

NEWSLETTER

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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)

An aerial photograph of a modern university campus. The central focus is a large, multi-story building with a prominent glass facade and a curved structure. The building is surrounded by a well-maintained courtyard with green lawns, hedges, and several small trees. The sky is blue with scattered white clouds, and the overall lighting suggests a bright, sunny day. Two semi-transparent white boxes with blue text are overlaid on the image.

Consultation

Contribution



Shared Benefits

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» The cover picture is selected from works of
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"Together we blaze, scatter we shine"

———words of advice for graduation

The days and months fly by, another group of participants graduated from the Centre successfully in this gardenia blossom season. In the brilliant laughter they harvest bronzing degree and considerable progress. Congratulations!

This is a season of harvest yet a season of separation. Your wings are full, grand plans unfolding ahead of you, and you will fly to a higher and more beautiful peak of life. The Centre is reluctant to part with you, but also bless your next journey. With your footsteps, the Centre will travel to every corner of the world; because of your resplendence, the Centre will become the hall that more people yearning for.

“Idle boast the strong pass is a wall of iron. With firm strides we are crossing its summit.” Graduation is the end of one chapter in life, also the beginning of a new one. The future is bright, the road may be tortuous, we hope you can guard against arrogance and rashness and make persistent efforts, to develop the entrepreneurial spirit you have gained from the Centre and continue to carry it forward step by step to make new progress.

This year marks the 5th anniversary of the establishment of the Centre. In the past five (5) years, the Centre has witnessed the transcendence of hundreds of participants from all over the world and the successful graduation of ninety (90) MASTA&DOCSTA participants. We believe that the current participants of the Centre, will be the future scientists and engineers active in the front line of aerospace research in various countries. Regardless of the season changes or the distance, the Centre will accompany you to grow together and continue to be dedicated to provide a better learning environment and space technology education for more participants.

Parting is for a new encounter. One hundred years ago, the Chinese thinker Lu Xun had hoped for the younger generation that they would be able to “live happily and behave reasonably” in the new society, wishing they would “give as much light as they can produce” . On top of the farewell, we will pass these two sentences to you, in hope that in future, you will be able to contribute to the construction and development of the community of human destiny, to “give as much light as you can produce” and “live happily and behave reasonably” in your respective countries.

Finally, we hope that when you make departure alongside the expectation and enthusiasm of the future, you will also get precious memories and an unbreakable friendship. We believe that every member of the Centre, “together we blaze, scatter we shine” .

We are looking forward to meet you again in China or somewhere else in the world!

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 Space 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 high-light activities and showing stories of talent cultivation in space science and technology.

Journey of Chinese Space and Culture 2019

✧ The 7th Stop: SuperMap Software Co., Ltd

On May 16th, 2019, 2018 MASTA and DOCSTA participants of the Centre visited SuperMap Software Co., Ltd. Here is the journal from MIZANUR RAHMAN, 2018 MASTA RS&GIS participant from Bangladesh:

“At first, Ms. Nicole Chen provided us some basic information about the company as follows: Super Map is one of the leading GIS software and service provider which established on June 18, 1997 and has 38 branches with more than 4000 employees. It is the first listed GIS enterprise in China which covered 31.6% of the GIS market in China. They have more than 700 partners including different famous companies like Huawei, Microsoft etc. Besides, they work in different countries including Japan, South Korea, Malaysia etc. The four key technologies of Super Map GIS include Cross-platform GIS, Cloud and Client Integration GIS, new generation 3D GIS and Big Data GIS.

After giving the basic information she showed us Research and Development Management section on the 2nd floor, also work pattern of different sectors and smart city plan by a presentation.

Then, Mr. Bill Lee gave us a detail introduction by a presentation about Super Map and it's works. Then he patiently answered all questions of students about the data stations all around the world. Mr. Bill Lee also introduced the mobile and desktop-based software developed by Super-Map.

This visit was really important for me as a student in RS-GIS major. It shows new things and gave me good idea about the work pattern of such a big GIS-based software company.”

SuperMap Software Co., Ltd is an innovative GIS platform software and service provider which was founded in 1997. SuperMap GIS product line is composed of a full range of GIS platforms, including Cloud GIS,





Component GIS, Desktop GIS, Mobile GIS and client SDK. SuperMap GIS is widely used in various fields and has become an advanced GIS platform software in China since 2015. SuperMap has established companies in Hong Kong and Tokyo for international business development. Also, SuperMap has developed lots of agencies and partners all over the world including South Korea, Malaysia, etc. to make more clients benefit from their leading GIS technology.

※ The 8th Stop: National Satellite Meteorological Center

On June 20, 2019, the Centre organized the 8th technical visit to Information National Satellite Meteorological Center. 2018 MASTA and DOCSTA participants of the Centre paid a visit on invitation.

Senior Engineer Ms. Zhu Jie gave a systematic introduction to the participants, including the organization of the satellite meteorological center, the Fengyun meteorological satellite project and the satellites that have been launched in recent years. In addition, she described the LEO satellite FY3D, 5+2 ground station which was launched in 2017, and China's first monitoring carbon dioxide satellite "Tansat" in detail. The introduction also mentioned that satellites were used in a wide range of applications, from climate prediction, development and appliance of cloud products to natural disaster monitoring such as sandstorms, fires and environmental monitoring. After the introduction, the participants raised questions and got patient answers.

The National Satellite Meteorological Center was established on July 1, 1971. It is an affiliated institution of China Meteorological Administration. As a national-level scientific and technological public welfare and basic business unit, it is responsible for formulating the development plan for China's meteorological satellite and satellite meteorology; the operation of the system and operational management of on-orbit meteorological satellites; the construction of meteorological satellite application systems; engaging in scientific and technological research related to satellite meteorology; carrying out meteorological satellite data and product applications and services; undertaking space weather monitoring and early warning services and system construction; providing technical guidance for meteorological departments for satellite remote sensing applications, etc.





※ The 9th Stop: Information Management Center of the Supreme People's Court of the People's Republic of China

On June 25, 2019, the Centre organized the 9th technical visit to Information Management Center of the Supreme People's Court of the People's Republic of China.

Under the guidance of the staff of the Supreme People's Court and Mr. Gao Guozhu, professor in the Law School of Beihang University, the participants visited the Information Management Center of the Supreme People's Court. Subsequently, the experts of the Supreme People's Court gave a lecture entitled "Accelerate the Construction of Smart Court, Promote the Modernization of Trial System and Trial Capacity", demonstrated to the participants the application of data management service platform in serving the people and trial execution.

Ms. ANA PAULA CASTRODEPAULANUNES, a Space Law and Policy participant from Brazil, reported that the information technology system of the Supreme People's Court Information Center is quite mature. This visit gave Centre participants a comprehensive understanding of the Chinese legal system and its business platform, and technologies over there are worth to be considered as reference.

The development of space science and technology is closely related to information construction. The Information Center of the Supreme People's Court is the competent department of information construction of Chinese courts, and plays a pivotal role in this field in the world.



❖ Review and Summary

From February to June, 2019, the "Journey of Chinese Aerospace Technology and Culture: 2019" series of activities successfully completed. The 2018 MASTA and DOCSTA participants visited nine space technology related units, participated in short-term training and received a great deal.

"Journey of Chinese Aerospace Technology and Culture" is an annual practice activity organized by the Centre to give participants comprehensive and intuitive understanding of developments of China's space achievements and technologies, to integrate both theory and practice. Through communication with relevant units, the Centre provide professional sessions and lead participants to take part in relevant visits in the Chinese space field.

In the past five (5) months, the participants visited:

❖ **National Time Service Center (NTSC)**

❖ **National Disaster Reduction Center of China (NDRCC)**

❖ **Institute of Remote Sensing & Digital Earth (RADI), CAS**

❖ **International Centre on Space Technologies for Natural and Cultural Heritage under the Auspices of UNESCO (HIST)**

❖ **The Twenty First Century Aerospace Technology Co. Ltd (21AT)**

❖ **Land Satellite Remote Sensing Application Center, MNR of China Surveying and Mapping Museum of China**

❖ **SuperMap Software Co., Ltd**

❖ **the National Satellite Meteorological Center (NSMC)**

❖ **Information Management Center of The Supreme People's Court**



Through these activities, the participants get a deep understanding of the applications, development trends and status of China's space technologies, providing practical support for their theoretical study which is significant for their future career development.

In the future, "Journey of Chinese Aerospace Technology and Culture" will continue to be carried out. The Centre will develop more practice based visits, providing more opportunities for new participants to learn and practice, organizing more fruitful activities, expanding participants' horizons while enriching their life during the program, enable them to perceive China, understand China and integrate into China.





Education and Training Programs

✧ 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, the enrollment has been completed. In order to closely follow the development of Space Technology and promote Centre development, we actively create conditions to invite professors and experts to give lectures for the participants, meanwhile provide major-related internship to broaden the vision of the participants and expand the influence of the Centre.

✧ Division Director of Department of International Cooperation, CNSA gave lectures to Centre participants

On May 11, 2019, Ms. Jiang Hui, Division Director of Department of International Cooperation, CNSA, gave a lecture on "Policy, Regulation and legislation of China" for Space Law and Policy participants of the Centre. Elaborated China's history and status on aerospace from four (4) perspectives: Overview of CNSA, China's space activities, China's space policy, and "One Belt and One Road" space information corridor. Hot issues also explained during the lecture.

The participants expressed their gratitude because the lecture was rich in content and easy to understand, they knew the frontier issue of China's aerospace better and inspired by it.

After the lecture, Ms. Jiang Hui also visited the Poverty alleviation sketch exhibition "Folks of Yangpo village" created by Prof. Gong Haoqin, School of Mechanical Engineering & Automation, BUAA.



※ Participants of the Centre attended SuperMap training

From 30th to 31st May, 2019, the Centre arranged a two-day hands-on training in SuperMap Software Co., Ltd for 2018 MASTA & DOCSTA participants to learn and use SuperMap products and their application in the field of Remote Sensing & Geographic Information System (RS&GIS). Here is the journal from ALI HASSAN, 2018 RS&GIS participant from Pakistan:

"The main content of training focused on highlighting technology of SuperMap GIS with 3D capability. Training program, trial software and exercise data provided by SuperMap to all participants for practice. Training experts Mr. Li Qinci and Ms. BinBin introduced the program and conducted the whole training for participants.

On first day, introduction to SuperMap iDesktop.NET 9D was given by explaining fundamental management structure and data import and export. In addition, digitizing map, 3D flyover a specific route and 3D analysis was demonstrated. Participants were given the opportunity to interact with trainers all the time to make the training more effective and interesting.

On second day, Mr. Li Qinci gave the agenda of the day about the activities and examination for certificate. Then Ms. BinBin started the training with 3D Spatial Analysis using SuperMap iDesktop 9D product and also 3D Thematic Maps and 2D Network Analysis."

After completing training program, participants who successfully passed the online test got their certificates.



Participant Feedback

I had the opportunity to visit SuperMap Software Co., Ltd twice as a RS&GIS MASTA participant of Beihang University. During the training I got the chance to explore SuperMap software iDesktop (trial version) in detail and as GIS development professional I can assure that I found SuperMap iDesktop more easy, robust and adoptive than other competitive GIS packages in market. Facilities, environment and staff of SuperMap were also very professional. Company is doing a great work in capacity building and talent hunting. Internship opportunities, reward programs and competitions all contribute towards betterment of young professionals.

I am personally interested in exploring SuperMap WebGIS development platform both for computers and mobile devices. It is suggested that at least one student be selected as SuperMap assistant for work and business in student's respective country and major cities. I am interested in be assigned in my country & city (Pakistan, Islamabad). In this way SuperMap officials can take benefit of student's local knowledge and students can also learn. I am looking forward to learn other products of SuperMap and participate upcoming activities during my study in China.

—Mr. HASSAN ALI, 2018 RS&GIS participant from Pakistan



Exercise training included:

Installation of SuperMap iDesktop.NET 9D (2019); Import and export; Creation of thematic maps; Digitization, Ortho registration; 2D Network Analysis; Pipeline Burst Analysis; Flooding Analysis; Visibility Analysis; Isoline Analysis; 3D Analysis and others.

The training was very comprehensive and provide alternative to analyzing remote sensing data. I will use it to analyze my research work.

—Ms. AGBAJE HALIMAH ADEBIMPE, 2018 RS&GIS participant from Nigeria

The training in SuperMap was interesting, and the capacity of this software for visualization is outstanding. We learned some tasks such as flood analysis and get familiar with how to use this software for analyzing data.

I think it could be better if we had a part for learning the logic behind the software, big picture of the different parts of it, the step by step development, future plan of this great software and comparing with other existing ones.

—Mr. BIJAN MOUSAVI, 2018 GNSS participant from Iran



SuperMap is the first listed GIS enterprise in China which covered 31.6% of the GIS market in China. They have more than 700 partners including different famous companies like Huawei, Microsoft etc. They also work in different countries including Japan, South Korea, Malaysia etc.

From my previous experience working with other GIS software, the iDesktop from SuperMap is easier for geospatial design and planning. It has a lot of options for analyzing the data in different ways. The 3D analysis and viewing option gave us the feeling of real time animation. Also, the analysis and planning tools are awesome!

—Mr. MIZANUR RAHMAN, 2018 RS&GIS participant from Bangladesh

It was an excellent experience for me to attend this kind of training that organized by SuperMap company, the main content focuses on the highlighting the 3D technology of SuperMap GIS, that is important and useful technique which is practical in many applications of GIS.

After comparing with some other softwares like ArcGIS and QGIS I found that SuperMap software is the leader in this area of technology by providing advanced processing features and tools.

But I have a few notes and recommendations about training first, the duration should be more than two day because that intensive topics needed more time to be understood. Second, SuperMap products contain more advanced tools I hope in future we have a chance for training about them.

Finally, thanks to SuperMap Software Co., Ltd especially Mr. Li Qinci and Ms. BinBin.

—Mr. MOHAMED GAMAL ELAMIN OMER, 2018GS&GIS participant from Sudan

The interesting part of iDesktop is the 2D and 3D integration; which includes data, display, query, and analysis integration. It helps users to have a 3D scene of 2D data, create thematic maps, perform fast modeling, perform attribute query, etc. Meanwhile, browsing, editing, analysis, etc. for 3D data are also provided.

During this training, through a few interesting exercises we learned how to use SuperMap software, how to convert a 2D map to a 3D map, how to record a video from a 3D city, how to digitize, how to put effects such as fire and water in a 3D map, how to do different types of analysis, how navigate between a few stops and so on. This was a very good opportunity for students to have some practical experience and get some idea about what they want to do in the future.

—Mr. ABOLFAZL ROOSTAEIPARIDARI, 2018 Micro-satellite Technology participant from Iran

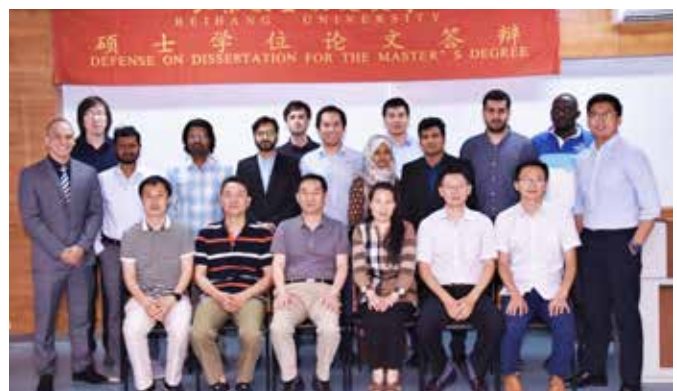
※ 32 participants of the Centre successfully completed their thesis defense for master's degree

From May 29 to 31, 2019, the Centre organized the thesis defense for thirty-two (32) 2017 participants from three (3) directions: GNSS (Global Navigation Satellite System), RS&GIS (Remote Sensing and Geographic Information System) and Small-satellite Technology.

At the defense meeting, each participant systematically elaborated the research work of his/her thesis from the research background, research objectives, research contents, research methods, research conclusions and other aspects. Experts from the defense committee evaluated their thesis from topic selection, content, logical structure, research methods, writing standards and all other aspects, and gave comments and suggestions on the participants' research work and paper writing. Participants have been encouraged to explore, practice and innovate in their future academic career, and strive to become experts and backbones in the field of space technology in their countries.

2017 participants are mainly recommended by the Asia-Pacific Space Cooperation Organization (APSCO) Member States, government departments and other regional Centers etc., who are from eleven (11) countries like Bangladesh, Bolivia, Brazil, Iran, Mongolia, Nigeria, Pakistan, Peru, Thailand, Turkey, Venezuela, etc. They are young professionals and technical backbones and government reserve talents in the field of space technology in their respective countries.

According to the requirements of the training program of Beihang University, there are still four (4) participants who failed to meet the graduation requirements this year, three (3) of them applied for postponement of graduation, and one (1) participant was suggested to drop out.



Cooperation and Exchange

✧ Editor's note:

In order to expand its influence and promote long-term sustainable development, the Centre actively promote communication and cooperation with other countries, seeking new partners. From May to June, 2019, Mr. Carlos Augusto Teixeira de Moura, Director of Brazilian Space Agency, Professor Luis, head of the Department of External Relations at the University of Chile and Dr. Shirish Ravan, Director of the Outer Space Department of the United Nations (UNOOSA) visited the Centre and hoped to cooperate with the Centre to contribute to the cultivation of space technology talents and achieve win-win development.

✧ The President of the Brazilian Space Agency (AEB) visited the Centre

On May 24, 2019, the President of the Brazilian Space Agency (AEB), Colonel Engineer Carlos Augusto Teixeira de Moura visited the Centre. Ms. Jiang Hui, Division Director of Department of International Cooperation, CNSA, Prof. Weng Jingnong, Executive Director of the Centre and Dean of International School, Beihang University warmly welcomed the guest.

On behalf of the Beihang University and the Centre, Mr. Weng Jingnong first extended a warm welcome to Mr. Carlos's visit. He briefly introduced the overall situation of Beihang in terms of personnel training, scientific research and global cooperation, and reviewed Center's talent training and achievements in international cooperation with AEB since its establishment. At the end, hoped more Brazilian students will come to China for studying.

Mr. Carlos thanked the Centre for cultivating many outstanding aerospace talents for Brazil. He said that last year was the Brazil-China Space Cooperation 30th Anniversary. He is very pleased that China-Pakistan cooperation has achieved great results and has successfully launched four (4) China-Brazil Earth Resources Satellites. The AEB attaches great importance to its partnership with Beihang University and hopes to continue the cooperation with the Centre in future, enrich the cooperation and achieve win-win development.

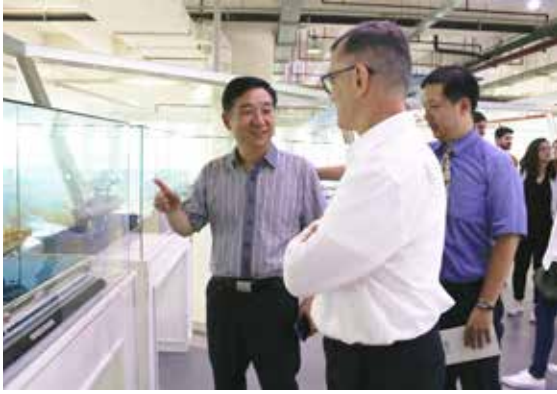
After that, the two sides conducted in-depth discussions on international education cooperation. Mr. Weng Jingnong said that Brazil as a Member State of the Centre, has made positive contributions to its development. He also sincerely invites Mr. Carlos to participate in the Meeting of the Governing Board of the Centre and the 5th anniversary of the Centre in the second half of this year, which accepted by Mr. Carlos with pleasure.

After the meeting, Mr. Carlos exchanged views with Brazilian students who studying for a Master's degree at the Centre to learn more about their study and life, he encouraged them to cherish time and devote themselves to research to inject new vitality into the space construction of China and Brazil in the future.

In addition, Mr. Carlos also visited the Aerospace Museum, and laboratories for small-satellite ground monitoring and control center, Remote Sensing and GIS teaching; Plus facilities such as distance learning and video conference room, STA library, classrooms, Newsletter and publication display window, etc.

Currently, the AEB has recommended ten (10) postgraduates to the Centre, six (6) are currently studying and four (4) of them have been graduated.







※ Head of the Department of External Relations at the University of Chile visited the Centre

On June 5, 2019, a delegation of four (4) people led by Prof. Luis Vargas Diaz, head of the Department of External Relations at the University of Chile, visited the Centre. Prof. Weng Jingnong, Executive Director of the Centre, Dean of International School, Beihang University, warmly welcomed the guests.

Prof. Weng extended a warm welcome to Luis and other members on their visit and briefed the overall development of Beihang in the fields of talent cultivation, scientific research and global cooperation in recent years, and looking forward future educational cooperation with University of Chile in the fields of satellite communications, satellite navigation and small-satellite technology. Prof. Luis expressed his gratitude to the



Centre for the hospitality and abridged teaching and research of the University of Chile in the field of space science. During the talks, both sides exchanged views mainly on short-term training and teacher exchanges. Heads of each professional direction of the Centre participated in the discussion.

After the meeting, the delegation paid a visit to the laboratories of small-satellite ground monitoring and control center, and Remote Sensing and GIS teaching; and facilities such as distance learning and video conference room, STA library, and training classrooms. Also, they checked the Centre construction development gallery, window display of Newsletters and publications, participant archives and graduation papers.

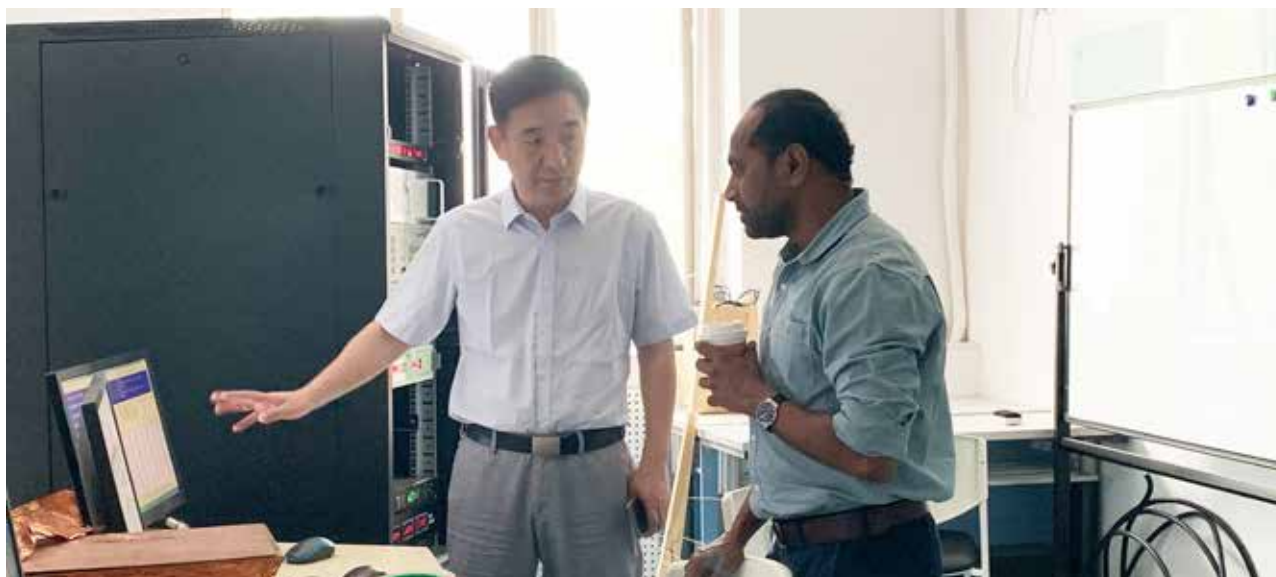
Founded in 1842, the University of Chile is one of the oldest and most prestigious public universities in Latin America, as well as being one of Beihang's most important partners in Latin America. The university has many notable alumni, including twenty (20) Chilean presidents, two (2) Nobel Prize winners, and one hundred and eighty-seven (187) national laureates. It is ranked 208th according to the QS World University Rankings 2019. Beihang signed a memorandum of cooperation and student exchange agreement with the University of Chile in 2013.



✧ Dr. Shirish Ravan from UNOOSA visited the Centre

On June 9, 2019, Dr. Shirish Ravan, Centre coordinator of United Nations Office for Outer Space Affairs (UNOOSA) visited the Centre. Dr. Weng Jingong, Executive Director of the Centre, Dean of International School, Beihang University and staff of the Centre, warmly welcomed the guests. Both sides exchanged views on co-organizing the UN-SPIDER annual meeting and its 10th anniversary event, the construction of the Centre alliance and the development of the Centre.

After the meeting, Dr. Shirish Ravan visited the small-satellite ground monitoring and control center, distance learning and video conference room, Remote Sensing and GIS teaching laboratory, Centre archives and STA library, training classroom, Centre construction development gallery, window display of Newsletters and publications, participant archives and graduation papers, etc.



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 to broaden their international horizons, which will help to expand the influence of the Centre in return.

✧ The Centre held the "Aerial Exploration and Cultural Communication" seminar

On June 28, 2019, the "Aerial Exploration and Cultural Communication" seminar was held at Beihang University. Mr. Pang Zhihao, Researcher of China Academy of Space Technology and Chief Editor of "International Space" magazine; Mr. Ding Zhiyong, Deputy General manager of AVIC Culture; Mr. Wang Xudong, Cultural Scholar; Mr. Han Guojun, Curator of Air and Space Museum; Mr. Liu Hu, professor in the School of Aeronautic Science and Engineering, Beihang University; Dr. Gong Haoqin, Art Director of the Centre; Ms. Wang Xin, Brand Designer of the Centre and Ms. Guo Yuanyuan, Programme Manager of the Centre attended the meeting. The meeting was hosted by Dr. Weng Jingnong, Executive Director of the Centre and Dean of International School, Beihang University.

Dr. Weng Jingnong briefly introduced the Centre's exploration and achievements in aerospace cultural communication, global cooperation, talent cultivation and educational research. The participating experts reached a lot of consensus and cooperation intentions concerning the aerial cultural communication mode, content planning, space culture and public life, combination of aerial culture development with youth growth, science and art and development of Centre platform.

After the meeting, the participating experts paid a visit to the laboratories of small-satellite ground monitoring and control center, Remote Sensing and GIS teaching and facilities such as distance learning and video conference room, STA library, and training classrooms. Also, they checked the Centre construction development gallery and window display of Newsletters.





※ Workshop on the Application of Global Navigation Satellite Systems

On June 24-28, 2019, the Workshop on the Application of Global Navigation Satellite Systems was held in Fiji, which was supported by the United Nations Office for Outer Space Affairs (UNOOSA) and hosted by the University of the South Pacific. Experts and scholars from twenty-eight (28) countries around the world participated in the workshop. The Chinese delegation made reports concerning the construction and development of the Beidou system, Beidou's application solutions in China's natural disaster emergency management, ground-based augmentation systems and capacity building of GNSS education in China and its enlightenment during the workshop. Ms. Farah Uzma, 2017 GNSS participant from Pakistan, gave report during the workshop with the theme "GNSS Receiver Autonomous Integrity Monitoring based on Vector Tracking Loop".



Group photo of Chinese delegation



Researcher Jing Guifei making report at the workshop



Ms. Farah Uzma giving a report at the workshop

During the meeting, Researcher Jing Guifei, Professor Shi Chuang and representative of the Centre met with Prof. Sushil Kumar, Associate Dean of the Research & Graduate Affairs, School of Engineering and Physics, USP. The two sides reached an agreement on the construction of Beidou, the establishment of navigation laboratories, data processing, academic and student exchanges and cooperation on remote sensing. They signed a memorandum and reached a series of practical and feasible cooperation consensuses on detailed matters. By the time, Beihang University will provide technical support for the USP infrastructure, USP will also provide the necessary venues and facilities for the construction of the navigation laboratory. Prof. Kumar expressed his expectation for the future cooperation between the two (2) universities, and invited Beihang University to participate in the Pacific RS&GIS User Conference which will be held in Suva in November this year together with the Pacific GIS and Remote Sensing Committee to discuss the implementation of application cooperation.



Group photo in front of data server room



Present Beidou model to USP

Founded in 1968, the University of the South Pacific (USP) is located in Suva, Fiji. It is one of the only two (2) regional universities in the world and is owned by twelve (12) member states. The University has a branch campus in several South Pacific island countries with an excellent location. The establishment of a partnership between Beihang University and USP is of great significance for the further development and application of China's satellite navigation system as well as the expansion of China's space influence.

Participants glamour

✧ Editor's note:

People of the world are families. The Centre has enrolled more than 200 participants from various countries in "Space Technology Applications" program since it was founded in 2014. Participants from all over the world gathered here to share and exchange their culture, promote civilization development, make incredible progress and compose a movement of multiculturalism. Apart from the study, the Centre organized intercultural activities per month in the form of class meetings, sharing cultural experiences and deepening the connections between the participants. Meanwhile, the Centre creates conditions to provide opportunities for participants to show themselves on a larger stage. This year, another batch of participants successfully graduated from the Centre. This column shows the messages from 2017 and 2018 participants to provide new participants a better understanding of the study and life at Beihang University.

✧ Participant of the Centre interviewed by Conference on Dialogue of Asian Civilizations (CDAC)

From May 13 to 16, 2019, the Conference on Dialogue of Asian Civilizations (CDAC) was held in Beijing. Xi attended opening of Conference on Dialogue of Asian Civilizations and delivered a keynote speech. Mr. MUHAMMAD ARSALAN, 2017MASTA GNSS Pakistan participant of the Centre was interviewed by the conference.

Here is the full text of Mr. MUHAMMAD ARSALAN's interview:

"大家好，我是来自巴基斯坦的阿萨兰，现在在北京航空航天大学攻读全球卫星导航系统专业。是不是听起来很高大上？其实简单来说，就是我们现在日常很多人都离不开的导航和定位。

这里是北京航空航天大学国际学院，我是联合国附属空间科技教育亚太区域中心（中国）的学生。

I have been studying in China for last two (2) years, I love Chinese traditional culture and I am quite fascinated by Chinese modern civilization. In recent years, China's technology is developing so fast, for example the '新四大发明', numerous high-speed train like '高铁' and mobile payment, also 5G and Beidou navigation system are very powerful. Now the Beidou system has been applied to many countries, for example Kuwait Construction, Myanmar Precision Agriculture, Maritime Piling in Maldives, Cambodian UAVs and Pakistani Airport Timing --- to provide accurate navigation and positioning services. Beidou will provide global coverage to the world by 2020. 北斗是中国的，更是世界的，这就是中国开放包容的心态。

中国有句老话：人之相知，贵相知心 (the best part of knowing someone is being understood and understanding). In my

perspective, China as a developing country understands the motive of other developing countries like Pakistan to seek development, and provided them help in economy and technology without reservation. China wants to seek development with all developing countries. In Beihang university, my classmates come from twelve (12) different countries, we attended several training and high-end forums together and I am highly fascinated by the latest trends and development I have learned from that."



※ Intercultural Activities

In order to promote the cultural understanding of the participants and deepen their understanding of China and the world, the Centre organized intercultural activities in the form of class meetings every month. The activities mainly use texts, pictures and videos as a carrier to introduce the basic conditions of customs, historical development, religious beliefs and traditional culture of China and other countries.

Through the first year of the class meeting, the participants were able to understand the traditional Chinese festivals, ethnic distribution and profiles, food, etc., and further understand other countries such as Bolivia, Thailand, and Bangladesh.

In the next semester, the Centre will continue to hold intercultural activities, further enrich the content, innovate the form, improve the quality and create a warm family atmosphere for all Centre participants.



✧ Messages from participants

For 2017 graduates:

✧ About experience and suggestions:

I want to encourage new students to take every opportunity the university offers. The International School offers several technical and industrial visits during the semester study besides the daily classes and laboratories, which will bring you experience and practical exposure.

My advice to all of you is to study hard. You're building the path to your future success. So always stay strong, be confident, work hard and never lose hope.



—Mr. MUHAMMAD ARSALAN, 2017 GNSS participant from Pakistan

Do your best in hardworking and studying while enjoying the life in China. Some extra activities besides studying are necessary in order to accomplish a nice living experience in a country, which is quite different from western and even Asian countries. Although the study program lasts for two years, time goes faster than you think; so not only study in daily life is important, but also to learn from our mistakes and convey good messages to younger generations.



—Mr. CONDORI MENDOZA MARCELO FERNANDO, 2017 RS&GIS participant from Bolivia

Hereby appreciate the Dean and entire staff of International School for their collective impacts in my educational pursuit. The tremendous knowledge acquired at Beihang University cannot be estimated and I have gratefully appreciated all the teachers. Thank you all.

I will kindly put the following forward for the new students: it is obvious that Beihang University is the citadel of knowledge and educational based University. Study at Beihang University is a great opportunity to build your career because sound knowledge is impacted. I will first tell all the new students to obey every rule and regulations of Beihang University. I will advise all the new students to study hard to achieve a great goal and make University and their respective countries proud.



—Mr. ISIAKA LUKMAN ALAGE, 2017 participant from Nigeria

✧ About study at Beihang:

Beihang offers remarkable research facilities, an impressive Industry-University collaboration, flexible course structure, which makes the Centre one of the best choices for postgraduate studies. The course content is designed to benefit all

specialties of MASTA program, and it is highly streamlined as per the requirements of Space Agencies of Member States. During the entire study period, we found the administration of MASTA program very professional, helpful and dedicated.

I have gained good quality education and valuable learning experience related to Space Technology Applications by participating in several academic and cultural exchange programs at national and international forums, which will definitely assist me in contributing to society as an engineering scientist.



—Mr. MUHAMMAD ARSALAN, 2017 GNSS participant from Pakistan

Actually, I really found everything about the study at Beihang perfect because I earned valuable experiences in every program provided by Beihang. The classes were very awesome because each teacher is willing to teach until you understand all aspects of the course and the classes are mostly very interactive. I learned many things, particularly programming language which I never dreamed to learn but with the support of my supervisor and teacher, I learned some programming languages which enhanced my ability and laid a solid foundation for the future.



—Mr. ISIAKA LUKMAN ALAGE, 2017 participant from Nigeria

Personally, I would say the best thing in Beihang is the library. I describe it as a peaceful and really convenient place for study, doing homework and thinking. The environment is appropriate to take advantage of time. Furthermore, going there makes us conscious and responsible because it requires waking up early in order to get a good sit. Another very good issue associated with the MASTA program is the opportunity to interact with several professional staff members in space technology applications from different companies, universities and public institutions, because the technical visits are very productive activities from the study program.



—Mr. CONDORI MENDOZA MARCELO FERNANDO, 2017 RS&GIS participant from Bolivia

✧ About thesis:

I chose my topic with my supervisor based on my background and SSS-1 project. It was related with my background and helped me to increase my engineering knowledge. I was good at cad/cam design and with my thesis I increased my ability at mechanism design as well.



—MELİH TOKLU, 2017 Micro-sat participant from Turkey

I choose my thesis topic with the guidance of the technical manager from my workplace back in my country and research supervisor from Beihang. The title of my Thesis is "Design of wide band LNA for Satellite Navigation Receivers", which is relevant to the work in my organization because I work in the Satellite Ground Control Facility and LNA is an integral part of Satellite Telemetry Ground Station Receiver chain.



—Mr. MUHAMMAD ARSALAN, 2017 GNSS participant from Pakistan

My supervisor required me to work deeply on the subject similar to the Team Pilot Project. I appreciate his support a lot because he provided me software tools which were very helpful for understanding the subject and generating results. I think my thesis topic is completely practical because lots of countries have problems concerning deforestation as a consequence of non-proper resources management. Moreover, the forest biomass retrieval by microwave image remote sensing is still complex, so there is a huge opportunity for future analysis and development.



—Mr. CONDORI MENDOZA MARCELO FERNANDO, 2017 RS&GIS participant from Bolivia

The selection of the thesis topic was a mutual agreement between me and my supervisor, the thesis topic is a problem-solving topic that address the issue of inadequate satellite data distribution in my country. The results will contribute immensely to the growth of Nigeria Space Agency.



—Mr. ISIAKA LUKMAN ALAGE, 2017 participant from Nigeria

For 2018 participants:

✂About Beihang and its life:

Inspiring, fulfilling and challenging are just few words that come to my mind when I have to describe my time spent at Beihang University. I seized numerous opportunities to enhance my experience academically, socially and spiritually. Beihang is deeply committed to enriching educational and inclusion through ongoing efforts to offer the best courses taught by the best lecturer in that relevant field as well as cultivating a welcoming campus climate for all students. The inclusive curriculum, global experiential learning opportunities and the possibilities of being able to learn outside the classroom were what attracted me to study at the Beihang University. For me, apart from the diversity of viewpoints and ideas, the dynamism in conducting research at the Beihang University School of law has enabled me to appreciate legal studies from different and unique expertise and from different standpoints. Most importantly, I've always wanted to be at the forefront of legal studies and to pursue

exclusive extracurricular experiences. At Beihang University, I get to enjoy the best of both.

Even as a foreign graduate student, I have many opportunities to interact with professors and research experts from all over the world. For example, I was invited to participate the Manfred Lachs Moot Court Competition China National Round and I got the opportunity to participate in United Nations Space Law Forum in Changsha. Most importantly, being able to work alongside researchers from relevant expertise is one of the rarest opportunities anyone outside Beihang university can get. Without Beihang's support, all these opportunities were not accessible to me.



—Ms. SURUCCHAWADI SEWEEWANLOP, 2018 Space Law and Policy participant from Thailand

Beihang University is like my second home. Dean, professors, staff and students are nice and friendly. We share information and take care of each other. I also impressed by kind and polite Chinese people. Beihang University is safe and all the staff are so kind and helpful, they make me feel warm, safe and convenient like being at home. Beihang is a good university, I enjoy meeting Chinese people including kids, teenage, adults and elders who spent their time to do their activities together in Beihang University.

I impressed by the education system and environment here. Beihang University has high quality professors, and always accommodate good facilities for studies and learning; besides, it also provide great opportunities to cooperate with the related space organizations.



—Ms. ARPAWADEE NUNTREE, 2018 Space Law and Policy participant from Thailand

The time I spent at Beihang University has been meaningful so far. Starting from studying with people from different background and languages, experiences and personalities, skin color and exposure, I learned to have more patience. The classes were superb with different lecturers painstakingly expressing themselves and coming low to the level of understanding of the students. The practical experience of all that was taught made me more prepared as a student to the real challenges and expectations. The visits to different places were eye-opener for me and I explore more places in China.



—Ms. AGBAJE HALIMAH ADEBIMPE, 2018 RS&GIS participant from Nigeria

Before coming to China and Beihang University I was a little concerned about the language, food and lifestyle difference but after a couple of days all my concerns were gone away. I found the university, people and places very pleasant. Staying inside

campus was very convenient and everything was available at doorstep. Cooperation from university teachers and staff really impressed me. It was very pleasing to know that everyone likes to help, guide and educate us about studies and life here.



—Mr. HASSAN ALI, 2018 RS&GIS participant from Pakistan

✂About studying at Beihang and Beijing:

Beijing is China's capital city with a history rooting back more than 3000 years, which is full of life, rapid growth, constant technology development and lots of residents. Whether you are exploring old temples, Forbidden City or simply navigating within a modern university campus like Beihang University, you would encounter the unbelievable experiences in this ginormous mega city. Especially, Beihang University campus life offers many modern facilities for students to enrich the campus experience, boost enrollment and stay competitive. It offers a variety of physical spaces where students can eat, socialize, network, study and relax.

Beihang University has become a center for teaching and research embracing diverse branches of learning, especially in Space Technology Applications, the university has effectively combined research on important scientific as well as legal subjects with the training of personnel with a high level of specialized knowledge and professional skill as demanded by the country's modernization. Therefore, if you get a chance to study here, you need to be ready to embrace all the knowledge and prepare your body for the hard work awaited. Lastly, studying in Beijing also teaches you a lot about a culture and its people. From the food I ate to the hospitality I received; I was really able to immerse myself in such a diverse culture. Now, I find myself more willing as a student to collaborate and work with people of different cultures. Becoming immersed in Chinese culture while studying in Beijing can be positively life changing.



—Ms. SURUCCHAWADI SEWEEWANLOP, 2018 Space Law and Policy participant from Thailand

I'd like to emphasize that besides the high educational level, I have also tried my best to use the school programs to get closer to Chinese culture and current situation of the country, trying to make great use of the Chinese language classes, technical visits, etc.

It's a good opportunity to study at Beihang University, I highly recommend to my friends and family to consider study here in their plans.



—Ms. LINARES KATHERINE GREACE, 2018 Space Law and Policy participant from Peru

I have already told my family, colleagues and friends about the studying experience here. Beihang University is one of the prestigious institutions of China, especially in Space Technology. Except studying, living in the Capital city is also a wonderful experience where one can witness technology, culture, science and art together. Beijing is fully developed city equipped with modern day facilities. From transportation to infrastructure, from technology centers to art exhibitions it is full of life and joy. Hard work is definitely an important part of life here.



—Mr. HASSAN ALI, 2018 RS&GIS participant from Pakistan

Beihang University is the Top-Ranking University in China which expert in Aeronautics and Astronautics. It has a great impact on research and development in space explorations and China space missions. Beihang University also provide Space Law and Policy, it's a great opportunity to study with high profile and expert in space law and policy here. The student will get the deep knowledge in law, space technologies and methodologies to make policy.



—Ms. ARPAWADEE NUNTREE, 2018 Space Law and Policy participant from Thailand

※About classmates and friends:

As the flagship University of China that gather all multi-racial and multi-cultural like Beihang University, it is unique in that we have a diverse student population on campus. With students and faculty members coming from 100 countries, there are a lot of opportunities for students to share ideas and interact with professors and students from different cultures. This could be one of the best ways to improve your foreign language. Sometimes some students are more fluent in Chinese, then you get have the chance to automatically learn Chinese as well. At Beihang, students here are very flexible and well-adapted, they are strongly encouraged to venture overseas – for internships, student exchange or community work. About 80 percent of my graduate peers have a significant study-abroad or working abroad experience. Living abroad in China with loads of international students from all around the globe is a life-changing experience for me. I learned to be independent and open-minded as I stretched myself to venture beyond what I thought I was capable of doing. I've also learned to cherish and appreciate my heritage and identity as a Thai citizen.



—Ms. SURUCCHAWADI SEWEEWANLOP, 2018 Space Law and Policy participant from Thailand

It is definitely a good experience. It let me know how people from other countries live and think. It also allowed myself to develop some tolerance and respect for their cultures and religions. In the study, I found that it is good to know space technologies in other countries, both developed or still developing ones.



—Mr. BEYMAR FERNANDO HUCHANI QUISBERT, 2018 RS&GIS participant from Bolivia

The best thing which I experienced here is the opportunity to live along with students from across the globe. Learning other cultures, lifestyles and working ethics gives exposure and makes us more educated in terms of communications and interactions. It is also a good source of joy and excitement. Students from different regions and cultures share their ideas and thoughts with each other and learn more to live and progress collectively.



—Mr. HASSAN ALI, 2018 RS&GIS participant from Pakistan

It has been a great experience! I have met people from so many different cultures and backgrounds. Now I consider myself to have wider knowledge and understanding about cultures, religions, history, traditions and thoughts from all around the World. I also could say that I became more tolerant and welcoming. Having cross-cultural discussions with my classmates have increased my knowledge and ideas in general aspects. I am glad that I met each one of my classmates.



—Ms. LINARES KATHERINE GREACE, 2018 Space Law and Policy participant from Peru

It is the great opportunity to learn culture, exchange knowledge and experience. We are respect to each other, we are friends with no boundary of culture, religion and language. We live together at Beihang University by support and encourage each other. We shared food, participated national event from other countries and sometime we visited local home. Living and studying with people from different countries helped me to understand verities of cultures and religions and love to live with diverse society.



—Ms. ARPAWADEE NUNTREE, 2018 Space Law and Policy participant from Thailand

✧About study:

The classes offered at Beihang University are intensive and carefully designed to expose students to range of courses covering necessary knowledge for each major. In my case, which is Space Law & Policy, the curriculum requires students to study both international and national aspects. The rigor curriculum also encourages

students to question relentlessly, think broadly, analyze problems carefully, and evaluate consequences. Students' classroom experiences will be augmented by a wide range of co-curricular activities such as workshops, international space law forums/ conferences and student organizations, as well as the virtually limitless opportunities we will have as members of the college residential community to study, talk, exercise and engage with one another and their faculty mentors. I personally really like the learning and teaching style offered here, as they will take place primarily in small, seminar-style classes, with a strong emphasis on intellectual engagement and interaction, thus fostering and encouraging the intellectual habits of curiosity, critical inquiry, and creative thinking in students.



I am very thankful for our coordinator who would try his best to find the best lecturer for each expertise in our legal studies to give us valuable lectures. It is not only limited within a classroom; we also get to work and interact with those highly qualified experts outside the classroom as we are living and working in the same industry. Therefore, the best part here is not only limited to "having the best lecture" but it extends to working connections that would eventually benefit national needs and ultimately, international cooperation.

—Ms. SURUCCHAWADI SEWEEWANLOP, 2018 Space Law and Policy participant from Thailand

The classes are of high level, very professional, although a bit fast-paced, although always meant to make the student better prepared. The best part of Beihang is that I met all of my expectations as a Master's degree aspirant.



—LINARES KATHERINE GREACE, 2018 Space Law and Policy participant from Peru

Compared to master programs, MASTA program is based on professional and technical activities which for me is the best part of studying in Beihang University. Opportunity to visit Technical centers, attend professional forums and meet with experts increased my knowledge, experience and thinking toward problem solving and contributing to society. Similarly, in classes, teachers taught us courses, in my case RS&GIS, which let us get understanding of our domain and be able to work more effectively. Frequent presentations, group activities, discussions, team projects and research work provided us opportunity to build up ourselves and exhibit our talents at various level. Along learning technical courses, another wonderful experience was learning Chinese Language, Chinese History and Chinese Culture.



—Mr. HASSAN ALI, 2018 RS&GIS participant from Pakistan



Additional words

This volume of News Letter covered the main works of the Centre from May to June, 2019, including Journey of Chinese Space and Culture 2019, Division Director of Department of International Cooperation, CNSA gave lectures to Centre participants and Workshop on the Application of Global Navigation Satellite Systems, etc.

New feature named “Messages from participants” has been added to this episode, which is feedback and messages of participants' life and study at Beihang University, hoping to provide useful information for new participants and promote further development of the Centre.

This year is the 5th anniversary of the Centre, and also the 70th anniversary of the founding of the People's Republic of China. The young Centre and the new China are forging ahead and developing together. The Centre is witnessing the historical feat of the great rejuvenation of the Chinese nation and is also reflecting China's role and contribution to the international community as a responsible country.

The development of the Centre is inseparable from the care and support of every leader, participant, enthusiastic and cooperative unit. We would like to extend our heartfelt thanks to every one of you and continued comments and suggestions are also welcomed. Thanks to you, we have new expectations.





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)