# Inspiring young people to build a better society for a better future: goals and principles

## Activities of JAXA Space Education Center

Presentation by T. Chiku
Space Education Office
Japan Aerospace Exploration Agency

14 October 2005, Fukuoka, Japan UN/IAF Workshop on "Space Education and Capacity Building for Sustainable Development"

## **Mission Statement**

JAXA established its Space Education Center to:

- "Assist young people to have broad minds and insights for a better future"
- -Using JAXA's knowledge and techniques acquired through the exploration and use of outer space.
- -Focusing on support for teachers in their classrooms at primary and secondary schools.

## ORGANIZATIONAL FACTS

**Establishment of the Space Education Office: 1 May 2005** 

**Opening day of the Space Education Center: 19 May 2005** 

Location: Sagamihara, Kanagawa

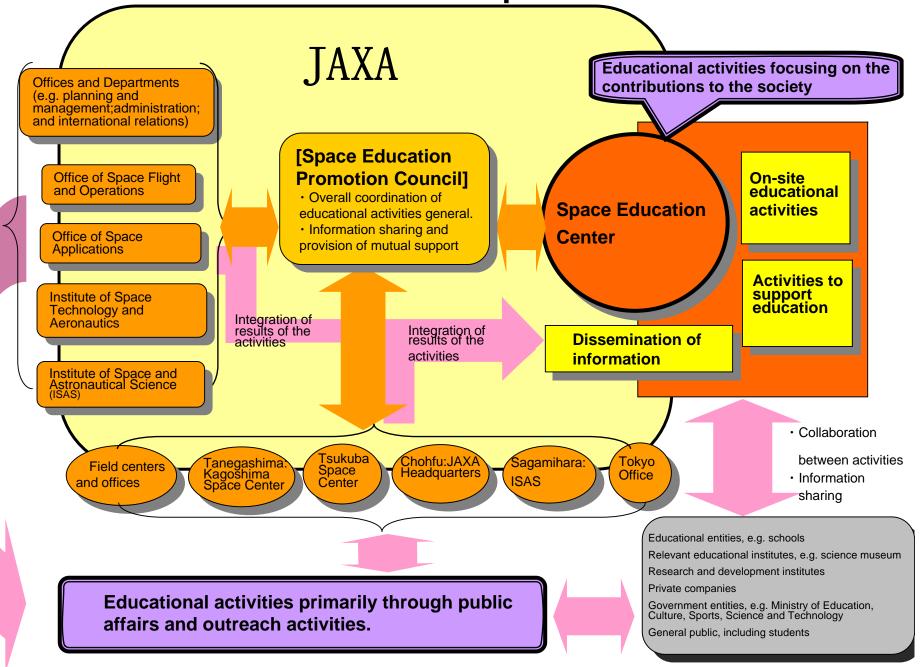
Management: Yasunori Matogawa, Associate Executive Director

**Director of the Space Education Center;** 

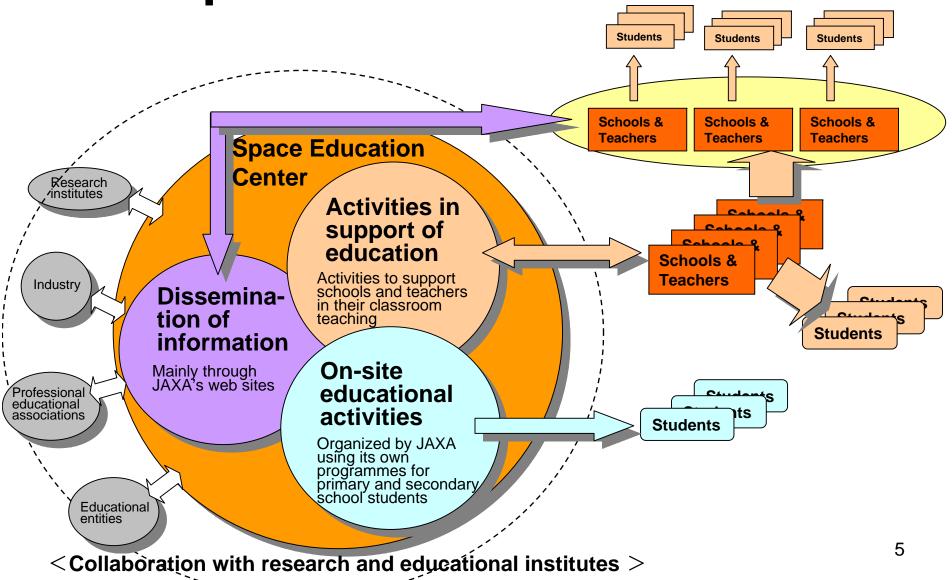
Katsumi Watanabe, Director, Space Education Office;

**Staff of the Space Education Office: 9 staff members** 

#### **JAXA Education Activities and Space Education Center**



Activities of the Space Education Center



## Principles of JAXA Education Programmes

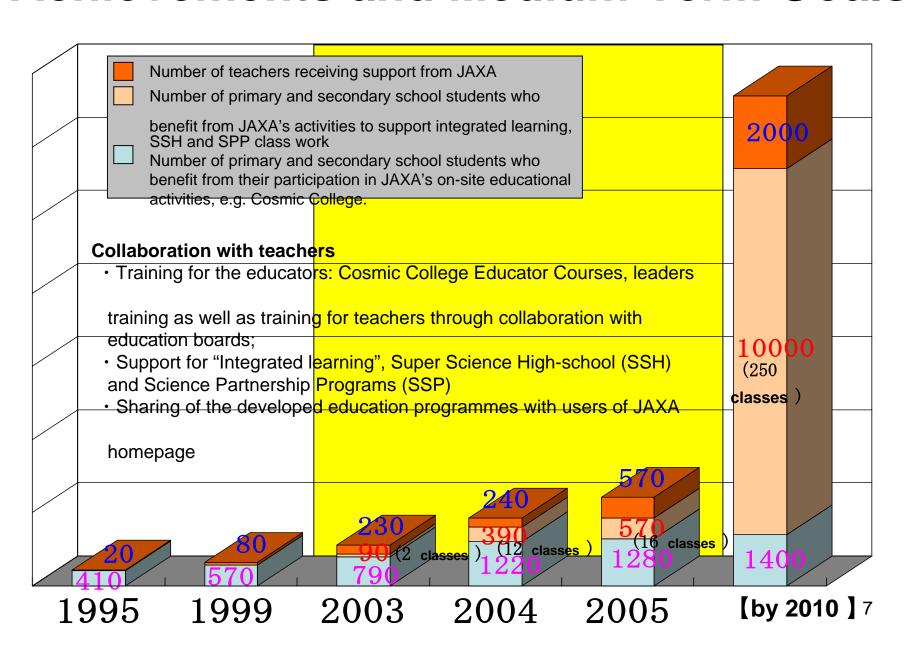
- ①Understanding of the thinking process <u>behind</u> the knowledge
   ☆Unknowns of the nature and its exciting features
   ☆ "Importance of life"
- ②Increasing appreciation of "Science" and "Technology"
   ☆As an important part of acquiring insight
   ☆Mastering the scientific and logical thinking process
   ☆Spirit of "Never Give Up"
- 3 Increasing awareness of the importance of contributing to "building

a prosperous future"

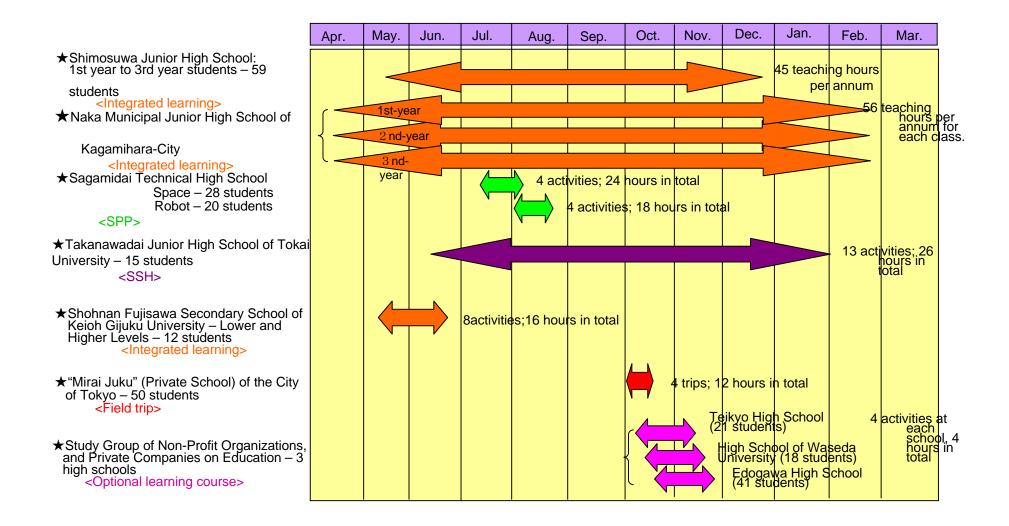
☆Responsibility as a member of the society

☆Importance of contributing to the society

## **Achievements and Medium-Term Goals**

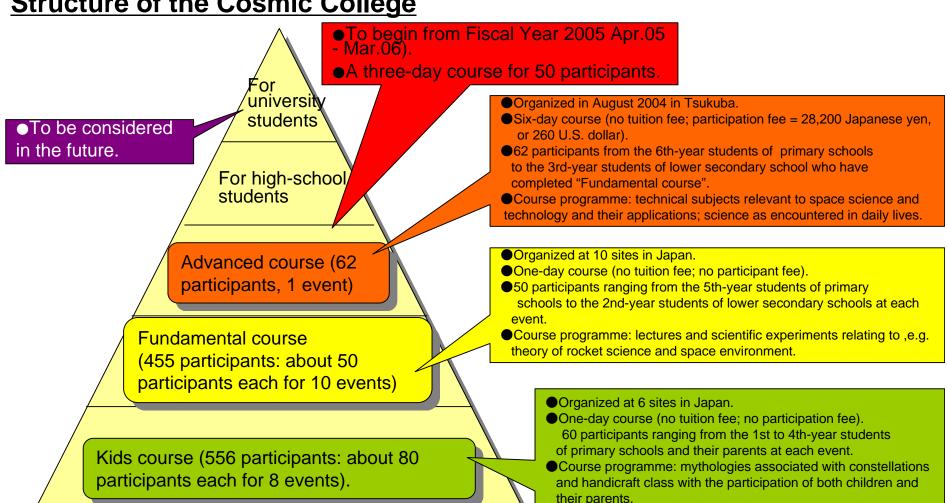


## Activities in Support of Education: Achievements (Year 2004)



## On-Site Educational Activities: Achievements FY 2004 (Apr.04-Mar.05)

#### **Structure of the Cosmic College**



## **Education support system**

Classrooms of primary and secondary schools

Boards of Education

Relevant educational entities

Knowledgesharing Development of programmes

Science museumsSelf-governing bodies

Knowledgesharing

- Publishers of textbooks
- Companies of educational materials and supplies

Provision of opportunities for educational activities

Provision of opportunities for educational activities

#### Space science

- Origin of the universe
- Galaxy, solar system, stars
- National Institutes of Natural Sciences (incld observatories)
- High Energy Accelerator Research Organization
- National Institute for Materials
   Science

## Space Education Center

#### Development of programmes throug collaboration with classrooms

- ②Knowledge sharing through collaboration with research institutes
  - 3 Provision of opportunities through collaboration with educational entities

Knowledgesharing

## Arts and philosophies

- Arts and space
   Thought and
- National Institute for the Humanities
- National Museum
- National Research Institute for Cultural Properties
- National Museum of Art

## Space development

- Humanity and space
- Launch vehicles, satellites, astronauts
- National Institute of Information and Communications Technology
- National Institute of Advanced
   Industrial Science and Technology
- Relevant commercial companies

## System of collaboration with research institutes

#### Life science

- Space and life
- Mysteries of life
- JT Bio history Research Hall
- RIKEN (Institute of Science and Chemistry)
- National Science Museum

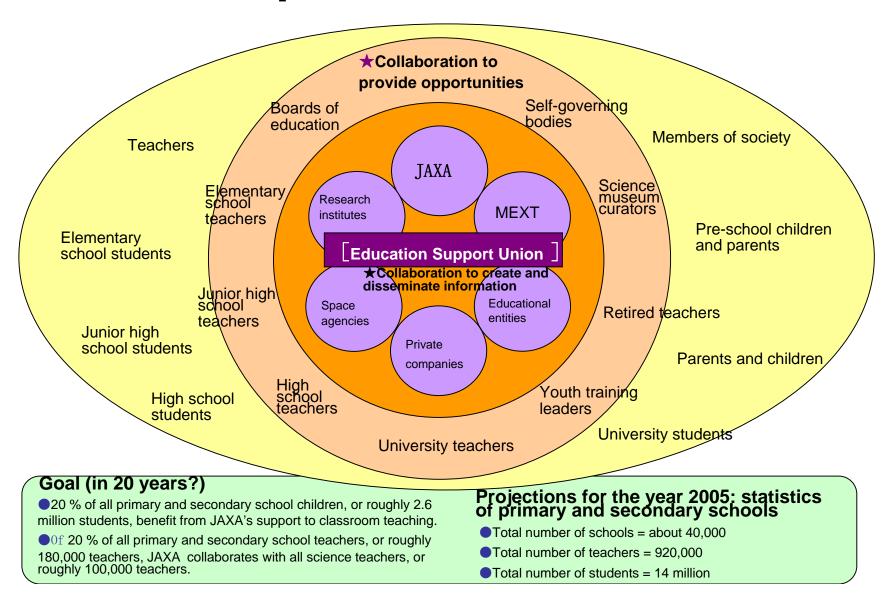
### Earth and environment

- Earth environment and ecosystem
  - Life and images from satellites
- National Institute for Environmental
- Japan Agency for Marine-Earth Science and Technology
- New Energy and Industrial Technology Development Organization
- National Institute for the Humanities

### Civilization and races

- Evolution of cosmology
- Mythologies, constellations
- National Institute for the Humanities
- National Institute of Natural Sciences incld. observatories)
- National Science Museum
- National Museum

## System for supporting education: Goal of Space Education Center



## International cooperation to promote space education

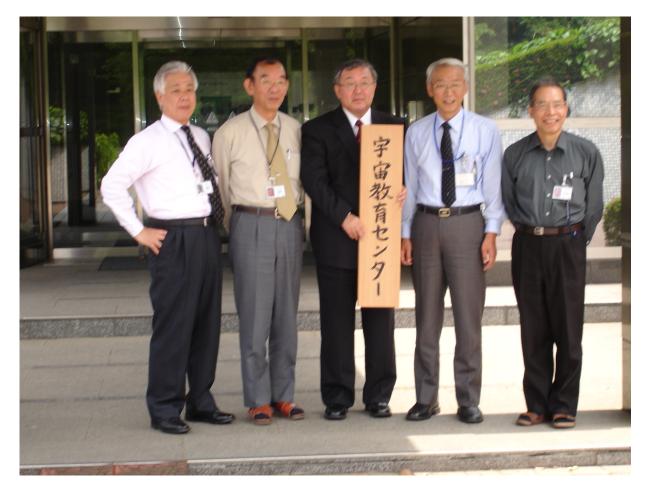
★12th Session of the Asia-Pacific Regional Space Agency Forum (APRSAF): 11-13 October 2005, Kitakyushu, Japan Space Education and Awareness Working Group Water-Boosted Rocket Competition, 15 October 2005

- **★**International Space Education Board
  - **☆ CSA, ESA, JAXA and NASA**
- ☆ Objectives: i) To increase science, technology, engineering and mathematics literacy achievement in connection with space; ii) to support the future workforce needs of space programs.
  - **☆ Main areas of activities:** 
    - Exchange of information and materials;
    - Joint education programs and projects;
    - Exchange programs for students, educators or researchers;
    - Dissemination of best practices of effective education programs.
    - ☆ Membership: any public organisation implementing space activities and pursuing an education program.

Signing event: Monday, 17 October 2005, 18:00 hrs. Fukuoka International Congress Center, Room 501

## International cooperation to promote space education

- **★International Astronautical Congress (IAC):**
- 17-21 October 2005, Fukuoka, Japan
  - **☆Student and Youth Participation Program: 16-22 October 2005** 
    - JAXA sponsored 99 Japanese students and 2 students from Singapore (IISL Space Law Moot Court Competition)
    - International Student Zone (ISZ): Posters, Presentations
    - Tree Workshop: student discussions on i) World Heritage and Natural Preservation; ii) Natural Disaster Monitoring; iii) Manned spaceflight and exploration; iv) Space education and awareness
    - CANSAT Activities
    - Student Plenary Session: Friday, 21 October, 14:00 hrs.
- **★International Space University** 
  - **☆JAXA Fellowship for Summer Session Program 2006 and Master course programs (MSS/MSM) for 2006/2007**



For further information and contact: Space Education Office:

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