Educational Training Program of RCSSTEAP in 2016

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February 23, 2016   Vienna, Austria

1 **B**ackground

2 **M**ajor Work in 2015

3 **P**rograms in 2016

4 **W**ay Forward

2nd Governing Boarding Meeting

Held on November 27th ,2015 in Beijing

Ten Contracting Parties

1 **B**ackground

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RCSSTEAP Main Work in 2015

Jan.
- Signed cooperation agreement with Shenzhou Institute of China Academy of Space Technology

Apr.
- Training program on Satellite Navigation Technologies was held

Jun.
- "Painting Exhibition on China's Space Exploration in Vienna International Center

Jul.
- 25 postgraduates graduated and granted the Master's Degree on space technology applications

Aug.
- Recruited 42 postgraduates on space technology applications

Sept.
- Training programs on "Earth observation technologies for earthquake damage and loss assessment" and "Space law and policy" were held at Beihang University

Oct.
- "RCSSTEAP No.1" Micro-Satellite Project Initiative was officially launched

International Experts in 2015

Kclause Schilling
Professor
German

Niklas Hedeman
Doctor
UNOOSA

Armel Kerrest
Professor
France

Stephan Hobe
Professor
Germany

Renato Filjar
Professor
Croatia

Macabiau Christophe
Doctor
France

Zhao yun
Professor
Hong kong

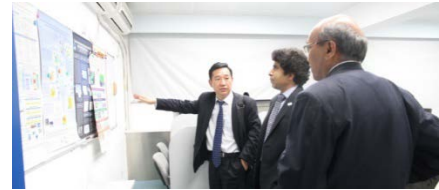**Joanne abrynowicz**
Professor
U.S.A

Andrea arringdon
Doctor
Canada

Ling Keck Voon
Professor
Singapore

Guests from CSSTEAP in India Visit RCSSTEAP

September 15th ,2015

Chinese Delegation Visit IIRS/CSSTEAP in India

January 4th-5th, 2016

Educational Training Program of RCSSTEAP in 2016

1 **B**ackground

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3.1 Degree Programs

Postgraduate Degree Education Programs

- Global Navigation Satellite System (GNSS) -2016

- Remote Sensing and GIS (RS &GIS) -2016

- Space Law and Policy -2016

Training Procedures of **Master's program**

Phase Ⅰ Course Study in China: 9 months (at Beihang University) (Leading to Course completion Certificate of Beihang University)				
Module Ⅰ		Module Ⅱ		Module Ⅲ
Common Platform Courses		● Major courses ● Academic Lectures ● Professional visits		● Pilot Project
Phase Ⅱ Thesis Research: 6-12 months (in China or home country) (Leading to Master's Degree in Engineering)				
Thesis Survey and Thesis Proposal	Midterm Assessment	Academic Activities	Thesis Research	Thesis Defense

The program will begin in September 2016.

3.1 Degree Programs

Global Navigation Satellite System (GNSS)

Core Courses	Class Hrs.
GNSS Reference System	18
Principle of Global Navigation Satellite Systems	32
GNSS Navigation Signal	18
GNSS Receiver Principles and Design	32
GNSS/INS Integration Navigation	32
Global Satellite Navigation System Applications	18
Satellite Navigation Data Processing	32
GNSS Experiment	18
GNSS New Technologies	18

System level

User level

Applications level

Operational level

- Duration:
9months + 1 year

09/2016 — 06/2018

3.1 Degree Programs

Capacity Building in GNSS

BeiDou Satellite Navigation System
Exhibition Hall (Located at Beihang
Aerospace Museum)

GNSS Smart Classroom

Experiment equipment

3.1 Degree Programs

Remote Sensing and GIS (RS &GIS)

Core Courses	Class Hrs.
Remote Sensing Image Visual Interpretation	16
Geographic Information System：Theory and Application	48
Physical Principles of Remote Sensing	32
Introduction to Photogrammetry	18
Remote Sensing Image Processing and Software Application	48
Remote Sensing Test and validation Workshop	16
Case Studies in the Applications of RS & GIS	18
Geographic Information System: Design and Practice	32
Natural Disaster Remote Sensing	18

Duration:

9 months + 1 year

09/2016 — 06/2018

3.1 Degree Programs

Capacity Building in RS&GIS

Ground Station for Remote Sensing
Satellite Data Receiving

Remote Sensing & Geographic
Information System Lab

Distance Education &
Video Conference Lab

3.1 Degree Programs

- Space Law and Policy -2016

Core Courses	Class Hrs.
Basic concepts of international law and space law	32
National Space Policy	16
National Space Legislation	32
Legal Issues related to RS&GIS	16
Legal Issues related to Satellite Communication	16
Legal Issues related to GNSS	16
Space commercialization and the development of Space Law	16
Policy and Legal Issues on Peaceful Use of Outer Space	4
Soft Law and new trend of Space Law	4
UNPSA and related legal Issues	4
Hot Topics on Space Technology Applications	4

Duration:

9 + 6 months

09/2016 — 12/2017

Space Law and Policy

Faculty and Academic Staff

- The experts will come from the related University and research institution, and the most famous space law research institution, including McGill University Institute of Air and Space Law, Cologne University Institute of Air and Space Law, Leiden University International Institute of Air and Space Law, etc.

3.1 Degree Programs

- **Scholarships**

We will offer 3 Chinese Government Scholarship quotas of our Post-graduate programs for UNCOPUS member states.

Please visit http://www.rcssteap.org for more details and contact with us at
Ms. Guo Yuanyuan
Email:gyy@buaa.edu.cn
Tel:+86(10)82339734

3.2 Short Training Programs

Will focus on the following topics:

- Beidou/GNSS technology and applications
- RS-GIS application on disaster management
- Small Satellite Technology

Jointly organize with our partners APSCO, UNSPIDER Beijing Office, BeiDou Office, NDRCC, CAST, SAST, etc.

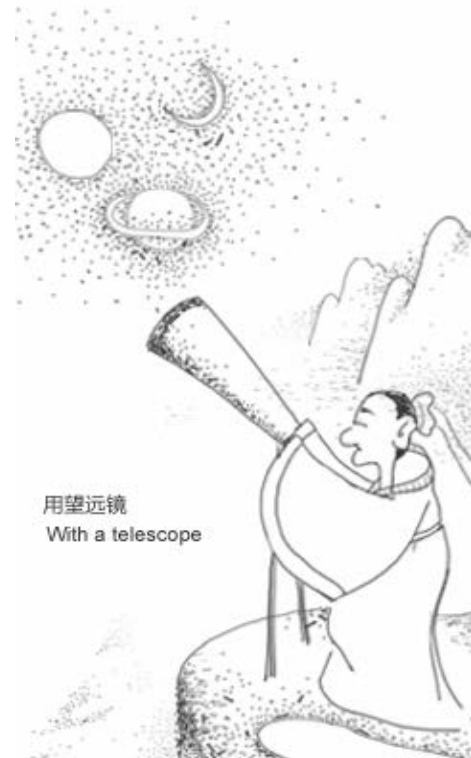**1** **B**ackground

2 **M**ajor Work in 2015

3 **P**rogram in 2016

4 **W**ay Forward

Way Forward

- To prompt students/faculty exchange and teaching resource sharing among the UN Regional Centres

- To deepen cooperation and development in education and research among our member countries to facilitate the "RCSSTEAP No.1 Small Satellite Project"

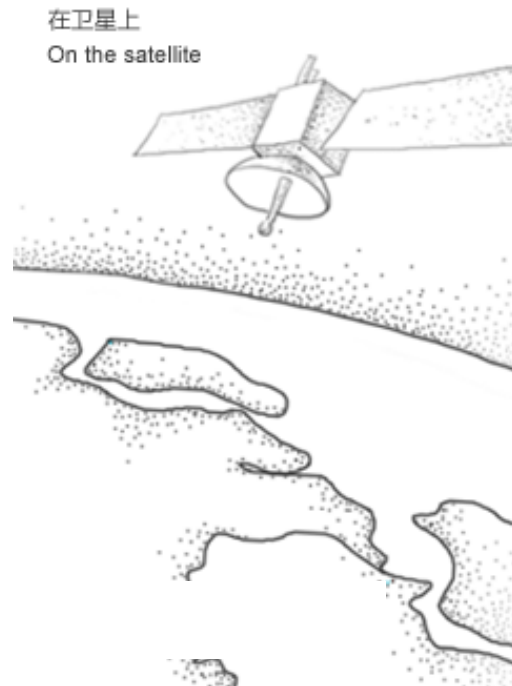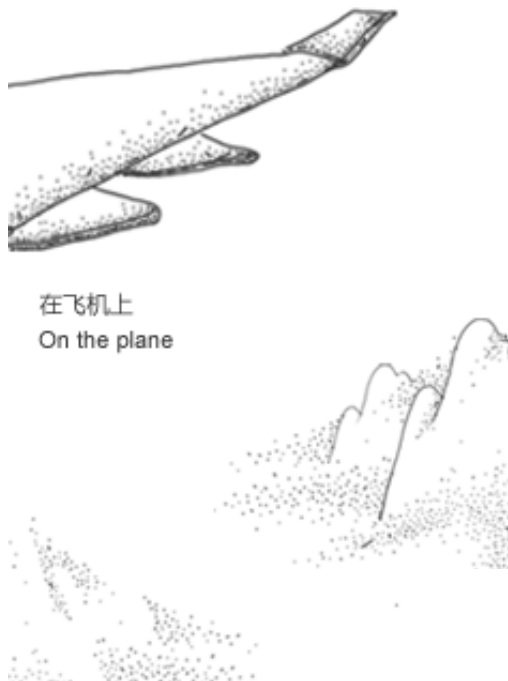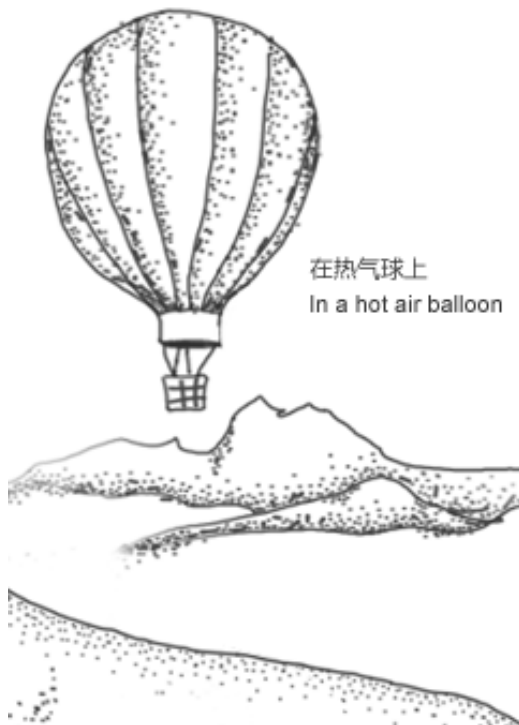- To Build an online education environment for Space application education

In ancient, people explore the earth by standing on the land

古人坐地观天

在地上
On the ground

在海边
At the seaside

用望远镜
With a telescope

Nowadays, we can explore the earth from the Sky

我们登天察地

在热气球上
In a hot air balloon

在飞机上
On the plane

在卫星上
On the satellite

Flying with the wings of art

Thank you for your attention

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