technology for the first time.
5. In October 2015, the Centre was reconstructed and redecorated.
6. On November 28, 2015, the 2nd Meeting of the Governing Board was held in Beijing, Mr. Xu Huibin, President of Beihang University, was appointed as the Director of the Advisory Committee.

2016

1. On March 8, 2016, The Chinese government approved the establishment of "China Space Day" on April 24 each year. In order to broaden the influence of China Space Day, uphold and endorse the astronauts' spirit and inspire people at home and abroad, especially young people's enthusiasm for advocating science, exploring the unknown, and daring to innovate, the Centre held the first Poster Design Contest for China Space Day in April 2016, and was well received and participated. It is now the brand event of the Centre which is held in April each year.
2. Since 2016, on the basis of integrating existing teaching and practice resources, the Centre has elaborated a series of activities of "Journey of Chinese Aerospace Technology and Culture", which have been strongly supported by the Ministry of Industry and Information Technology. This activity is held from March to June every year, through practice visits, academic lectures, student forums and other forms, is a bold attempt to innovate the education and training mode of the Centre.
3. From August 8 to 13, 2016, the Global Navigation Satellite System Training Course co-sponsored by the Centre and ARCSSTE-E was held in Ife, Nigeria.
4. In September 2016, the Centre enrolled international graduate students in Space Law and Policy for the first time.
5. From September 12 to 16, 2016, Mr. Sergio Camacho, the former Director of UNOOSA, was invited to visit the Centre and give lectures.
6. On September 26, 2016, the 67th International Astronautical Congress (IAC) was held in Guadalajara, Mexico, representatives of the Centre were invited to attend and gave a report.
7. From October 14 to 16, 2016, Training on the "Belt and Road Initiative" Spatial Information Corridor Engineering Application was held in Beihang University.
8. On October 26, 2016, Dr. Luc St-Pierre and Dr. Shirish Ravan, Project Managers of Space Technology Applications of UNOOSA (United Nations Office for Outer Space Affairs) visited the Centre.
9. The Centre attaches great importance to the construction of volunteer team, encourages students to participate in the work of the Centre and make suggestions for the development of the Centre. In December, 2016, Mr. Krishna Prosad Mondal, an international student from Bangladesh, was awarded the title of "Outstanding Volunteer of the Year".
10. On December 6, 2016, the 1st Advisory Committee Meeting was held in Beijing, China, presided by Mr. XU Huibin, Director of the Advisory Committee and President of Beihang University. Proposal for establishing the Alliance of Regional Centres (ARC) initiated by RCSSTEAP was discussed during the meeting.

2017

1. On February 15, 2017, Mr. Weng Jingnong, Executive Director of the Centre, and Latin American students accepted interview from Spanish Channel of CCTV.
2. From 6 to 10 March 2017, Ms. Mazlan Othman, the former Director of the United Nations Office for Outer Space Affairs (UNOOSA) visited the Centre and gave lectures.
3. On April 22, 2017, Madam Simonetta Di Pippo, Director of UNOOSA and six (6) permanent representatives at United Nations Office at Vienna (Indonesia, Kazakhstan, Malaysia, Pakistan, Philippines and South Africa) visited Beihang University, accompanied by Mr. Wu Yanhua, Vice Administrator of CNSA and Mr. Xu Hong, Director-General of Department of Treaty and Law, Ministry of Foreign Affairs of the People's Republic of China.
4. During June 12 to 14, 2017, a delegation led by Mr. Huang Haijun Vice President of Beihang University attended

the 60th Session of UNCOUOS.

5. On August 14, 2017, the First Summer Camp of the APSCO Student Small Satellite (SSS) Project was held in Beihang University.
6. August 21-24, 2017, "Southern Hemisphere Space Technology Application and Education Forum", organized by the Centre, was held successfully in Brazilian Space Agency (AEB) and University of Brasilia.
7. On the occasion of the 65th anniversary of Beihang University, a Space Technology Applications Forum was held successfully by the Centre on October 27, 2017.
8. On November 29th, 2017, the 3rd Meeting of the Governing was held in Beijing, Mr. Tang Dengjie, the Administrator of China National Space Administration (CNSA) at that time and Deputy Minister of Industry and Information Technology (MIIT), was elected the Chairperson of the Governing Board.

2018

1. From April 12 to 26, 2018, Training on Space Cooperation for Global Health was held at Beihang University.
2. From April 11 to 23, the 1st Short Training Program of China-Arab BDS/GNSS Center was held in Tunisia.
3. From April 23 to 27, BDS/GNSS short training program was held in Morocco.
4. From July 30 to August 17, 2018, the 2nd Summer Camp of APSCO Small Student Satellite (SSS) Project was held successfully in Ankara, Turkey.
5. During October 22 to 26, 2018, Micro-satellite Technology Short Training Program was held in Morocco.
6. From April 24 to 25, 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. This seminar is one of the series of activities.
7. From June 17 to 26, 2018, the 61st session of the United Nations Committee on the Peaceful Uses of Outer Space was held in Vienna, Austria, during which the UNISPACE+50 aerospace exhibition was held, the Centre set up its own booth in the name of the Alliance of Regional Centres (ARC).
8. From September 17 to 19, 2018, the 1st World Conference on Science Literacy was held in Beijing. Mr. Weng Jingnong, Executive Director of the Centre and Dean of International School, delivered a speech at the Parallel Session of the conference: "Space Exploration and the Future of Mankind" Forum.
9. On November 14, 2018, the opening ceremony of APSCO 10th Anniversary Conference was grandly held in Beijing. Mr. Xu Huibin, Director of the Advisory Committee of the Centre and President of Beihang University, was invited to be present. President Xu Huibin renewed the cooperation agreement between Beihang University and APSCO with Mr. Li Xinjun, Secretary General of APSCO. During the conference, Beihang University was conferred Best Space Education Cooperation Institute.
10. On November 20, 2018, the UHF/VHF/S-band APSCO Mission Control Centre & Data Process Archive Centre of Beihang was completed and put into operation.
11. On November 22, 2018, the 2nd Advisory Committee Meeting was held in Beijing, The meeting discussed the addition of Space Science specialty and other topics.
12. On December 9, 2018, Surucchwadi Seweewanlop, a Thai student from the Centre, won the first prize in "FLTRP Cup" English Public Speaking National Round Competition.

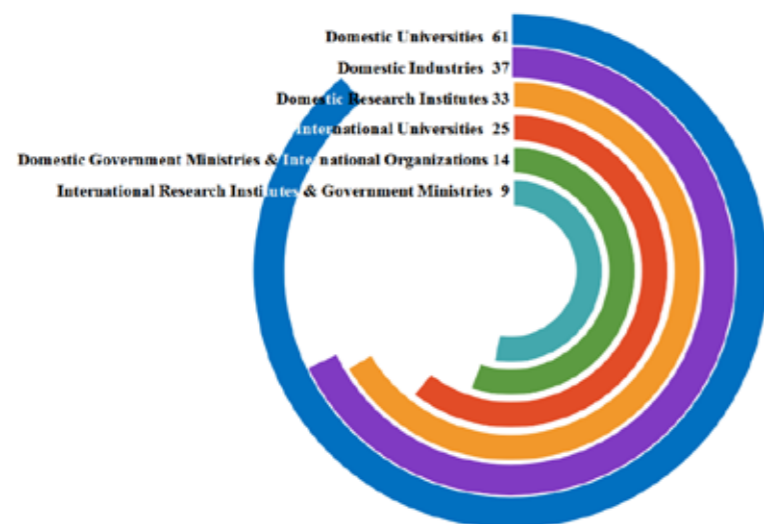
2019

1. From March 25 to 28, 2019, Mr. Weng Jingnong, Executive Director of the Centre, attended United Nations/ Jordan Workshop: Global Partnership in Space Exploration and Innovation and delivered a report.
2. From April 1 to 2, 2019, the 2nd BeiDou Short Training Program of China-Arab States BDS operation Forum was successfully held in Tunisia City of the Republic of Tunisia.
3. On April 24, 2019, Mr. Tao Zhi, Director of the Centre and Vice President of Beihang University, led the delegation to attend the United Nations/China Forum on Space Solutions: Realizing the Sustainable Development Goals. During the conference, the Centre set up a booth independently, fully display the achievements made by the Centre in recent years and the development of the Alliance of Regional Centres (ARC) through displaying pictures, brochures and souvenirs, which was widely concerned and praised by the delegates.
4. On May 24, 2019, **Mr. Carlos Augusto Teixeira de Moura, President of Brazilian Space Agency (AEB), paid a visit to the Centre.**
5. **On July 4, 2019, the Centre successfully accomplished the task of English training and testing for personnel selected by the China National Space Administration (CNSA) to work in the United Nations Office for Outer Space Affairs (UNOOSA).**
6. **On September 11, 2019, Mr. Weng Jingong, Executive Director of the Centre, Dean of International School, Beihang University,** was invited to attend the 10th Anniversary Conference of UNSPIDER. At the meeting, Beihang University was awarded Valuable Contributions by UN-SPIDER Beijing office.

※ Teaching Organization and Professors/Experts

Adhering to the principle of openness and innovation, relying on Beihang's disciplinary advantages and international education foundation, the Centre aims to build itself into a world-class space science and technology education institution, recruited teachers worldwide to build an international teaching team, integrated global high-quality education resources, set up a teaching management team, and established an information system for participants, alumni and experts. Besides, the Centre standardized the training process, set strict graduation standards, improved the evaluation and feedback mechanism of teachers, courses and management, held the educational lecture and participant forum at the first day of every semester, and formed a set of a management system to optimize the teaching effect and ensure the teaching quality.

Professionals and Experts of the Centre 2015-2019



In terms of course content design, the Centre referred to the modular curriculum scheme recommended by the United Nations, gave priority to the practical needs of countries in the Asia-Pacific region, gave play to China's advantages in the field of space technology and application, and combined with the requirements of Graduate School of Beihang University on degree-awarding to comprehensively train participants' research and application capabilities in space technology. In terms of faculties, all the teachers and supervisors of the Centre have overseas study background, domestic postgraduate teaching experience and scientific research experience closely combined with the application of space technology. The teachers are not only from Beihang University, but also integrated from other high-quality teaching resources at home and abroad. As for the dissertation, the thesis topic selected by the participants was targeting at the application needs of space technology in different countries. The MASTA and DOCSTA participants were allowed to choose to complete the dissertation research at Beihang University or in their own country.

From 2015 to 2019, the Centre has invited more than 30 International experts from the United States, Canada, Australia, France, Germany, Croatia, Singapore, Mexico, and the UNOOSA and more than 140 national expert from Beihang University, Tsinghua University, Peking University, the Chinese University of Hong Kong, China Agricultural University, Beijing University of Posts and Telecommunications, Beijing Institute of Technology, China University of Political Science and Law, National Disaster Reduction Center of China (NDRCC), Chinese Academy of Sciences, China Academy of Space Technology, China Academy of Launch Vehicle Technology, Beijing Unistrong Science & Technology Co., Ltd., Beijing BDStar Navigation Co., Ltd, and other well-known colleges and universities, scientific research institutions and enterprises to teach participants. The courses taught by the experts cover professional fields such as Remote Sensing Technology and Applications, Satellite Communications, Global Navigation Satellite System, Micro-Satellite Technology and Space Law and Policy, etc.



RS&GIS



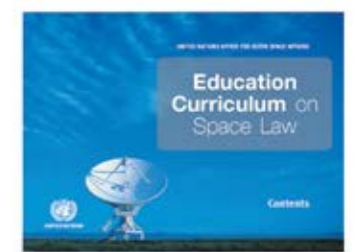
GNSS



Micro-Satellite Technology



SATCOM



Space Law and Policy

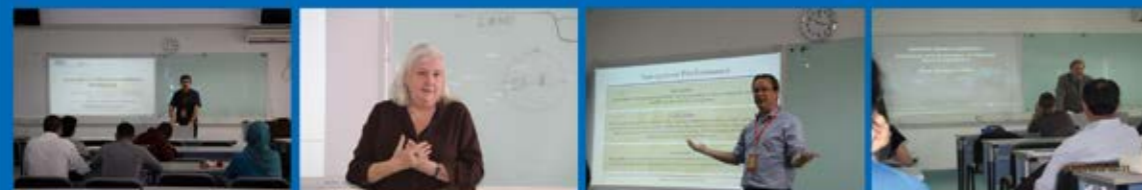
● 中心已开设有遥感与地理信息系统、卫星通信、卫星导航、小卫星技术、空间法律与政策五个专业方向的研究生培养项目。
The Centre offers master and doctoral programs in the field of remote sensing and geographic information systems, satellite communications, global navigation satellite system, micro-satellite technology, space law and policy.

Professors/Experts

部分师资



Ms. Mazlan Otman Former Director of UNOOSA | Mr. Sergio Camacho Former Director of UNOOSA | Mr. Niklas Hedeman Doctor UNOOSA | Mr. Sherish Ravan UN-SPIDER Beijing Office



Mr. Christophe Macabiau ENAC, France | Ms. Gabrynowicz Professor, U.S.A. | Mr. Maarten Uijt de Haag Ohio University, U.S.A. | Mr. Steghan Hobe University of Cologne, Germany

Professors/Experts

部分师资



Mr. Yang Yuanxi Academician of Chinese Academy of Sciences | Mr. Han Chunhao Beijing Satellite Navigation Centre | Mr. Jing Guifei Deputy Director of NRSCC | Mr. Wang Jinnian China RSGeoinformatics Co., Ltd.



Mr. Zhuang Fengyuan Beihang University | Mr. He Linshu Beihang University | Mr. Yang Dongkai Beihang University | Mr. Weng Jingnong Beihang University



Mr. Wu Falin Beihang University | Mr. Jin Tian Beihang University | Ms. Li Suju National Disaster Reduction Center | Mr. Zhao Yun Hongkong University

✧ International Exchange and Cooperation

In order to closely follow up and grasp the new developments in space technology, the Centre has always adhered to the working ideas of active action, open communication and innovative development, created a new stage and achieved a series of results. From 2015 to 2019, as a member of the Chinese delegation, representatives of the Centre actively participated in the meetings of the Committee on the Peaceful Uses of Outer Space (COPUOS), made technical reports in the conference, carried out exchanges with Member States of the Centre and other Regional Centres, actively fathomed the needs of Member States and other developing countries, provided corresponding education and training support, and strove to cultivate the application-oriented aviation talent required by their countries.

UN-COPUOS Sessions 外空委员会

为密切跟踪了解空间科技与应用发展动态，推动中心发展，中心代表积极参加外空委相关会议，并为促进空间技术和和平利用建议筹备。
 In order to closely track and comprehend the development of space technology, promote the development of the Centre, representatives of the Centre actively participate in the sessions of UN-COPUOS and put forward proposals to promote the peaceful use of outer space.

The Centre actively strengthened exchanges and cooperation with other Regional Centres, shared technical and educational resources through jointly organizing short-term training courses and other ways, improved the application capacity and academic research capacity of satellite navigation system of countries in various regions, and promoted the in-depth promotion of the United Nations Programme on Space Applications.

Representatives of space agencies from eighteen (18) countries, including Algeria, Argentina, Bangladesh, Bolivia, Brazil, Chile, Egypt, India, Indonesia, Jordan, Laos, Malaysia, Mexico, Nigeria, Pakistan, Peru, the United States and Venezuela, have visited the Centre to exchange views on talent training, exchange&visits, short-term training and international cooperation, and reached a series of consensus and cooperation intentions.

It is worth mentioning that Ms. Simonetta Di Pippo, Director of the UNOOSA, visited the Centre in April 2017. In her speech, she mentioned that although the Regional Centre established in Beihang University is the latest of the six (6) Regional Centres of the United Nations in the world, it has made remarkable achievements. This is to thank the Chinese government and Beihang University for their positive contributions in promoting the development of the Centre and the training of Space Science and technology talents. In the future, it is hoped that the Centre will participate more

Exchanges with the Other UN Regional Centres 与其他区域中心交流



中心代表分别于2014年7月、2016年1月、2016年8月、2017年5月与摩洛哥区域中心、印度区域中心、尼日利亚区域中心、墨西哥区域中心、约旦区域中心等展开短期培训与交流。
Representatives of the Centre visited CRASTE-LF in Morocco in July, 2014, CSSTEAP in India in January, 2016, ARCSSTE-E in Nigeria in August, 2016, CRECTEALC in Mexico in May, 2017 and RCSSTEWA in Jordan in May, 2017 respectively for exchanges and cooperation on short training programs.

in the work of the COPUOS, further deepen international cooperation, promote information opening and sharing, and become a model of all the Regional Centres affiliated to the United Nations.

In June 2018, the 61st session of the United Nations Committee on the Peaceful Uses of Outer Space was held in Vienna, Austria, during which the UNISPACE+50 aerospace exhibition was held. After a discussion with UNOOSA, Alliance of Regional Centres (ARC) had its own booth showing images and distributing brochures so as to present the achievements of every Regional Centre in recent years and the development of the Alliance. The booth gained attention and appreciation from State Members of the United Nations Office for Outer Space Affairs (UNOOSA) and all the participants.

International Exchanges 国际交流

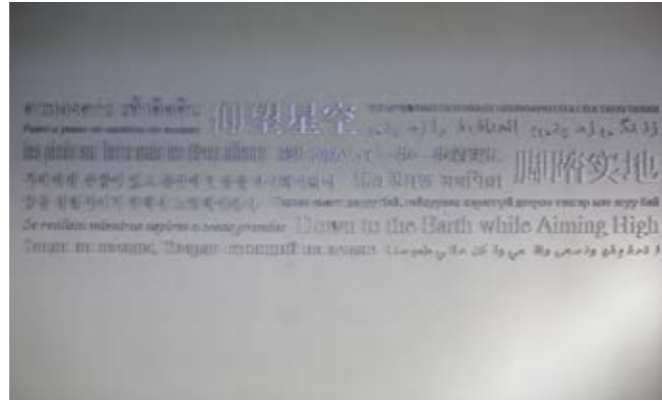


中心积极与世界各国开展交流活动，不断扩大中心影响力和知名度。
The Centre is actively carrying out international exchanges with other countries in the world for its brand promotion.

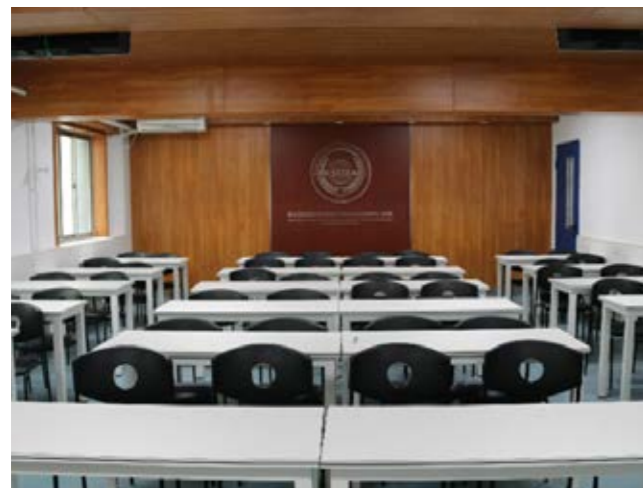


※ Environmental Construction

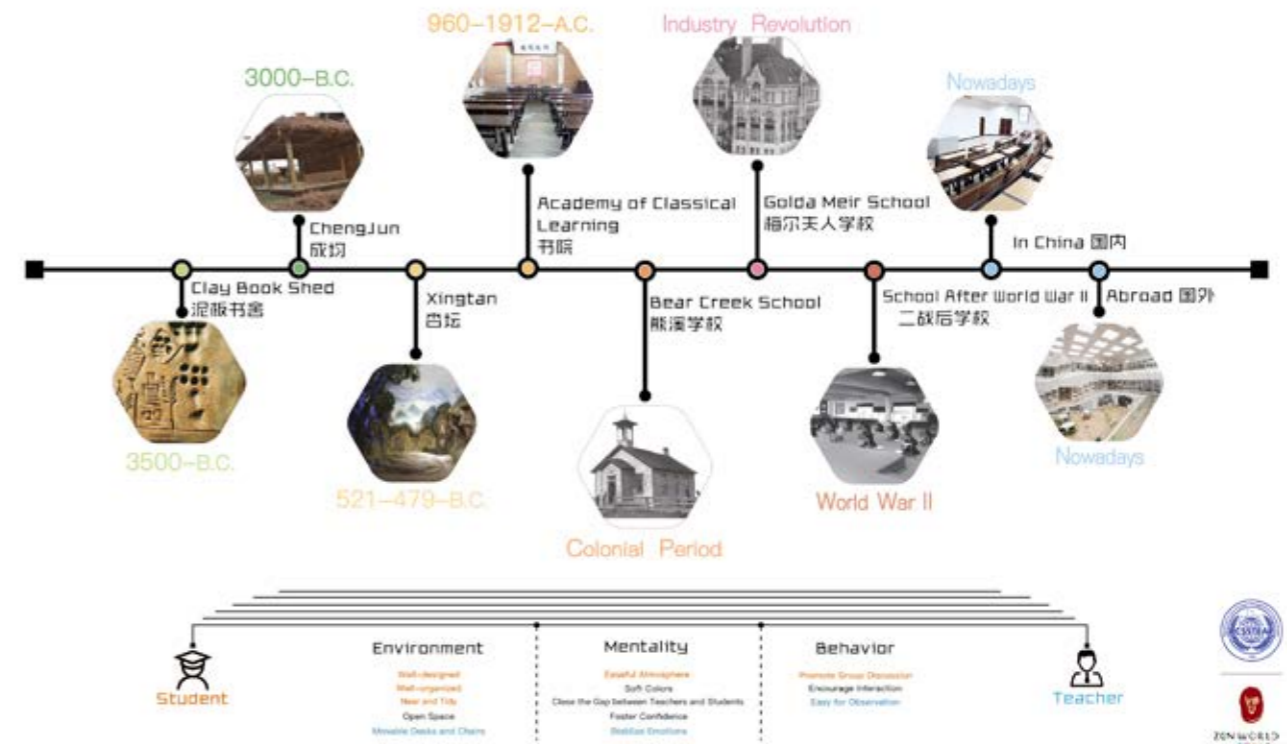
Environmental construction is an important part of the cultural construction of the Centre, as well as an important aspect of giving full play to the role of environmental education, improving the learning environment of the Centre, creating an international teaching atmosphere, and enhancing the happiness of faculties and students. Over the past five (5) years, the Centre has been committed to continuously improving and strengthening the environmental construction to create a learning and working environment with uniform style and well-equipped facilities. To this end, the Centre hired a professional team to elaborately plan and design the environmental construction. The Centre has implemented the plan step by step and made continuous progress. It has built the logo of the Centre, theme wall, idea wall, the gallery, STA library, publication display window, smart classroom, training classroom, visiting professor office, and other facilities.



From 2016 to 2017, the Centre has reformed, improved and updated the environment of the exhibition area, cultural experience area, seminar room, classroom, STA library and office, etc.



TEACHING SPACE DESIGN



In 2019, the Centre built the Micro-satellite Mission Control Center, Micro-satellite Technology Lab, smart classroom, and updated the equipment in RS& GIS Lab .



In the future, the Centre will continue to optimize its environment and facilities to provide a better, international and humanized education and teaching environment for participants, teachers and staff who are "Down to the Earth while Aiming High".

—Record of the 5th Anniversary of the Centre

※ The 4th Meeting of the Governing Board of the Centre & 5th Anniversary Celebration

On December 9th, 2019, the 4th Meeting of the Governing Board of Regional Centre for Space Science and Technology Education in Asia and the Pacific (China) was held at the Conference Centre of New Main Building, Beihang University. The meeting was hosted by Mr. Zhang Kejian, new Chairperson of the Governing Board of the Centre and Administrator of China National Space Administration (CNSA). Mr. Xu Huibin, Director of the Advisory Committee of the Centre and President of Beihang University; Mr. Tao Zhi, Director of the Centre and Vice President of Beihang University; Mr. Weng Jingnong, Executive Director of the Centre and Dean of International School, Beihang University; Governing Board Members of the Centre; Directors of other Regional Centres of the United Nations; diplomatic envoys to China, and representatives of international organizations such as UNOOSA were in attendance.

At the meeting, the Governing Board reviewed the report of the Advisory Committee and Biennial Work Report 2018-2019 of the Centre, adopted Biennial Work Plan 2020-2021 of the Centre, and approved to add the Space



Science and Environment as a new major of MASTA Program. Following the UN's initiative of "the peaceful use of space technology for the benefit of all mankind", centering on the biennial work plan of the Centre, the Governing Board Members had in-depth exchange on strengthening the team and system construction, promoting the sustainable development of the Centre, organizing education and training, better serving the Member States and other developing countries of the Centre, enhancing the capacity and infrastructure construction, expanding the influence of the Centre, and promoting the economic and social development of the Asia Pacific region through space cooperation and talent training.

After the Governing Board meeting, the 5th anniversary celebration of the Centre was held in The First Lecture Hall of Conference Centre of New Main Building, Beihang University. The conference reviewed the achievements made in education and training, international cooperation and capacity building in the five years since the establishment of the Centre, summarized the "UGII" development model of the Centre, which is hosted by University, supported by Chinese Government, work with related International Organizations (UNOOSA, APSCO, etc.) and Industry/Enterprise Participation, and looked forward to the vision to the future development of the Centre.



Mr. Wu Yanhua, deputy director of the CNSA, delivered a speech on behalf of the host country: "China as an initiator and the host country", he said, "is looking forward to work together with the Member States and international community, focusing on the common goal of 'promote sustainable development of the space science and technology education', adhering to the 'win-win cooperation' space international cooperation and development concept and the original intention of space science and technology education development, persisting in traction with space projects, promoting the 'avenue' of science, technology and education combination, to contribute China's wisdom and strength to the economic and social development of the Asia-Pacific region".



Mr. Luc St-Pierre, Representative of UNOOSA, fully affirmed the positive efforts of RCSSTEAP for the peaceful use of outer space for the benefit of all mankind and the assistance of space science and technology education development in the Asia-Pacific region, he praised the innovative contribution of the Centre in promoting the "Programme on Space Applications" initiated by the United Nations and its leading role in promoting the construction of the six (6) Alliance of Regional Centres of the United Nations.



President Xu Huibin said that the peaceful use of outer space is consistent advocacy and proposition of the United Nations. It is the common pursuit of many countries including China, to explore and develop the vast space full of mysteries and make it beneficial to all mankind, and it is also the obligatory mission of Beihang University. As the supporting unit of the Regional Centre for Space Science and Technology Education in Asia and the Pacific (Affiliated to the United Nations), Beihang University has always been committed to promote the development of International Space Science and technology education by giving full play to its advantages in disciplines and teaching team. Since its establishment five years ago, the Centre has adhered to the development concept of "Openness, Innovation and Inclusiveness". In the

five (5) educational fields of Remote Sensing and Geographic Information Systems (RS&GIS), Satellite Communications, Global Navigation Satellite System (GNSS), Micro-satellite Technology and Space Law and Policy, 237 master and doctoral participants have been trained for 24 developing countries, and more than 20 short-term programmes were held for nearly 1,000 students from 64 countries.

The Outstanding Contribution Award and Outstanding Contribution Award of the Centre were also bestowed at the meeting.

Eight (8) units including Shenzhou Institute, China Academy of Space Technology, Long March College of China Academy of Launch Vehicle Technology, Asia Pacific Space Cooperation Organization (APSCO) and UN-SPIDER Beijing office won the Outstanding Contribution Award. Five (5) teachers, including Mr. Jin Tian and Ms. Tan Yumin, took the stage as representatives of the Centre to receive the



Outstanding Contribution Award. After that representatives of partners, teachers, participants and graduates of the Centre made speeches and shared their stories with the Centre.

During the meeting, a retrospective exhibition of the Centre's achievements was also held at the Conference Center of New Main Building, Beihang University.

After the 5th Anniversary Celebration, the Centre held the 2020 New Year Reception in the Vision Hotel, which was





hosted by the participant of the Centre and presented wonderful performances by Chinese and foreign students. Friends at home and abroad gathered to talk and discuss cooperation and development.

The Regional Centre for Space Science and Technology Education in Asia and the Pacific (Affiliated to the United Nations) was established in 2014 with Beihang University as the supporting unit. It is the only United Nations affiliated institution in Chinese universities and the first inter-governmental regional agency for space science and technology education in the Asia-Pacific region. With the mission of “promoting the peaceful use of space technology for the benefit of all mankind” and integrating the world’s excellent educational resources and innovating talent training mode, the Centre is committed to build a world-class space science and technology education institution, improve the education and training level and application capability of space science and technology in Member States of the Centre and other developing countries, and promote the sustainable development of regional economy and society.

In the past five years, by utilizing superior technology and educational resources, the Centre has carried out talent training and degree education with the mission of “cultivating high-level, innovative and international space technology application talents for developing countries”, adhering to the development strategy of “Openness, Innovation and Inclusiveness” and the development mode of “Hosted by University, supported by Chinese Government, work with related International Organizations (UNOOSA, APSCO, etc.) and Industry/Enterprise Participation”. In the five (5) educational fields of Remote Sensing and Geographic Information Systems (RS&GIS), Satellite Communications, Global Navigation Satellite System (GNSS), Micro-satellite Technology and Space Law and Policy, 237 master and doctoral students were trained for 24 developing countries, and more than 20 short-term programs were held for nearly 1,000 students from 64 countries. In the past five years, the Centre has established 9 Member States, developed more than 30 partners including international organizations, space agencies and companies, proposed and led the implementation of major cooperation projects such as the multi-mission Micro-satellite constellation and APSCO small student satellite (SSS Project), providing an important carrier for space technology cooperation in the Asia Pacific Region.

※ Meeting of Directors of the Regional Centres for Space Science and Technology Education (Affiliated to the United Nations)

On the morning of December 10, 2019, the Meeting of Directors of the Regional Centres for Space Science and Technology Education (Affiliated to the United Nations) was held at Beihang University. Mr. Luc St Pierre, representative of the UNOOSA, Mr. Awni Kasawneh, Director of RCSSTEWA, Mr. Ganiyu Ishola Agbaje, Director of ARCSSTE-E, Mr. Sergio Camacho, Director of CRECTEALC, Mr. Anas EMRAN, Director of CRASTE-LF, Mr. Gao Guozhu from the Law school of Beihang University attended the meeting. The meeting was hosted by Mr. Weng Jingnong, Executive Director of RCSSTEAP.

The meeting held a heated discussion on topics like how to promote the application of space technology, accelerate the cooperation and development of each Regional Centre, cultivate higher-level space technology application talents, realize “space 2030” and team building, etc.

Mr. Weng Jingnong, Executive Director of the RCSSTEAP, mentioned that in the past five (5) years, the Regional Centres have received strong support from the United Nations Office for Outer Space Affairs (UNOOSA). Similarly, the Regional Centres should also support the development of the UNOOSA within their capabilities. In the past five years, RCSSTEAP has received a lot of support from the Chinese government and Beihang University, and has established the development mode of “UGII”, which is hosted by University, supported by Chinese Government, work with related International Organizations (UNOOSA, APSCO, etc.) and Industry/Enterprise Participation. Then, Mr. Weng Jingnong made a brief introduction on the degree education, short-term training programmes, talent training, professional curriculum setting, excellent participants and other aspects of the Centre. This year, the Centre will add the Space Science and Environment as a new major of MASTA Program, to better serve the space technology applications and development of Member States.

During the meeting, Mr. Gao Guozhu made a preliminary discussion on the draft of the Declaration of Alliance of Regional Centres Affiliated to the United Nations on Further Strengthening Cooperation and Capacity Building (referred to as Beijing Initiative) with the Directors of the Regional Centres. The draft includes cooperation mechanism, organization setting, capacity building, cooperation projects, communication frequency, activity development, training project, talent training, teaching material construction and other aspects of the Alliance of Regional Centres (ARC).

The Directors of the Regional Centres from various countries expressed their gratitude to the RCSSTEAP for hosting the conference, and mentioned that in the past five years, the Centre has trained space technology application talents from many countries based on Beihang University. After returning home, they have all taken important positions in the relevant space agencies in various countries, providing strong support for the development of space technology for each country.

The meeting enabled the Directors of each Centre to have a clearer plan for the cooperation direction, cooperation mechanism and content of the ARC hereafter, and laid a good foundation for future development.



※ International Space Education Cooperation Forum

On the afternoon of December 10, 2019, on the occasion of the 5th anniversary of the Regional Centre for Space Science and Technology Education in Asia and the Pacific (Affiliated to the United Nations), the International Space Education Cooperation Forum was held in the conference center of the new main building, Beihang University. Dr. Luc St Pierre, Senior Programme Officer, Space Application Section, UNOOSA, addressed the conference, Ms. Yu Qi, Director General of Department of International Cooperation, CNSA attended the forum. The forum was chaired by Mr. Weng Jingnong, Executive Director of the Centre.



Eleven (11) guests made presentations at the forum, they were from CRECTEALC, China Satellite Meteorological Center, Asia-Pacific Space Cooperation Organization (APSCO), School of Biological Science and Medical Engineering, BUAA, RCSSTEWA, Northwest Polytechnic University, CRASTE-LF, Shenzhou Institute, China Academy of Space Technology, China Academy of Space Technology, ARCSSTE-E, ITCCC and RCSSTEAP.

Mr. Sergio Camacho, Director of CRECTEALC, summed up seventeen (17) world sustainable development goals mentioned in the 2030 Agenda for Sustainable Development, Sendai Framework for Disaster Risk Reduction 2015-2030 and the Paris Climate Change Agreement, proposed that high-quality talents in space technology applications should be trained through the establishment of space related specialties, and gave a brief introduction to the organizational model and achievements of the CRECTEALC.



Mr. Tang Shihao, Researcher of China Satellite Meteorological Center, made a report entitled "Overview of Fengyun satellite and its applications", introduced Fengyun and Gaofen series of satellites in China, made a detailed description on data service, software service, satellite application and international cooperation of China Satellite Meteorological Center, and introduced their plan.



Mr. Mohammad Ebrahimi Seyedabadi, Director General of Education Training and Database Management Department of APSCO, introduced their establishment process, multilateral cooperation mode, talent training mechanism, degree education, university cooperation, APSCO Small Student Satellite project (SSS), etc.



Ms. Liu Hong, Professor in School of Biological Science and Medical Engineering, BUAA, Chief designer of "Lunar Palace 1", introduced the development background, development process, experimental process and data analysis of experimental results of "Lunar Palace 1", which was the first the world's third space base life support foundation integrated experimental device.



Mr. Awni Kasawneh, Director of the RCSSTEWA, introduced the new building of the Jordan Regional Centre which was just put into use this year. He also gave a brief introduction to the existing hardware and software facilities, specialty settings, exchange visits and future development directions of the RCSSTEWA.



Ms. Yuan Yun, a representative of Northwestern Polytechnic University, introduced the "Belt and Road" Aerospace Innovation Alliance (BRAIA) to the guests in detail from its founding and development process, members, working mechanisms, events and future plans.



Mr. Anas Emran, Director of the CRASTE-LF, introduced the Morocco Regional Centre from its Member States, development goals, professional settings, training courses and short courses. The specific cooperation contents with RCSSTEAP, UNOOSA and other international organizations in the past few years were also illustrated.



Mr. Zhao Sheng, a representative of Shenzhou Institute, China Academy of Space Technology, made a detailed introduction to the research scope, research content, research results, international cooperation, satellite launch, space engineering education and training of the CAST.



Mr. Ganiyu Ishola Agbaje, Director of ARCSSTE-E, briefly introduced the Member States, cooperation and talent training of each Regional Centre, and proposed that the Regional Centres should support the initiatives of the UNOOSA in promoting global space technology applications and sustainable development.



Mr. Mao Yong from the International Teenager Competition and Communication Center (ITCCC), systematically introduced STEAM education, including ten (10) activities such as the Future Space Scholar Meet and Future City Program, and displayed the student achievements.



Mr. Jin Tian, representative of RSCCTEAP, associate professor of School of Electronic Information and Engineering, Beihang University, systematically combed the development mode and direction of RCSSTEAP since its establishment from three (3) aspects: space education challenges, Regional Centre practices and achievements with the theme of capacity building of RCSSTEAP.



Guests attending the forum said that the International Space Education Cooperation Forum was brilliant and rich in content, which has a very important guiding significance for partners, enterprises and organizations engaged in the field of space education. The forum was warmly welcomed and praised by the audience.

Meetings

✧ Editor's note:

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

✧ 2019 International Symposium on the Peaceful Use of Space Technology

November 18-19, 2019 International Symposium on the Peaceful Use of Space Technology (Health) was held in Zhuhai, Guangdong, more than 400 government officials, delegates of International organizations, astronauts, professionals and experts, investment institutions and corporate executives, teachers and students attended the conference. The conference was jointly sponsored by China Society of Aeronautics (CSA), China High-Tech Industrialization Association (CHIA) and International Peace Alliance (Space). It focused on the latest development of space technology and explored the promotion of space technology in the social and economic development aspect of the application. Ms. Surucchawadi Seweevanlop from Thailand attended the conference representing the 2018 Space Law and Policy participants of the Centre, Ms. LETICIA SANTOS LULA BARROS, 2018 Micro-sat participant from Brazil and Ms. ASUDE MERYEM KARAC, 2018 Global Navigation Satellite System participant from Turkey participated in the preparatory work of the conference as volunteers.



The following is a summary of the space law sub-forum: The Space law and regulations are used to enable, control, provide frameworks and develop space activities in an orderly and fair manner. Space law and its principle has been respected by all space actors so far, even without the "police enforcement" mechanism. The current core challenges are to maintain the peaceful use of outer space. Because without peace in outer space, no space activities are possible. Space law and its principle have to be understood by all regulators, not only for the governmental entities but also for all private entities. The space law treaties all require us to take regard of all states due respect of their economic development which has to be equally shared, not first come first served in terms of equitable sharing of space resources and the outer space itself. At present, there are increasingly severe challenges that space laws need to cope up with, for instance, the growing severe threat of space debris that concerns space environment issues, space traffic management are becoming extremely important to be taken into consideration. Therefore, the future of international space law has to be able to provide transparency and confidence-building mechanism. The purpose thereof is not only for the economic benefit but also for each nation's security concern as well. Simply speaking, the use of outer space should not lead to militarization which could eventually lead to the intentional destruction of space objects.

※ GIS Software Technology Conference 2019

From October 30 to November 1, GIS Software Technology Conference 2019 with the theme of “Deep evolution of geographic intelligence” was held in Beijing. Under the guidance of the Ministry of natural resources, the conference was co-sponsored by China Geographic Information Industry Association, China Society of Surveying and Mapping, China Software Industry Association, China Geographic Society, Institute of Geosciences and resources of Chinese Academy of Sciences, and SuperMap Software Co., Ltd. It attracted experts from more than 50 countries and regions, including China, France, Germany, South Korea and South Africa. 14 participants from the Centre attended the conference at the invitation of SuperMap Software Co., Ltd, a partner of the Centre.

The conference lasted for 3 days, with 1 Theme Conference, more than 10 thematic forums and 2 developer forums. Leaders and experts from government agencies, scientific research institutes, universities and enterprises from many countries and regions all over the world shared the latest GIS technology research results and innovative application cases, launched peak conversation and jointly discussed the new trend of industrial development.

During the conference, Mr. DOS SANTOS OLIVEIRA LUAN HENRIQUE, a 2017 Brazilian student who graduated from the Centre in June this year majoring in Small Satellite Technology, was invited to make a report at the sub forum. He introduced the main business scope and current market strategy in Brazil of his company (Beijing Zhi'ao Space Technology Service Co., Ltd. and GEOESPAÇO), which is started by him and Mr. XIE WANG DANIEL, 2017 RS&GIS participant of the Centre after graduation. At the same time, he briefly introduced the information, opportunities and challenges related to Brazil's geographic information system market, as well as the projects in which the company is currently involved. In addition, he proposed to further promote China-Brazil cooperation and jointly develop Brazil's GIS market. After the report, many companies expressed their willingness to cooperate with GEOESPAÇO.



Visit&Training

※ Editor's note:

Educational training is the core of the Centre work, which includes postgraduate degree programs and short-term training programs. In 2019, the Centre provides three (3) educational fields for postgraduates: Remote Sensing and Geographic Information System (RS&GIS), Satellite Communications and Global Navigation Satellite System (SC&GNSS) and Micro-satellite Technology.

In order to share the resources, promote the efficiency, and enjoy a win-win cooperation, the Centre jointly organized short-term training programs with its partners and other Regional Centres and began to carry out science education training for young people, which gained expanding influence.

※ Guiyang Technical Visit

December 16-17, 2019, another technical visit program of the Centre was launched. Twenty (20) participants from 2018 entry, representative of the Centre and four (4) teachers participated in this program. This time the destination was the science base of Five Hundred Meter Aperture Spherical Telescope (FAST), which is located in Astronomy Town of PingTang (Kedu Town, Pingtang County, Bouyei and Miao Autonomous Prefecture, Guizhou Province, about 170km from Guiyang, the provincial capital of Guizhou). Here is the journal from ELYAS FADAKAR KASARI, 2018 DOCSTA participant:



“FAST is a national key scientific and technological project in the 11th Five Year Plan. It is jointly built by National Astronomical Observatory of the Chinese Academy of Sciences and Guizhou Provincial Government. FAST has gone through a long period of 23 years from conception to completion, and it will maintain its international leading level in the next 20-30 years. FAST is currently the world's largest single dish radio telescope, and is an important facility for detecting astronomical frontier topics. Its main scientific goals are to inspect the neutral hydrogen in the universe, discover new pulsars, lead the international long baseline network, detect interstellar molecules, and search for extraterrestrial civilizations, etc. The establishment of FAST has enabled China to have a world-leading platform for astronomical observation and research, providing important support for China to carry out researches in the fields of the nature of “dark matter” and “dark energy”, the origin and evolution of the universe, the origin of space life and the search for extraterrestrial civilization.

This project has truly replayed the whole process of manipulating the “China Sky Eye” to observe the Universe, and guests can personally experience the attitude adjustment of the active reflection surface and feed cabin of FAST system and the process of processing and analyzing the received electromagnetic wave signals by astronomers.

Radio telescopes have only a short history of eighty (80) years, but they have gone through the development process of small to large, single antenna to multiple antennas, ground to space, and receiving signals from meter-wavelength band to submillimeter-wavelength band.

Other main parts of the Science Base of FAST which attracts more attentions are first the sculpture of a



man pointing to the sky in the entrance hall. Actually, this is the sculpture of Qu Yuan the pioneering poet standing impressively between heaven and earth asking about the heaven. Qu Yuan is an outstanding representative of ancient Chinese intellectuals. His famous long poem "Tian wen (Asking about the heaven)" has been praised by historians as a masterpiece for thousands of years. The poem raised hundreds of questions about natural phenomena and nearly half are related to astronomy.

Second, the large dome space with a diameter of 15m where an immersion sky-watching experience is created with a huge dome screen and a fully enclosed view, which perfectly shows the unique beauty of the starry sky, interprets the unique connotation of constellations and stars, and opens a fascinating and direct celestial shock experience.

We have also found that Guizhou Asteroid, Qiannan Asteroid and Pingtang Asteroid are the only three asteroids named after Chinese province, prefecture and county, respectively. It's wonderful and also makes Guizhou people so proud.

For the second day, we also visited the Liyang aviation exhibition hall in Guiyang. After a brief introduction about the genesis of aviation technology worldwide we understood the important role of China during aviation history to independence in military aircraft construction and development. The importance of the development of aviation for the country and the great efforts and dedication of engineers also explained under the "three line construction" plan. An impressive visit of an aircraft engine factory which has been located in a cave, a remainder of all the sacrifices and hard endeavors for the development of the aviation of China, close to the location of the exhibition hall was the final episode of this scientific adventure.

It was a real exceptional scientific experience for every students and teachers who participated in. We have learned a lot from such a great program and we all are sure that there are so much more in China that can be learned which can not be found in any other place in the world. We are really grateful of the organizers of this program of the International School and the teachers who accompanied us during this trip and we hope to have the opportunity to be involved in similar future programs."



※ Hangzhou Technical Visit

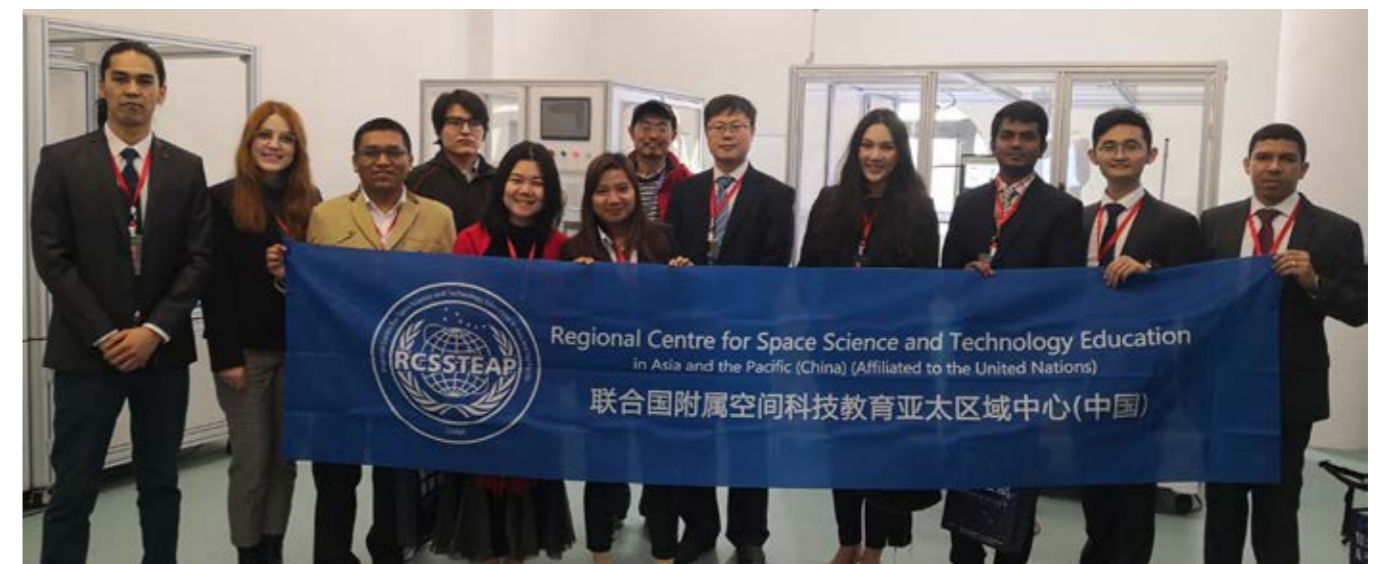
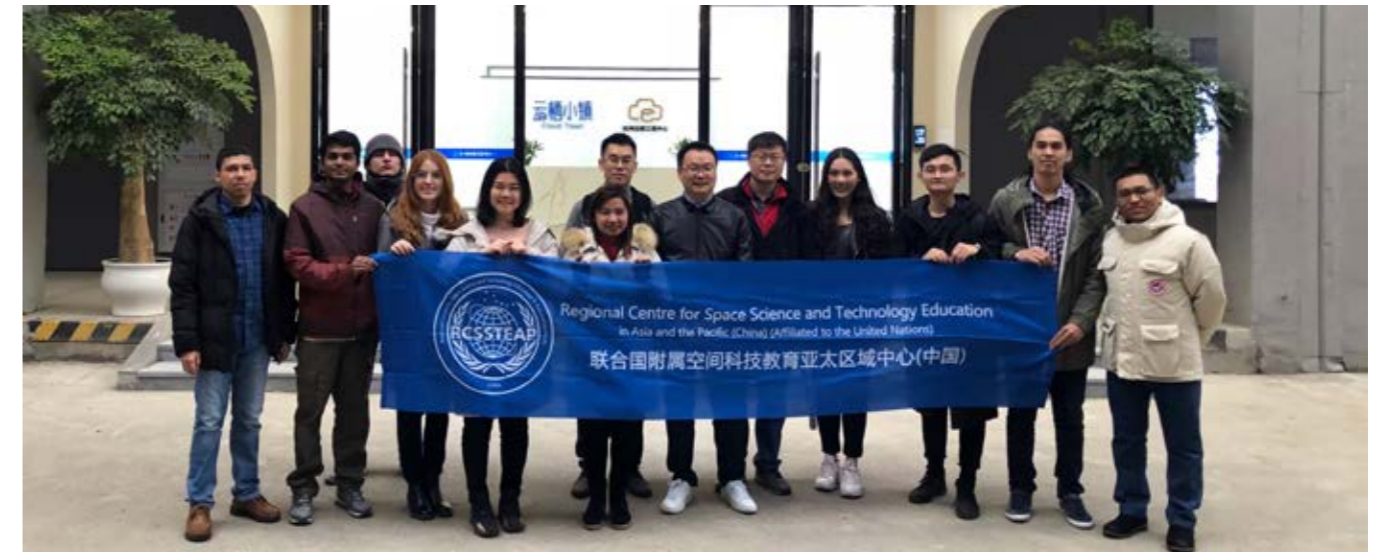
On December 28-29, 2019, nine (9) participants of the Centre joined the technical visits in Hangzhou, Zhejiang province leading by Dr. Wang Xinheng. Here is journal from Ms. SUKOLRATANA CHUANSOMBOONSIRI, 2018 MASTA participant

Hangzhou is the capital of Zhejiang Province and the local political, economical and cultural center. First day of technical visit, we attended Qian Jiang Forum for International Yong Scholars. In that forum, Professor Deng Yuan (Dean of BUAA Hangzhou Innovation Research Institute) presented about BUAA Hangzhou Innovation Research Institute. Moreover, other speakers presented about autonomous diving and intelligent networking advance technology, the development of facial aging simulation technology and the development and prospect of quantum precision measurement technology as well.

Hangzhou Innovation Research Institute of Beihang University is a new high-level research institute jointly built by Beihang University and the governments of Zhejiang Province, Hangzhou City and Binjiang District. Beihang University establish a platform in the institute for researches on a variety of fields including artificial intelligence, cyberspace security, virtual reality, big data and microelectronics etc. Moreover, we also had chance to visit Hangzhou Innovation Research Institute of Beihang University to see various kind of innovation.

On the second day of technical visit, we visited Zhongnan Group. Zhongnan Group is the 19th among top 500 Chinese private enterprises. This enterprise has done many kind of projects but it is mainly about construction. We visited showroom of the company and also discussed about various things related to the company and its further projects.

In the afternoon, we had the chance to visit the Hangzhou Hi-Tech Zone (Binjiang), one of the state-level, hi-tech industrial zone, which has attracted innovation resources, optimized innovation environment, perfected regional innovation system continuously, acceleration and the cultivation of innovation-driven economic development growing endogenously. We have seen many innovation, the Hangzhou Hi-Tech Zone description in the showroom and also visited the testing center.





※ International Training Workshop on BeiDou Technology and its Applications

From October 13th to November 1st, 2019, the International Training Workshop on BeiDou Technology and its Applications which was organized by the National Remote Sensing Center of China and co-organized by the National Time Service Center of the Chinese Academy of Sciences was held in Xi'an, China. 2018 participants from the Centre: Ms. MARCIA ALINE RIBEIRO SILVA, Ms. LETICIA SANTOS LULA BARROS and 2019 graduate Mr. XIE WANG DANIEL from Brazil participated in the training.

Training of space information technology, including BeiDou Satellite Navigation System, Geographical Information System, Remote Sensing Technology and Space Probing Technology was provided for the participants in ASEAN and other developing countries to promote technology exchanges between both sides. Besides training, participants also visited Lishan observatory, satellite navigation CAPS system, Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences, Satellite signal monitoring in Haoping station, etc.

After the training, all the participants attended the Creative Course Design Display, Mr. XIE WANG DANIEL and Ms. MARCIA ALINE RIBEIRO SILVA won the "Outstanding Maneuverability Work" and "Outstanding Creativity Work" respectively.



Participants' Forum

※ Editor's note:

One world, one family. The Centre has enrolled more than two hundred (200) students from twenty-four (24) countries in "Space Technology Applications" program since it was founded in 2014. Participants from all over the world gathered, sharing their cultures, promoting civilization development, and writing a movement of multiculturalism.

※ Participants of the Centre won Distinguished Foreign Student Scholarships of Excellent Study & Outstanding Behavior

On the afternoon of December 18th, 2019, the awarding ceremony of Beijing Municipal/Beihang Scholarship (namely the new year performance) was held in the Academic Exchange Hall, Beihang University. Several hundred people attended the ceremony, including the leaders of International School, foreign students and participants of the Centre, etc.



Mr. Weng Jingnong, the Dean of International School, Executive Director of RCSSTEAP, expressed his congratulations to the students who have won the Beijing Municipal/Beihang Scholarship and encouraged them to further study to achieve better results. Subsequently, foreign students were awarded Distinguished Foreign Student Scholarships of Excellent Study & Outstanding Behavior.



After the ceremony was finished, a wonderful new year performance took place on the stage, organized by the Student Union in International School and performed by over 20 foreign students. Overall, the performances were diverse and splendid, receiving unanimous praise from guests, teachers and students.



The name lists awarded Distinguished Foreign Student Scholarships (Excellent Study & Outstanding Behavior) of Beihang University 2019

Distinguished Foreign Student Scholarships of Excellent Study (Postgraduates)

Students Number	Name	Nationality	Awards
LB1707203	MUSTAFA DANISH	Pakistan	The Second Prize
LB1702212	FAHAD AYESHA KOSAR	Pakistan	The Second Prize
LB1707202	BLALA HAMZA	Algeria	The Second Prize
LB1425209	MAHYAR NADERI	Iran	The Second Prize
LS1825215	RUBEL KANTI DEY	Bangladesh	The Second Prize
LS1825207	HASSAN ALI	Pakistan	The Third Prize
LS1825241	MUHAMMAD SHAN-E-HASSAN	Pakistan	The Third Prize

Distinguished Foreign Student Scholarships of Outstanding Behavior (Postgraduates)

Students Number	Name	Nationality	Awards
LS1825239	SURUCCHAWADI SEWEEWANLOP	Thailand	The First Prize
LB1802216	ELYAS FADAKAR KASARI	Iran	The Second Prize

※ New Year's Wishes

In 2020, Let us works together to make this world a place full of peace, symbol of love and respect of humanity. If God would just grant me one wish, I would want world's peace.



—Muhammad Abobakar, Pakistani, 2019 MASTA participant (SC&GNSS)

Happy New Year! It's time to forget past and celebrate a new start. May the coming year be full of grand adventures and opportunities. Let's toast to yesterday's achievements and tomorrow's bright future. Give wings to your dreams and let them come true in 2020!



—SIKDER, MUHAMMAD ABDUL ALIM, Bangladesh, 2016 DOCSTA participant

New year always embraces us with an opportunity to cherish our successes and learn from our hardships. Each year we set various goals in our lives like education, career and social life. While studying in Beihang University, it turned out to be a fantastic year for me to accomplish my goals. I learned to become a better person. I am looking forward to new year as a fresh start in reaping the blessings of time we have. It is also the perfect time to offer my support and wish good luck to my circles. Happy New Year to all.



—Ali Hassan, Pakistan, 2018 MASTA participant (RS&GIS)

On this occasion of new year 2020, i would like to thank Beihang university in particular International School staff and friends for your support and efforts to make us feel happy and comfortable in China our secon country. I wish for China peace and keep gowing, with my best wishes, health and Joy in the year ahead for all of you. You are now my family .



—Nivin Hasan, Jordan, 2019 DOCSTA participant

I wish peace and prosperity in the world. Only with peace and cooperation on all nations we can progress and move forward to a bright future for all. Let us forget all issues between us, join hands together for the sake of humanity and future of coming generations. Especially forums like UNO provides the opportunity for all to cooperate and step forward towards a brighter future. May we all realize the importance of standing with each other for ourselves and for making this Earth a place to live.



—SYED JAHANZEB HUSSAIN PIRZADA, PAKISTAN, 2018 DOCSTA participant

Wave a goodbye to the old and embrace the new with full of hope, dream and ambition. Wishing you a happy new year full of happiness!



—BLALA HAMZA, Algeria, 2017 DOCSTA participant

Wishing you a Happy New Year 2020 full of happiness and prosperity, bursting with fulfilling and exciting opportunities. Remember if opportunity doesn't knock, build a door. May this year give you the opportunity to follow your dreams, love like there is no tomorrow and smile unconditionally. May this year bring new happiness, new goals, new accomplishments and a lot of prosperity for this institution. Wishing you a new happy new year.



—Usman Ahmed Khan, Pakistan, 2019 MASTA participant (RS&GIS)

BEIHANG UNIVERSITY had never been my dream but now I know it is my destination. May 2020 makes us strong and smart to achieve our dreams together as one. Goodbye 2019, welcome 2020. Happy new year to all the BEIHANG UNIVERSITY community. I love you too much.



—ABALO ESSOHAN-EYOUEMOU, Togo, 2019 MASTA participant (SC&GNSS)

Beihang gives an excellent opportunity to us so that we can change our lives and think differently. I hope i can achieve academic excellence and physical fitness during my stay at Beihang as it also excellent facilities but educational and physical.



—Memon Zohaib Wahab, Pakistan, 2019 DOCSTA participant

Happy new year, everyone! I wish coming year comes to us with everything better than previous.



—Syed Mohammad Masum, Bangladesh, 2018 DOCSTA participant

Because we decide to join this Universe of emerging new ideals, it is important to have veritable achievements. May all efforts of this new road bring Goodness and Success to illuminate the year totally. Happy New Year to all.



—HOUNKPATI AKOUE TE JULIEN, Togo, 2019 MASTA participant (Micro-Satellite Technology)

Yet another new and a complete year is knocking on our door. Let us take lessons from the preceding years and step forward to make it alright in the coming days. Wishing you all a prosperous and successful 2020. Happy New Year.



—Shiblee SM Suja uddin Pathan, Bangladesh, 2017 DOCSTA participant

Additional Words

This issue of *Newsletter* recorded the main work of the Centre from November to December 2019, including a series of reports commemorating the 5th anniversary of the Centre, Record of the 5th anniversary, Participants of the Centre attended International Training Workshop on BeiDou Technology and its Applications, and Participants of the Centre won Distinguished Foreign Student Scholarships of Excellent Study & Outstanding Behavior, etc.

The 4th Governing Board Meeting of the Centre, the 5th anniversary celebration, Meeting of Directors of the Regional Centres and International Space Education Cooperation Forum were held in early December this year.

Standing at a new historical starting point, the Centre will strive to train more space technology application talents with higher level for developing countries, it will also continuously optimize the talent training mechanism to achieve sustainable development. The Centre will continue to present a better *Newsletter* and record the growth of the Centre, also integrate theory with practice and keep up with the development trend of global space science and technology education.

The next 5th anniversary, we will be better!





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)