

The 31st Session of the Asia-Pacific Regional Space Agency Forum (APRSAF-31) Space Education for All Working Group (SE4AWG)

Concept Paper

1. Objectives

The Space Education for All Working Group (SE4AWG) aims to:

- i) cultivate the ability to see things from a global perspective, to help confront and solve the urgent problems that our planet faces, and ensure the sustainable use of space,
- ii) consider how to utilize the knowledge and technology gained through scientific research and share recent developments and practices of space education,
- iii) foster a sense of adventure and creativity using space missions' characteristic of breaking new ground,
- iv) build momentum for space education worldwide,
- v) improve current space education practices by understanding diversity and inclusion, and
- vi) provide a unique platform in which high-level speakers share their perspectives on space education policies and practices.

2. History

The SE4AWG was originally established as the “Space Education and Awareness” Working Group in 2001 and became the “Space Education” Working Group in 2014. In 2021, it was renamed to the current “Space Education for All” Working Group, which has developed into a forum to exchange information on educational activities and discuss how to provide space education and training opportunities. Its scope of activities ranges from primary education and secondary and higher education to adult education in formal and informal settings.

The working group began hosting the APRSAF Poster Contest from 2006 onwards and the Space Education Seminar/Workshop for Educators from 2009.

3. Main Activities of this Year's SE4AWG Session

This year, we welcome presentations on the following topics:

(1) Space Education for All: Everyone from Primary to Higher Education
As we develop educational programs and materials related to space, SE4AWG is reflecting on educational support for children. To stimulate their intellectual curiosity, we discuss how best to utilize candidates set to play leading roles in STEM fields in various countries. In this session, we also will discuss examples of project-based education on space engineering and share news and information on recent educational activities in the Asia Pacific region and elsewhere. Presenters will also introduce new pedagogy and educational materials.

(2) Space Education Regional Congress

To acknowledge and promote optimal space education policies and practices worldwide, we aim to expand our knowledge on space education and facilitate further development of various educational programs in the Asia-Pacific region. Having well-educated professionals is a must to ensure both the emergence and long-term prosperity of a strong regional space sector. Emphasizing the importance of space education at all levels, we will have talks from high-level speakers of space agencies and organizations in the region.

(3) Youth Empowerment

SE4AWG will have a session on activities for young people involved in space education. The purpose of this session is to have young people promote their own activities and for them to interact and collaborate with educators and researchers.

(4) Diversity and Inclusion in Space Education

As our working group is titled Space Education for “All,” we would like to broaden our scope to cover topics on diversity and inclusion. Large gender gaps exist in the space sector, particularly in the Asian Pacific region and few practices relate directly to inclusion in space education. We aim to share current practices and discuss issues regarding diversity and inclusion in space education.

(5) CanSat Competition and Poster Contest

SE4AWG will conduct the APRSAF CanSat Competition in July, 2025. In this session, we will announce the result of the competition and discuss how we can organize it more effectively next year.

We will also discuss the activity result and the next theme of the Poster Contest.

4. Agenda

Co-Chairs: * Jasmine Angelie V. Albelda, Science Research Specialist, Space Education and Scholarship Division, PhilSA
* Fumiaki Tanigaki, Director, Space Education Center, JAXA

Day 1: November 18 (Tuesday) AM

➤ Primary and Secondary Education

	Time	Subject
1	9:00-9:10	Opening of the session Adoption of the agenda
2	9:10-11:55	Space Education for All Part 1 Primary and Secondary Education
3	11:55-12:00	Announcement and report from Poster Contest

Day 1: November 18 (Tuesday) PM

➤ Higher Education

	Time	Subject
4	13:00-14:25	Space Education for All Part 2: Higher Education Session

➤ CanSat Competition

	Time	Subject
5	14:30-15:50	CanSat Competition Results and Discussion
6	15:50-16:00	Wrap up of Day 1 and Announcement for Day 2

Day 2: November 19 (Wednesday) AM

➤ Regional Space Education Congress

	Time	Subject
7	9:00-9:15	Introduction
8	9:15-12:00	Keynote Expert speakers from space agencies on space education

Day 2: November 19 (Wednesday) PM

- Activities for Youth Empowerment
- Diversity and Inclusion in Space Education
- SE4AWG Activities

	Time	Subject
9	13:00-14:00	Activities for Youth Empowerment - Student Speakers
10	14:00-15:00	Diversity and Inclusion in Space Education - Diversity Speakers - Inclusion Speakers
11	15:00-15:50	Poster Contest Results and Discussion SE4AWG Activity Reports and Summary
12	15:50-16:00	Closing Remark