Activities of JAXA Space Education Center:

Achievements & Perspectives for International Cooperation

Presentation by Space Education Office Japan Aerospace Exploration Agency (JAXA)

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Goals of Space Education Center

Space education:

Development of human resources through pursuing truths and taking up challenges in the universe

Goals:

- 1) Nurture young people to acquire insights and develop a vision
 - Share the excitement of solving the mysteries of the universe and learning more about achievements in space activities.

2) Contribute to building the prosperous society

→Share with the public the knowledge and skills acquired through the use and exploration of space.

Principles of JAXA Education Activities

①Understanding of the thinking process <u>behind</u> the knowledge ☆Joy of exploring mysteries of life, the nature and the universe ☆ " Importance of life"

②Increasing appreciation of "Science and Technology" ☆Important process of the development of a human being ☆Mastering the logical thinking process ☆Spirit of "Never Give Up"

③Understanding the importance of contributing to building better future

☆Responsibility as a member of the society

Priority Activities of the Space Education Center



Education Support Activities

Supporting classroom teaching by working closely with schools and teachers



	Elementary	Junior-High	High
	School	School	School
FY16	0 School	2 schools	7 schools
(04-05)	(0 student)	(ca. 180 students)	(ca. 210 students)
FY17 (05-06)	1 school (30 students)	5 schools (ca. 1200 students)	14 schools (ca. 360 students)









Hands-on Training Activities: Achievements in FY 2005 (April'05-Mar'06)

Structure of the Cosmic College





Hands-on Activities "Cosmic College"



To increase interest in science & technology

To help form groups of young people fond of science and technology

>To guide young people to think and solve questions by themselves

>To encourage collaborations with others

To lead young people to appreciate the importance of life



Restructuring "Cosmic College"

Education Support (teachers/leaders)



Hands-on training



Leaders Seminar and Training (Certificates for teachers and leaders)

"SPACE SCHOOL" (Correspondence course)

New Cosmic College

(Home learning +Schooling)

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Education support system





International Cooperation through Space Education:Global Framework

★International Space Education Board (ISEB)

- ☆Initiative by advanced spacefaring countries: CSA, ESA, JAXA, NASA
 - Established on 17 October 2005 to:
 - i) increase science, technology, engineering and mathematics literacy achievement in connection with space;
 - ii) support the future workforce needs of space programs



International Cooperation through Space Education:Global Framework



International Cooperation through Space Education:Regional framework



International Cooperation through Space Education:Regional framework

★Cooperation with other regions through their focal points

 Project/Activity-based
 In response to requests, offers of opportunities/invitations
 ☆ European Space Agency
 → "Science on Stage": exchange of teaching methods among teachers
 ☆ Space Conference of the Americas

→ Support organizing hands-on activities, e.g. water rocket activities

AUSTRALASIA

→ Assist in linking Japanese universities with space education activities

with interested entries in Latin America (e.g. Cubesat) →Providing advice on introc ing space education activities

EUROPE

ASIA

AFRICA/MIDEAST

International Space Education and Training Opportunities

★International Astronautical Congress (IAC)

- **Student and Youth Participation Program**
 - Support to the winners of Asian round of IISL Space Law Moot Court Competition
 - International Student Zone (ISZ)
 - CanSat Activities

★International Space University (ISU)

- ☆JAXA Fellowship
 - Summer Session Program (SSP)
 - Master course programs (MSS/MSM)

Realigning International Activities

- More links with the Center's efforts to train leaders and teachers to carry out space education activities
 - Fellowships for ISU Programme Participants
 - Selection of students for IAC Student Programme
- More focus on activities that could support the existing frameworks for cooperation: UN/OOSA, UNESCO, ISEB, APRSAF, ESA, C.E.A., etc.
 - Supporting UNISEC activities (e.g. CanSat)
 - Disseminating instructive materials in demand (e.g. DVD on Water Rocket Activities)
 - Disseminating the compilation of samples of hands-on experiments



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