



The 9th ASEAN Student Science Project Competition, ASPC 2023

1. Event Outline

Currently, technology and innovation has been rapidly developing and greater effected on social, industry, and economic. Youths are the important person who will drive the development of technology and innovation in the future. Therefore, it is necessary to develop youths in critical knowledge and skills in science, technology, engineering, and mathematics – the essential building blocks of “21st Century Skills” which will help propel communities and nations into future prosperity.

Engaging youths in science projects are one of the most effective ways to support and develop youths in important skills in scientific processes not only for Thai youths but also including ASEAN youths. Science projects essentially stimulate four major aspects in 21st Century Skills, namely learning and creativity skills, communication and collaboration skills, critical thinking skills, and life skills. Learning and creativity help students solve problems in their everyday life. Skills in communication and collaboration enrich their career opportunities. Critical thinking enables them to form judgement based on unbiased interpretation and analysis of facts. Life skills advance their general qualities in flexibility, leadership, as well as social participation and responsibility. At the international level, science project competitions also promote the cross-border collaboration in knowledge and cultural exchange among nations.

To realize this vision, National Science Museum Thailand (NSM), the Ministry of Higher Education, Science, Research and Innovation, in collaboration of the Science Society of Thailand Under Royal Patronage of His Majesty the King (SST) have organized the annual ASEAN Student Science Project Competition (ASPC) since 2015. ASPC has since become a leading ASEAN network of knowledge and cultural exchange which stimulates talent students and teachers in their pursuit of scientific excellence. This year, NSM and SST welcome selected representatives of grade 9 – 12 students from ASEAN members to the 9th ASEAN Student Science Project Competition (ASPC 2023), to be held in the NSM complex in Pathum Thani, Thailand.



2. Objective

2.1 To stimulate and promote ASEAN youths to have science processes skills through science project competitions

2.2 To promote and develop the development of 21st Century Skills in ASEAN youths

2.3 To build the network of experience and cultural exchange for ASEAN students and teachers

3. Target group

11 ASEAN member states, namely Thailand, Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Vietnam, and Timor-Leste

3.1 Students grade 9 – 12

3.2 Science teachers

4. Date

January – August 2023

5. Process of Implementation

5.1 NSM and SST review the result of ASPC 2022 and plan for ASPC 2023

5.2 Publicize the competition through

5.2.1 Facebook: NSM Thailand, Science Society of Thailand and ASPC – ASEAN Student Science Project Competition

5.2.2 Website : <https://www.nsm.or.th> and <https://www.scisoc.or.th>

5.2.3 Project coordinators in 11 ASEAN members

5.3 Competition registration and distribution of first circular (overview of project criteria, preliminary program, event outline and registration form)

5.4 Distribution of second circular (overall schedule, contact details and flight itinerary)

5.5 Dissemination of final circular (official invitation letters, full event program and list of participants' preparation)

5.6 Organization of the event at NSM complex (the competition consists of three categories, namely physical sciences, biological sciences and applied sciences)

5.7 Project review and evaluation



6. Project evaluation

By the survey of satisfaction and suggestion from participants

7. Organizing committee

7.1 National Science Museum Thailand (NSM)

7.2 The Science Society of Thailand Under Royal Patronage of His Majesty the King (SST)

8. Expected outcome

8.1 ASEAN youths are encouraged to develop skills in scientific processes, as well as in the creation of science projects, inventions or innovations which can be utilized in daily life.

8.2 21st Century Skills are promoted in ASEAN youths.

8.3 The ASEAN network of students and teachers of science are created.

9. Program

Table 1 Overall program of the 9th ASPC

| | Activity | Date |
|---|---|-----------------|
| 1 | Project PR | 1 January 2023 |
| 2 | Registration and distribution of first circular | 1 February 2023 |
| 3 | Registration closed | 26 May 2023 |
| 4 | Distribution of second circular | 1 June 2023 |
| 5 | Distribution of final circular | 16 June 2023 |
| 6 | Organization of competition | 1 – 5 July 2023 |
| 7 | Review and evaluation of ASPC 2023 | August 2023 |



Table 2 Preliminary program of ASPC 2023 (1 – 5 July 2023)

| Date | Activity |
|-------------|--|
| 1 July 2023 | Participants arrive at NSM complex / installation of science projects / opening ceremony / welcoming party |
| 2 July 2023 | Project presentation |
| 3 July 2023 | Cultural visit |
| 4 July 2023 | ASEAN youth activities (walk rally, cultural night, and farewell party) |
| 5 July 2023 | Award announcement / closing ceremony / participants depart |

Note: Program may be subject to change

Criteria of Competition

The 9th ASEAN Student Science Project Competition (ASPC 2023)

1. Participants

- 1.1 Students grade 9 – 12 or equivalent, at the time of the competition date
- 1.2 Under 20 years of age
- 1.3 Registered in schools in ASEAN countries, or invited countries
- 1.4 Adequate proficiency in English

2. Science projects

- 2.1 Submitted projects must be fit in the following categories:
 - Physical sciences
 - Biological sciences
 - Applied sciences
- 2.2 Each project can have the maximum of two students and two teachers/advisors.
- 2.3 Each country can send a total of six science projects at a maximum.

3. Registration of projects

Registration of projects starts from 1 February 2023, and is closed in 26 May 2023.

Projects must be submitted via Email: aspc2Thailand@gmail.com



(please cc Patcharaporn@nsm.or.th and Kittapard@nsm.or.th).

For further enquiry, please call (+66)2 577 9999 ext. 1746 (Patcharaporn) or 1794 (Kittapard)

4. Registration fee

100 USD per project (equivalent to 3,500 TH Baht as of 5 December 2022)

5. Criteria of competition

The decision of the judging committee is based on:

5.1 Overall merit of projects

- Application of skills in scientific processes
- Demonstration of the sufficient understanding of relevant knowledge and project specifics

project specifics

- Adequate record of project data
- Values to science and society
- Creative thinking

5.2 Project presentation

- Use of proper format of presentation
- Features of presentation
- Use of satisfactory language and scientific terminology
- Reference/Biography

6. Awards

| | Award | Grant (TH Baht) | Medal | Certificate | No. of Award |
|---|--------------------------|--------------------|-------|-------------|---------------------|
| 1 | Project of the Year 2023 | 20,000 | / | / | 1 |
| 2 | First Prize | 15,000 | / | / | 1 for each category |
| 3 | First Runner-Up | 10,000 | / | / | 1 for each category |
| 4 | Second Runner-Up | 8,000 | / | / | 1 for each category |
| 5 | Consolation Prize | 2,000 | | | 2 for each category |

Note: Awards may be subject to change