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Dean, International School, Beihang University Executive Director, the UN Regional Centre in China.

Sep. 12, 2019 Beijing, China



UNOOSA Structure



The Office is headed by a Director and has two sections: the Space Applications Section, which organizes and carries out the United Nations Programme on Space Applications, and the Committee, Policy and Legal Affairs Section, which provides substantive secretariat services to the Committee, its two subcommittees and its working groups. The Committee, Policy and Legal Affairs Section also prepares and distributes reports and publications on international space activities and on international space law.

Ms. Simonetta Di Pippo of Italy serves as Director of the Office since March 2014.

- Programme on Space Applications
- Regional Centre affiliated to the United Nations
- 3 Capacity Building Research



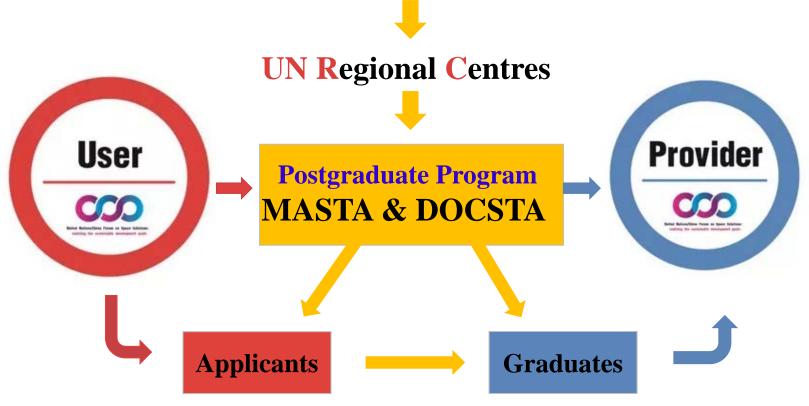


Programme on Space Applications



On January 7, 1970, First United Nations Expert on Space Applications appointed Humberto Ricciardi of Argentina became the first UN Expert on Space Applications, a post that was established within the Office for Outer Space Affairs as a result of UNISPACE I recommendation. Upon his proposal, the United Nations Programme on Space Applications was created in 1971 to provide technical assistance to developing countries in particular, in support of their national efforts to develop space activities.

UN Programme on Space Applications



Recommended by the space agencies of the Member States (MS).

Contribute to the development of space applications in the MS.

SUSTAINABLE GEALS

































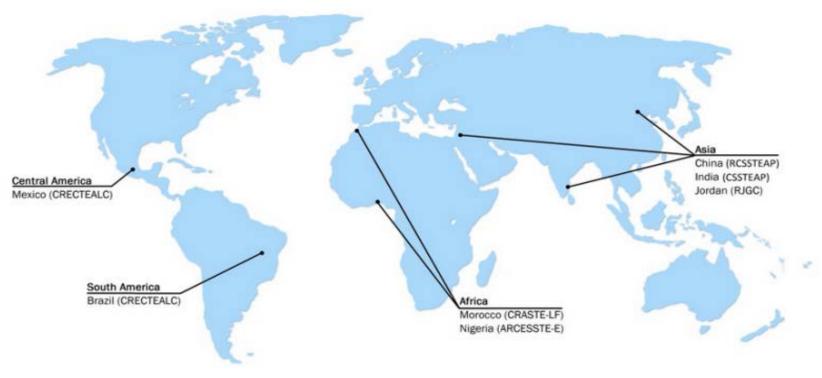






UNOOSA Regional Centre for Space

Regional Centres for Space Science and Technology Education (affiliated to the United Nations)



CSSTEAP India (inaugurated in 1995) CRASTE-LF Morocco (inaugurated in 1998)

ARCESSTE-E Nigeria (inaugurated in 1998)

CRECTEALC Mexico and Brazil (inaugurated in 2003) RCSSTEWA / RJGC Jordan (inaugurated on 29 May 2012) RCCSTEAP China (inaugurated in 2014)

73 countries among the 6 Regional Centres



Regional Centre for Space Science and Technology Education

in Asia and the Pacific (China) (Affiliated to the United Nations)

联合国附属空间科技教育亚太区域中心(中国)





















- The Establishment of RCSSTEAP: November 17, 2014
- Mission: Promoting the peaceful use of space technologies for the benefit of all humankind.
- Vision: Openness, Innovation, Inclusiveness
- Principle: Down to the Earth while Aiming High

2013.2

Application
Making a proposal at the 50th
session of Scientific and Technical
Subcommittee of UN COPUOS

2013.9

Passing Evaluation Mission by UNOOSA Expert Group (experts from Greece, India, Iran, Japan, Mexico, Pakistan)

2014.6

Attending the Director Meeting of UN-Regional Centres as an observer

2014.9

Organizing International Space Education Forum at the 65th International Astronautical Congress (IAC), Toronto

2014.11

The Inauguration Ceremony
The 1st Meeting of the Governing
Board

2013.6

Approved by the Subcommittee of COPUOS at the 56th session of COPUOS

2014.3

Approved by the State Council of China

2014.7

Organizing a training course for Morocco (CRASTE-LF)

2014.10

Signing agreements with contracting parties



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)

































Degree Programs and Short Training Programs



Master's
Program

260 in total, 21 countries, 159 participants have been granted Master's Degree

Doctoral Program 60 in total, 13 countries, 12
participants have been granted
Doctoral Degree

Short Training Programs

About 1500 in total, 68 countries

Short Training Programs in 2018



GNSS and BeiDou System Deep Understanding Training **Tunisia**, Apr. 11-13, 2018



Training on Space Cooperation for Global Health China, Apr. 12-26, 2018



CRASTE-LF & RCSSTEAP-China GNSS Workshop Morocco, Apr. 23-26, 2018



GNSS and BeiDou System Deep Understanding Training Sudan, Sept. 24-25, 2018



Short Training in Satellite Technology CRASTE-LF Morocco, Oct. 22-26, 2018



International Training Programme "Space based technology for emergency response" China, Oct. 28-Nov. 1, 2018

Outreach 2018







Poster Design Contest for China Space Day April, 2018



June, 2018











China Academy of Space Technology China Centre for Resources Satellite Data and Application







Shanghai Academy of Spaceflight Technology















eiDou Navigation Beijing UniStrong Satellite System Co., Ltd.

Beijing BDStar Navigation Co., Ltd.

ChinaRS Geoinformatics Co., Ltd.

Beijing Aerospace TITAN Technology Co., Ltd.

Twenty First Century Aerospace Technology Co., Ltd.







UN-SPIDER Beijing Office







Space Debris Observation and Data Application Center China National Space Administration



National Satellite Meteorological Center



Institute of Remote Sensing and Digital Earth



National Astronomical Observatories Chinese Academy of Sciences



National Time Service Center



Host Institution - Beihang University

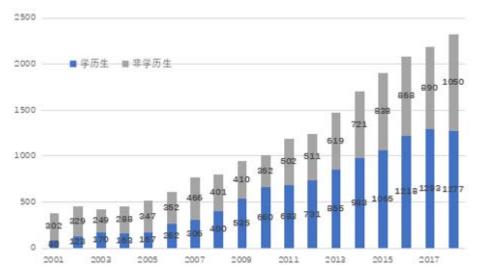


Beihang University was the first aerospace university in China established in 1952. It has been engaged in international space education with the support of CNSA since 2000.

Schools	31
State Key Laboratories	8
Undergraduate Programs	57
Master's Programs	144
D octoral Programs	49
Students	29,211
Undergraduates	15,620
Graduates	13,591
International students	2,367
Faculty & Staff	3,885







2200+ International Students in 2018







Quality assurance in Space Eduation/Training

UGII — Beihang Mode

U — Hosted by University

G—Supported by Chinese Government

I — Work with Related International Organizations

(UNOOSA, APSCO, etc.)

I ——Industry/Enterprise Participation





Alliance of Regional Centres for Space Science and Technology Education (affiliated to the United Nations)

A global network of partners to advance the new development of the UN "Programme on Space Applications"



the umbrella of UNOOSA













University Partners

Enterprise Partners



Alliance of Regional Centres (ARC)

We are committed to Space Education.



Member States of Each Regional Centre

Centres	Governing Board Members	UNOOSA Status
ARCSSTE-E 25	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 13	Algeria, Cameroon, Cabo Verde, Central African Republic, Democratic Republic of Congo, Côte d'Ivoire, Gabon, Mauritania, Morocco, Niger, Senegal, Togo and Tunisia	Observer
CRECTEALC 2	Brazil, Mexico	Observer
RCSSETWA 11	Egypt, Iraq, Jordan, Kuwait, Lebanon, Libya, State of Palestine, Sudan, Sultanate of Oman, Syria and Yemen	Observer
CSSTEAP 16	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 10	Algeria, Argentina, Bangladesh, Bolivia, Brazil, China, Indonesia, Pakistan, Peru and Venezuela	Observer

Programmes of Each Regional Centre

Centres Programme	ARCSSTE-E	CRASTE-LF	CRECTEALC	CSSTEAP	RCSSTEWA	RCSSTEAP
RS&GIS	v	V	V	v	V	V
SATCOM	V	· V	V	v	V	V
GNSS	V	V	V	V		V
Micro Sat. Tech./ Small Sat. Mission				v		V
Space Law and Policy			V	V		V
SAS & Space Sd.	V		v	v	v	
SATMET	V	v		v	v	



Glance of Each Regional Centre



ARCSSTE-E, inaugurated in 1998



CRECTE ALC, in augurated in 2003



RCSSTEWA, inaugurated in 2012



CRASTE-LF, inaugurated in 1998



CSSTEAP, inaugurated in 1995



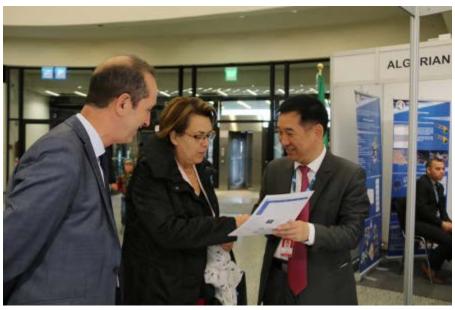
RCSSTEAP, inaugurated in 2014

Co-organized with UNOOSA, Meeting of the Directors of the UN Regional Centres was held on 13-14 June, 2017 at Vienna International Centre. To establish ARC- Alliance of Regional Centres was proposed.



Joint Exhibition during UNISPACE+50





June 2018, Vienna, Austria

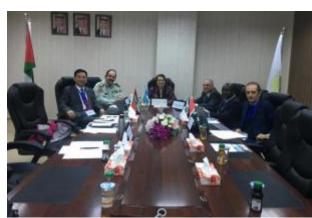
Meeting of the Directors



February 2018, Vienna, Austria



June 2018, Vienna, Austria



March 2019, Amman, Jordan

3

Capacity Building Index:

Efforts in China/Under Discussion

What is Capacity Building?

is the process by which individuals and organizations obtain, improve, and retain the skills, knowledge, tools, equipment and other resources needed to do their jobs competently or to a greater capacity (larger scale, larger audience, larger impact, etc.).

Problems with current capacity building efforts:

- links between needs and supply are weak;
- training institutions are isolated and communications are limited;
- insufficient development of teaching materials;
- alternative methods of capacity building are not adequately recognized;
- a lack of funding.

Education Capacity Building Index Framework

Evaluation indicators (Level I)	Evaluation indicators (Level II)		
	Qualified teachers		
Teacher team building	Management team		
	Invited experts		
700 1 4 44 44	Degree program		
Teaching activities	Training courses		
	Academic lectures		
	Professional visits		
T 6 4 4	School buildings		
Infrastructure construction	Teaching equipment		
	Experimental equipment		
	Educational platform		
Educational environment	Experimental teaching conditions		
	Practical teaching base		
	Website		
Information dissemination	Publications		
	Textbook & teaching materials		
	Government funding		
Finanical support	Social fund-raising		
	Crowdfunding		
	Collaborative projects funding		



It is easy to predict the future, if you invent it.

